



KEYSTONE CERTIFICATIONS, INC.
 145 LIMEKILN RD, SUITE 100B
 NEW CUMBERLAND, PA 17070
 PHONE: 717-932-8500

Notice of Product Certification Authorization

National Fenestration Rating Council

Issued To:

Manufacturer: American Window Alliance
 Address: 1600 North Jackson Avenue
 Kansas City MO 64120
 Man'f Code AMW
 Cert Date: 7/23/2002

Certification Number

1616

Product Line Number

AMW - K - 004

Revision Date

8/7/2017

The Following NFRC Product Line Has Been Authorized For Certification:

Model / Series: Windgate/Belmont/Hawthorne 2-Lite Slider
 Operator Type: HSXX
 Frame Type: VY,VF
 Sash Type: VI,VY,VV
 Exp. Date: 4/25/2022

Ratings Authorized For Certification:

Rating	Property	Authorized
NFRC 100	U-factor	<input checked="" type="checkbox"/>
NFRC 200	Solar Heat Gain Coefficient	<input checked="" type="checkbox"/>
NFRC 200	Visible Light	<input checked="" type="checkbox"/>
NFRC 400	Air Leakage	<input checked="" type="checkbox"/>
NFRC 500	Condensation Resistance	<input checked="" type="checkbox"/>

Fenestration products are not NFRC Certified unless manufactured and labeled in accordance with the current version of NFRC-700, Product Certification Program requirements.

***This is a cover sheet for an NFRC Certification Authorization Report (CAR)
 the corresponding CAR may be downloaded for printing at www.nfrc.org.
 The Manufacturer is authorized to label the options listed in the corresponding CAR.
 Please notify Keystone of any errors or omissions within 10 days of receipt.***

Due diligence was used in authorizing these products for certification. By accepting this report the licensee agrees to hold harmless and indemnify Keystone Certifications, Inc. from all claims or liabilities which may arise based on this certification authorization. Certification authorization is based on NFRC program requirements and simulation and test reports from accredited laboratories.

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4			IA: Keystone Certifications, Inc.												
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	04188-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VY	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	46
	04188-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VY	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	46
	04188-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VY	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	46
	04189-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VY	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	45
	04189-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VY	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	45
	04189-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VY	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	45
	04190-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VY	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	45
	04190-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VY	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	45
	04190-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VY	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	45
	04191-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VY	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	45
	04192-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VY	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	44

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Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04192-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VY	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	44	
	04192-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VY	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	44	
	04192-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VY	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	44	
	04193-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VY	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	44	
	04193-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VY	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	44	
	04193-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VY	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	44	
	04193-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VY	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	44	
	04194-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VY	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	53	
	04194-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VY	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	53	
	04195-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VY	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	53	
	04195-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VY	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	53	

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CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04196-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / air / clr (SS/SS) 3/4"" IG"	VY/VY	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.54	59	
	04196-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / air / clr (SS/SS) 3/4"" IG"	VY/VY	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.48	59	
	04196-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / air / clr (SS/SS) 3/4"" IG"	VY/VY	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.48	59	
	04196-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VY/VY	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.35	0.54	59	
	04196-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VY/VY	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.32	0.48	59	
	04196-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VY/VY	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.32	0.48	59	
	04197-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VY/VY	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.54	62	
	04197-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VY/VY	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.26	0.48	62	
	04197-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VY/VY	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.48	62	
	04197-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VY/VY	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.36	0.54	62	
	04197-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VY/VY	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.48	62	

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VR (Enhanced Screen):

CPD Number: AMW-K-4 IA: Keystone Certifications, Inc.

Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	04197-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VY	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.48	62
	04198-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VY	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.53	58
	04198-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VY	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.47	58
	04198-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VY	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.47	58
	04198-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VY	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.35	0.53	58
	04198-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VY	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.31	0.47	58
	04198-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VY	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.31	0.47	58
	04199-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VY	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.53	62
	04199-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VY	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.25	0.47	62
	04199-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VY	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	62
	04199-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VY	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.53	62

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	04199-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VY	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.47	62	
	04199-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VY	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	62	
	04200-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.33	0.52	59	
	04200-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	59	
	04200-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.28	0.52	59	
	04200-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	59	
	04201-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	59	
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	04202-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VY	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.24	0.42	68	

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CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04202-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VY	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	68	
	04203-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VY	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.22	0.37	68	
	04203-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VY	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.22	0.37	68	
	04204-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VY	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.21	0.50	59	
	04204-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VY	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	59	
	04204-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VY	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	59	
	04204-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VY	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.50	59	
	04204-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VY	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	59	
	04204-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VY	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	59	
	04205-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VY	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.50	63	
	04205-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VY	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	63	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04205-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VY	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	63	
	04205-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VY	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.50	63	
	04205-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VY	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	63	
	04205-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VY	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	63	
	04206-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VY	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.21	0.49	58	
	04206-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VY	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	58	
	04206-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VY	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	58	
	04206-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VY	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.49	58	
	04206-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VY	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	58	
	04206-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VY	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	58	
	04207-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VY	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04207-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VY	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	62	
	04207-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VY	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	62	
	04207-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VY	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	62	
	04207-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VY	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	62	
	04207-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VY	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	62	
	04208-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	60	
	04208-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	60	
	04208-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	60	
	04208-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	60	
	04209-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.43	60	
	04209-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.43	60	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04209-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VY	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.19	0.43	60	
	04209-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VY	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.19	0.43	60	
	04210-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VY	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.19	0.36	68	
	04210-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VY	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	68	
	04211-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VY	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.17	0.32	68	
	04211-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VY	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	68	
	04212-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VY/VY	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.54	59	
	04212-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VY/VY	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.48	59	
	04212-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VY/VY	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.48	59	
	04212-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VY/VY	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.37	0.54	59	
	04212-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VY/VY	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.48	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04212-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VY	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.48	59	
	04213-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VY	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.54	62	
	04213-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VY	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.48	62	
	04213-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VY	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.48	62	
	04213-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VY	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.38	0.54	62	
	04213-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VY	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.34	0.48	62	
	04213-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VY	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.34	0.48	62	
	04214-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VY	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	58	
	04214-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VY	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	58	
	04214-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VY	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	58	
	04214-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VY	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04214-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VY	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	58	
	04214-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VY	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	58	
	04215-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VY	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.53	62	
	04215-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VY	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.47	62	
	04215-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VY	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.47	62	
	04215-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VY	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.37	0.53	62	
	04215-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VY	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.33	0.47	62	
	04215-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VY	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.33	0.47	62	
	04216-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.35	0.52	59	
	04216-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	59	
	04216-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.52	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04216-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	59	
	04217-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	59	
	04217-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	59	
	04217-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	59	
	04217-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	59	
	04218-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VY	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.26	0.42	68	
	04218-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VY	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	68	
	04219-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VY	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.23	0.37	68	
	04219-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VY	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	68	
	04220-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VY	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.51	0.62	57	
	04220-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VY	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.46	0.55	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04220-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VY/VY	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.46	0.55	57	
	04220-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VY/VY	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.54	0.62	57	
	04220-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VY/VY	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.49	0.55	57	
	04220-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VY/VY	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.49	0.55	57	
	04221-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VY/VY	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.62	61	
	04221-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VY/VY	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.46	0.55	61	
	04221-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VY/VY	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.46	0.55	61	
	04221-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VY/VY	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.62	61	
	04221-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VY/VY	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.49	0.55	61	
	04221-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VY/VY	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.49	0.55	61	
	04222-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VY/VY	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.51	0.61	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04222-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VY	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.45	0.55	56	
	04222-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VY	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.45	0.55	56	
	04222-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VY	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.53	0.61	56	
	04222-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VY	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.48	0.55	56	
	04222-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VY	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.48	0.55	56	
	04223-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VY	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.61	60	
	04223-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VY	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.45	0.55	60	
	04223-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VY	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.45	0.55	60	
	04223-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VY	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.61	60	
	04223-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VY	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.48	0.55	60	
	04223-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VY	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.48	0.55	60	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04224-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	58	
	04224-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	58	
	04224-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	58	
	04224-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	58	
	04225-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.44	0.54	58	
	04225-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	58	
	04225-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.45	0.54	58	
	04225-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	58	
	04226-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VY	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	66	
	04226-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VY	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	66	
	04227-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VY	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.41	0.50	66	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04227-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VY	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	66	
	04228-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VY	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.61	0.63	44	
	04228-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VY	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.54	0.56	44	
	04228-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VY	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.54	0.56	44	
	04229-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VY	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	44	
	04229-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VY	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	44	
	04229-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VY	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	44	
	04230-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VY	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	43	
	04230-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VY	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43	
	04230-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VY	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	43	
	04231-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VY	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04232-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VY	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	42	
	04232-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VY	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	04232-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VY	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	42	
	04232-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VY	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	04233-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VY	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	42	
	04233-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VY	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	
	04233-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VY	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	42	
	04233-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VY	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	04234-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VY	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.38	0.55	0.58	52	
	04234-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VY	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52	
	04235-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VY	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.39	0.49	0.52	52	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04235-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VY	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	52	
	04236-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VY	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.54	56	
	04236-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VY	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.48	56	
	04236-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VY	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.48	56	
	04236-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VY	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.35	0.54	56	
	04236-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VY	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.32	0.48	56	
	04236-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VY	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.32	0.48	56	
	04237-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VY	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.54	59	
	04237-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VY	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.26	0.48	59	
	04237-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VY	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.48	59	
	04237-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VY	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.36	0.54	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04237-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VY/VY	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.32	0.48	59	
	04237-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VY/VY	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.48	59	
	04238-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VY/VY	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.53	55	
	04238-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VY/VY	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.47	55	
	04238-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VY/VY	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.47	55	
	04238-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VY/VY	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.35	0.53	55	
	04238-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VY/VY	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.31	0.47	55	
	04238-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VY/VY	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.31	0.47	55	
	04239-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VY/VY	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.53	58	
	04239-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VY/VY	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.25	0.47	58	
	04239-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VY/VY	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04239-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VY	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.53	58	
	04239-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VY	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.47	58	
	04239-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VY	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	58	
	04240-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.33	0.52	56	
	04240-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	56	
	04240-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.28	0.52	56	
	04240-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	56	
	04241-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.30	0.47	56	
	04241-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.30	0.47	56	
	04241-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.25	0.47	56	
	04241-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.25	0.47	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04242-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VY	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.24	0.42	65	
	04242-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VY	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	65	
	04243-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VY	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.22	0.37	65	
	04243-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VY	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.22	0.37	65	
	04244-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VY	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.21	0.50	56	
	04244-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VY	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.19	0.44	56	
	04244-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VY	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.19	0.44	56	
	04244-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VY	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.50	56	
	04244-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VY	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.44	56	
	04244-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VY	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.44	56	
	04245-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VY	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.50	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04245-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VY	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	59	
	04245-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VY	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	59	
	04245-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VY	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.50	59	
	04245-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VY	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	59	
	04245-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VY	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	59	
	04246-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VY	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.21	0.49	55	
	04246-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VY	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.19	0.44	55	
	04246-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VY	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.19	0.44	55	
	04246-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VY	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.49	55	
	04246-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VY	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.44	55	
	04246-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VY	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.44	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04247-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VY	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.49	59	
	04247-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VY	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	59	
	04247-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VY	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	59	
	04247-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VY	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.49	59	
	04247-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VY	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	59	
	04247-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VY	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	59	
	04248-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.48	56	
	04248-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	56	
	04248-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.21	0.48	56	
	04248-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	56	
	04249-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.43	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04249-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): lami / arg / E366 (DS 090 DS DS) 3/4"" IG"	VY/VY	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.43	56	
	04249-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / arg / lami (DS DS 090 DS) 3/4"" IG"	VY/VY	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.19	0.43	56	
	04249-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / arg / lami (DS DS 090 DS) 3/4"" IG"	VY/VY	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.19	0.43	56	
	04250-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (SS-D)"	VY/VY	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.19	0.36	66	
	04250-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (SS-D)"	VY/VY	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	66	
	04251-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (SS-D)"	VY/VY	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.17	0.32	66	
	04251-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (SS-D)"	VY/VY	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.17	0.32	66	
	04252-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / clr (SS/SS) 3/4"" IG"	VY/VY	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.61	0.63	44	
	04252-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / clr (SS/SS) 3/4"" IG"	VY/VY	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.54	0.56	44	
	04252-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / clr (SS/SS) 3/4"" IG"	VY/VY	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.54	0.56	44	
	04253-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / clr (DS DS) 3/4"" IG"	VY/VY	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.59	0.62	43	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04253-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (DS/DS) 3/4"" IG"	VY/VY	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.53	0.56	43	
	04253-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (DS/DS) 3/4"" IG"	VY/VY	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.53	0.56	43	
	04254-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (5mm/DS) 3/4"" IG"	VY/VY	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	43	
	04254-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (5mm/DS) 3/4"" IG"	VY/VY	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43	
	04254-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (5mm/DS) 3/4"" IG"	VY/VY	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	43	
	04255-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr (5mm/DS) 3/4"" IG"	VY/VY	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	43	
	04256-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VY	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	42	
	04256-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VY	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	04256-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VY	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	42	
	04256-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VY	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	04257-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VY	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	04257-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VY	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42
	04257-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	42
	04257-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42
	04258-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VY	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.38	0.55	0.58	51
	04258-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VY	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	51
	04259-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VY	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.39	0.49	0.52	51
	04259-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VY	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	51
	04260-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VY	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.30	0.54	55
	04260-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VY	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.27	0.48	55
	04260-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VY	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.27	0.48	55
	04260-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VY	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.37	0.54	55

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04260-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VY/VY	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.33	0.48	55	
	04260-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VY/VY	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.33	0.48	55	
	04261-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VY/VY	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.30	0.54	58	
	04261-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VY/VY	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.48	58	
	04261-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VY/VY	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.48	58	
	04261-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VY/VY	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.38	0.54	58	
	04261-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VY/VY	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.34	0.48	58	
	04261-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VY/VY	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.34	0.48	58	
	04262-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VY	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.53	53	
	04262-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VY	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.47	53	
	04262-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VY	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.47	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04262-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VY	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.37	0.53	53	
	04262-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VY	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.47	53	
	04262-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VY	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.47	53	
	04263-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VY	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.53	56	
	04263-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VY	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.47	56	
	04263-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VY	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.47	56	
	04263-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VY	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.37	0.53	56	
	04263-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VY	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.33	0.47	56	
	04263-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VY	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.33	0.47	56	
	04264-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.35	0.52	55	
	04264-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04264-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.29	0.52	55	
	04264-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	55	
	04265-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.32	0.47	55	
	04265-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.32	0.47	55	
	04265-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.26	0.47	55	
	04265-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.26	0.47	55	
	04266-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VY	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.26	0.42	62	
	04266-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VY	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	62	
	04267-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VY	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.23	0.37	62	
	04267-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VY	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.23	0.37	62	
	04268-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VY	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.51	0.62	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4 IA: Keystone Certifications, Inc.

Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	04268-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VY/VY	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.46	0.55	53
	04268-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VY/VY	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.46	0.55	53
	04268-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VY/VY	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.54	0.62	53
	04268-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VY/VY	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.49	0.55	53
	04268-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VY/VY	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.49	0.55	53
	04269-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VY/VY	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.51	0.62	56
	04269-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VY/VY	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.46	0.55	56
	04269-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VY/VY	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.46	0.55	56
	04269-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VY/VY	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.54	0.62	56
	04269-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VY/VY	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.49	0.55	56
	04269-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refoj No Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VY/VY	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.49	0.55	56

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04270-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VY	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.51	0.61	52	
	04270-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VY	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.45	0.55	52	
	04270-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VY	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.45	0.55	52	
	04270-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VY	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.53	0.61	52	
	04270-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VY	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.48	0.55	52	
	04270-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VY	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.48	0.55	52	
	04271-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VY	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.51	0.61	55	
	04271-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VY	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.45	0.55	55	
	04271-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VY	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.55	55	
	04271-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VY	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.54	0.61	55	
	04271-00005	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VY	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.48	0.55	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04271-00006	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VY	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.48	0.55	55	
	04272-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.49	0.60	54	
	04272-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	54	
	04272-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.50	0.60	54	
	04272-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	54	
	04273-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.34	0.44	0.54	54	
	04273-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VY	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.34	0.44	0.54	54	
	04273-00003	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.34	0.45	0.54	54	
	04273-00004	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VY	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.34	0.45	0.54	54	
	04274-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VY	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.26	0.45	0.56	61	
	04274-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VY	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	61	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	04275-00001	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VY	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.27	0.41	0.50	61		
	04275-00002	"141.094/142.094/148.094 HS / Opt 1 (No Refo No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VY	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.27	0.41	0.50	61		
	04276-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	45		
	04276-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	45		
	04276-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	45		
	04277-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	45		
	04277-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	45		
	04277-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	45		
	04278-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	44		
	04278-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	44		
	04278-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04279-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	44	
	04280-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	43	
	04280-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	43	
	04280-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	43	
	04280-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	43	
	04281-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	43	
	04281-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	43	
	04281-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	43	
	04281-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	43	
	04282-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	53	
	04282-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04283-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	53	
	04283-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	53	
	04284-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.29	0.54	58	
	04284-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.48	58	
	04284-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.48	58	
	04284-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.35	0.54	58	
	04284-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.32	0.48	58	
	04284-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.32	0.48	58	
	04285-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.54	62	
	04285-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.26	0.48	62	
	04285-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.48	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04285-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.36	0.54	62	
	04285-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.48	62	
	04285-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.48	62	
	04286-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.53	57	
	04286-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.47	57	
	04286-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.47	57	
	04286-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.35	0.53	57	
	04286-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.31	0.47	57	
	04286-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.31	0.47	57	
	04287-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.53	61	
	04287-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.25	0.47	61	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04287-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	61	
	04287-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.53	61	
	04287-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.47	61	
	04287-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	61	
	04288-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.33	0.52	59	
	04288-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	59	
	04288-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.28	0.52	59	
	04288-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	59	
	04289-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	59	
	04289-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	59	
	04289-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04289-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	59	
	04290-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.24	0.42	67	
	04290-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	67	
	04291-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.22	0.37	67	
	04291-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.22	0.37	67	
	04292-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.21	0.50	58	
	04292-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	58	
	04292-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	58	
	04292-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.50	58	
	04292-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04292-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	58	
	04293-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.50	62	
	04293-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	62	
	04293-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	62	
	04293-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.50	62	
	04293-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	62	
	04293-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	62	
	04294-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.21	0.49	58	
	04294-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	58	
	04294-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	58	
	04294-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.49	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04294-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	58	
	04294-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	58	
	04295-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	61	
	04295-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	61	
	04295-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	61	
	04295-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	61	
	04295-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	61	
	04295-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	61	
	04296-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	59	
	04296-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	59	
	04296-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04296-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	59	
	04297-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.43	59	
	04297-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.43	59	
	04297-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.19	0.43	59	
	04297-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.19	0.43	59	
	04298-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.19	0.36	67	
	04298-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	67	
	04299-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.17	0.32	67	
	04299-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.17	0.32	67	
	04300-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.54	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04300-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.48	58	
	04300-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.48	58	
	04300-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.37	0.54	58	
	04300-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.48	58	
	04300-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.48	58	
	04301-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.54	62	
	04301-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.48	62	
	04301-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.48	62	
	04301-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.38	0.54	62	
	04301-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.34	0.48	62	
	04301-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.34	0.48	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04302-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	57	
	04302-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	57	
	04302-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	57	
	04302-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	57	
	04302-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	57	
	04302-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	57	
	04303-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.53	61	
	04303-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.47	61	
	04303-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.47	61	
	04303-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.37	0.53	61	
	04303-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.33	0.47	61	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04303-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.33	0.47	61	
	04304-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.35	0.52	59	
	04304-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	59	
	04304-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.52	59	
	04304-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	59	
	04305-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	59	
	04305-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	59	
	04305-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	59	
	04305-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	59	
	04306-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.26	0.42	67	
	04306-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	67	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.				
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	04307-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.23	0.37	67		
	04307-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	67		
	04308-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.51	0.62	57		
	04308-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.46	0.55	57		
	04308-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.46	0.55	57		
	04308-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.54	0.62	57		
	04308-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.49	0.55	57		
	04308-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.49	0.55	57		
	04309-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.62	60		
	04309-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.46	0.55	60		
	04309-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.46	0.55	60		

NFRC Product Certification Authorization Report



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City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04309-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.62	60	
	04309-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.49	0.55	60	
	04309-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.49	0.55	60	
	04310-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.51	0.61	56	
	04310-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.45	0.55	56	
	04310-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.45	0.55	56	
	04310-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.53	0.61	56	
	04310-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.48	0.55	56	
	04310-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.48	0.55	56	
	04311-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.61	59	
	04311-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.45	0.55	59	

NFRC Product Certification Authorization Report



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VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04311-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.45	0.55	59	
	04311-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.61	59	
	04311-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.48	0.55	59	
	04311-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.48	0.55	59	
	04312-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	57	
	04312-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	57	
	04312-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	57	
	04312-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	57	
	04313-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.44	0.54	57	
	04313-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.44	0.54	57	
	04313-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.45	0.54	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04313-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.45	0.54	57	
	04314-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	66	
	04314-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	66	
	04315-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.41	0.50	66	
	04315-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	66	
	04316-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.61	0.63	44	
	04316-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.54	0.56	44	
	04316-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.54	0.56	44	
	04317-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.59	0.62	43	
	04317-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.53	0.56	43	
	04317-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.53	0.56	43	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04318-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	43	
	04318-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43	
	04318-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	43	
	04319-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43	
	04320-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	42	
	04320-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	04320-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	42	
	04320-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	04321-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	42	
	04321-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	
	04321-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04321-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	04322-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.38	0.55	0.58	52	
	04322-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52	
	04323-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.39	0.49	0.52	52	
	04323-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	52	
	04324-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.54	55	
	04324-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.48	55	
	04324-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.48	55	
	04324-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.35	0.54	55	
	04324-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.32	0.48	55	
	04324-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.32	0.48	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04325-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.54	59	
	04325-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.26	0.48	59	
	04325-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.48	59	
	04325-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.36	0.54	59	
	04325-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.32	0.48	59	
	04325-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.48	59	
	04326-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.53	55	
	04326-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.47	55	
	04326-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.47	55	
	04326-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.35	0.53	55	
	04326-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.31	0.47	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04326-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.31	0.47	55	
	04327-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.53	58	
	04327-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.25	0.47	58	
	04327-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	58	
	04327-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.35	0.53	58	
	04327-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.32	0.47	58	
	04327-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.47	58	
	04328-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.33	0.52	56	
	04328-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	56	
	04328-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.28	0.52	56	
	04328-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04329-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.30	0.47	56	
	04329-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.30	0.47	56	
	04329-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.25	0.47	56	
	04329-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.25	0.47	56	
	04330-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.24	0.42	65	
	04330-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	65	
	04331-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.22	0.37	65	
	04331-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.22	0.37	65	
	04332-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.21	0.50	56	
	04332-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.19	0.44	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04332-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.19	0.44	56	
	04332-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.50	56	
	04332-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.44	56	
	04332-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.44	56	
	04333-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.50	59	
	04333-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.19	0.44	59	
	04333-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.44	59	
	04333-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.30	0.50	59	
	04333-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.44	59	
	04333-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.44	59	
	04334-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.21	0.49	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04334-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.19	0.44	55	
	04334-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.19	0.44	55	
	04334-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.49	55	
	04334-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.44	55	
	04334-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.44	55	
	04335-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.49	58	
	04335-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	58	
	04335-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	58	
	04335-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.49	58	
	04335-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	58	
	04335-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04336-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.48	56	
	04336-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	56	
	04336-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.21	0.48	56	
	04336-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	56	
	04337-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.26	0.43	56	
	04337-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.26	0.43	56	
	04337-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.19	0.43	56	
	04337-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.19	0.43	56	
	04338-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (SS-D)"	VY/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.19	0.36	65	
	04338-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (SS-D)"	VY/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	65	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	04339-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.17	0.32	65		
	04339-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.17	0.32	65		
	04340-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.61	0.63	44		
	04340-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.54	0.56	44		
	04340-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.54	0.56	44		
	04341-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.59	0.62	43		
	04341-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.53	0.56	43		
	04341-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.53	0.56	43		
	04342-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.62	42		
	04342-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42		
	04342-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04343-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4"" IG"	VY/VI	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	04344-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.48	0.55	0.61	42	
	04344-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	
	04344-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.48	0.57	0.61	42	
	04344-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	04345-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	42	
	04345-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	
	04345-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	42	
	04345-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	04346-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.39	0.55	0.58	50	
	04346-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	50	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04347-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.39	0.49	0.52	50	
	04347-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	50	
	04348-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.30	0.54	54	
	04348-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.27	0.48	54	
	04348-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.27	0.48	54	
	04348-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.37	0.54	54	
	04348-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.33	0.48	54	
	04348-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.33	0.48	54	
	04349-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.30	0.54	57	
	04349-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.48	57	
	04349-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.48	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04349-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.38	0.54	57	
	04349-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.34	0.48	57	
	04349-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.34	0.48	57	
	04350-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.53	53	
	04350-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.47	53	
	04350-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.47	53	
	04350-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.37	0.53	53	
	04350-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.47	53	
	04350-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.47	53	
	04351-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.53	56	
	04351-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.47	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04351-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.47	56	
	04351-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.37	0.53	56	
	04351-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.33	0.47	56	
	04351-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.33	0.47	56	
	04352-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.35	0.52	55	
	04352-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	55	
	04352-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.29	0.52	55	
	04352-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	55	
	04353-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.32	0.47	55	
	04353-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.32	0.47	55	
	04353-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.26	0.47	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04353-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.26	0.47	55	
	04354-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.26	0.42	62	
	04354-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	62	
	04355-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.23	0.37	62	
	04355-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.23	0.37	62	
	04356-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.51	0.62	53	
	04356-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.46	0.55	53	
	04356-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.46	0.55	53	
	04356-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.54	0.62	53	
	04356-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.49	0.55	53	
	04356-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.49	0.55	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04357-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.51	0.62	56	
	04357-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.46	0.55	56	
	04357-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.46	0.55	56	
	04357-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.54	0.62	56	
	04357-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.49	0.55	56	
	04357-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.49	0.55	56	
	04358-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.51	0.61	52	
	04358-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.45	0.55	52	
	04358-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.45	0.55	52	
	04358-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.53	0.61	52	
	04358-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.48	0.55	52	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04358-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.48	0.55	52	
	04359-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.51	0.61	55	
	04359-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.45	0.55	55	
	04359-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.55	55	
	04359-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.54	0.61	55	
	04359-00005	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.48	0.55	55	
	04359-00006	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.48	0.55	55	
	04360-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.33	0.49	0.60	53	
	04360-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.44	0.54	53	
	04360-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.33	0.50	0.60	53	
	04360-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.45	0.54	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04361-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.34	0.44	0.54	53	
	04361-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.34	0.44	0.54	53	
	04361-00003	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.34	0.45	0.54	53	
	04361-00004	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.34	0.45	0.54	53	
	04362-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.26	0.45	0.56	61	
	04362-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	61	
	04363-00001	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.27	0.41	0.50	61	
	04363-00002	"141.094/142.094/148.094 HS / Opt 2 (ALU Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.27	0.41	0.50	61	
	04364-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.61	0.63	45	
	04364-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.54	0.56	45	
	04364-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.54	0.56	45	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04365-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.59	0.62	45	
	04365-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.53	0.56	45	
	04365-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.53	0.56	45	
	04366-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	44	
	04366-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	44	
	04366-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44	
	04367-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	44	
	04368-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	43	
	04368-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	43	
	04368-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	43	
	04368-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	43	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04369-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	43	
	04369-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	43	
	04369-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	43	
	04369-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	43	
	04370-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.38	0.55	0.58	53	
	04370-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	53	
	04371-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.39	0.49	0.52	53	
	04371-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	53	
	04372-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4"" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.29	0.54	58	
	04372-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4"" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.48	58	
	04372-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4"" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.48	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
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City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04372-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.35	0.54	58	
	04372-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.32	0.48	58	
	04372-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.32	0.48	58	
	04373-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.54	61	
	04373-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.26	0.48	61	
	04373-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.48	61	
	04373-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.36	0.54	61	
	04373-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.32	0.48	61	
	04373-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.48	61	
	04374-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.29	0.53	57	
	04374-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.47	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04374-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.47	57	
	04374-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.35	0.53	57	
	04374-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.31	0.47	57	
	04374-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.31	0.47	57	
	04375-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.53	61	
	04375-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.25	0.47	61	
	04375-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	61	
	04375-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4"" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.53	61	
	04375-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4"" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.47	61	
	04375-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4"" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	61	
	04376-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.33	0.52	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04376-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	58	
	04376-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.28	0.52	58	
	04376-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	58	
	04377-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.30	0.47	58	
	04377-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.30	0.47	58	
	04377-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.25	0.47	58	
	04377-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.25	0.47	58	
	04378-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.24	0.42	66	
	04378-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.22	0.37	66	
	04379-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.22	0.37	66	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	04379-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.22	0.37	66		
	04380-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.21	0.50	58		
	04380-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.19	0.44	58		
	04380-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.19	0.44	58		
	04380-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.30	0.50	58		
	04380-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.44	58		
	04380-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.44	58		
	04381-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.50	62		
	04381-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	62		
	04381-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	62		
	04381-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.50	62		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04381-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	62	
	04381-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	62	
	04382-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.21	0.49	57	
	04382-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	57	
	04382-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	57	
	04382-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.49	57	
	04382-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	57	
	04382-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	57	
	04383-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.49	61	
	04383-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	61	
	04383-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	61	

NFRC Product Certification Authorization Report



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Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04383-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.49	61	
	04383-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	61	
	04383-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	61	
	04384-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.48	59	
	04384-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	59	
	04384-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.21	0.48	59	
	04384-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	59	
	04385-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.43	59	
	04385-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.43	59	
	04385-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.19	0.43	59	
	04385-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.19	0.43	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.				
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	04386-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.19	0.36	67		
	04386-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	67		
	04387-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.17	0.32	67		
	04387-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.17	0.32	67		
	04388-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.30	0.54	58		
	04388-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.48	58		
	04388-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.48	58		
	04388-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.37	0.54	58		
	04388-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.48	58		
	04388-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.48	58		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04389-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.30	0.54	61	
	04389-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.48	61	
	04389-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.48	61	
	04389-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.38	0.54	61	
	04389-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.34	0.48	61	
	04389-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.34	0.48	61	
	04390-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.30	0.53	57	
	04390-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.47	57	
	04390-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.47	57	
	04390-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.37	0.53	57	
	04390-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.47	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4			IA: Keystone Certifications, Inc.												
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	04390-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.47	57
	04391-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.53	61
	04391-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.47	61
	04391-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.47	61
	04391-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.37	0.53	61
	04391-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.33	0.47	61
	04391-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.33	0.47	61
	04392-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.35	0.52	58
	04392-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	58
	04392-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.52	58
	04392-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	58

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04393-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.32	0.47	58	
	04393-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.32	0.47	58	
	04393-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.26	0.47	58	
	04393-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.26	0.47	58	
	04394-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.26	0.42	66	
	04394-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	66	
	04395-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.23	0.37	66	
	04395-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.23	0.37	66	
	04396-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.34	0.51	0.62	56	
	04396-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.34	0.46	0.55	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04396-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.34	0.46	0.55	56	
	04396-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.34	0.54	0.62	56	
	04396-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.34	0.49	0.55	56	
	04396-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.34	0.49	0.55	56	
	04397-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.62	60	
	04397-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.46	0.55	60	
	04397-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.46	0.55	60	
	04397-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.62	60	
	04397-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.49	0.55	60	
	04397-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.49	0.55	60	
	04398-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.51	0.61	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04398-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.45	0.55	56	
	04398-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.45	0.55	56	
	04398-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.53	0.61	56	
	04398-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.48	0.55	56	
	04398-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.48	0.55	56	
	04399-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.61	59	
	04399-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.45	0.55	59	
	04399-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.55	59	
	04399-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.61	59	
	04399-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.48	0.55	59	
	04399-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.48	0.55	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04400-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.49	0.60	57	
	04400-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	57	
	04400-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.50	0.60	57	
	04400-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	57	
	04401-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.44	0.54	57	
	04401-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.44	0.54	57	
	04401-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.45	0.54	57	
	04401-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.45	0.54	57	
	04402-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4"" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.26	0.45	0.56	65	
	04402-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4"" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	65	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	04403-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.27	0.41	0.50	65		
	04403-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.27	0.41	0.50	65		
	04404-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.61	0.63	44		
	04404-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.54	0.56	44		
	04404-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.54	0.56	44		
	04405-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.59	0.62	43		
	04405-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.53	0.56	43		
	04405-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.53	0.56	43		
	04406-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.62	43		
	04406-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	43		
	04406-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	43		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04407-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	43	
	04408-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.48	0.55	0.61	42	
	04408-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	
	04408-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.48	0.57	0.61	42	
	04408-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	04409-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.49	0.49	0.55	42	
	04409-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.49	0.49	0.55	42	
	04409-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.49	0.51	0.55	42	
	04409-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.49	0.51	0.55	42	
	04410-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.39	0.55	0.58	52	
	04410-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	52	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04411-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.40	0.49	0.52	52	
	04411-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.40	0.49	0.52	52	
	04412-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.33	0.29	0.54	55	
	04412-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.26	0.48	55	
	04412-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.26	0.48	55	
	04412-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.33	0.35	0.54	55	
	04412-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.32	0.48	55	
	04412-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.32	0.48	55	
	04413-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.28	0.54	58	
	04413-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.48	58	
	04413-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.48	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04413-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.36	0.54	58	
	04413-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.32	0.48	58	
	04413-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.48	58	
	04414-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.33	0.29	0.53	54	
	04414-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.26	0.47	54	
	04414-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.26	0.47	54	
	04414-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.33	0.35	0.53	54	
	04414-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.31	0.47	54	
	04414-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.31	0.47	54	
	04415-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.53	58	
	04415-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.25	0.47	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04415-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	58	
	04415-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.35	0.53	58	
	04415-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.32	0.47	58	
	04415-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.47	58	
	04416-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.33	0.52	55	
	04416-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	55	
	04416-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.28	0.52	55	
	04416-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	55	
	04417-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.30	0.47	55	
	04417-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.30	0.47	55	
	04417-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.25	0.47	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04417-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.25	0.47	55	
	04418-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.24	0.42	64	
	04418-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.22	0.37	64	
	04419-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.22	0.37	64	
	04419-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.22	0.37	64	
	04420-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.33	0.21	0.50	55	
	04420-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.19	0.44	55	
	04420-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.19	0.44	55	
	04420-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.33	0.30	0.50	55	
	04420-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.27	0.44	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04420-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.27	0.44	55	
	04421-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.50	59	
	04421-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.19	0.44	59	
	04421-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.44	59	
	04421-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.30	0.50	59	
	04421-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.44	59	
	04421-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.44	59	
	04422-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.21	0.49	55	
	04422-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.19	0.44	55	
	04422-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.19	0.44	55	
	04422-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.49	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04422-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.44	55	
	04422-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.44	55	
	04423-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.49	58	
	04423-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.19	0.44	58	
	04423-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.44	58	
	04423-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.30	0.49	58	
	04423-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.44	58	
	04423-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.44	58	
	04424-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.29	0.48	56	
	04424-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.43	56	
	04424-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.21	0.48	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
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City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04424-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.19	0.43	56	
	04425-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.26	0.43	56	
	04425-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.26	0.43	56	
	04425-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.19	0.43	56	
	04425-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.19	0.43	56	
	04426-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.19	0.36	65	
	04426-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.17	0.32	65	
	04427-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.17	0.32	65	
	04427-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.17	0.32	65	
	04428-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.61	0.63	43	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04428-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.54	0.56	43	
	04428-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.54	0.56	43	
	04429-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.59	0.62	43	
	04429-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.53	0.56	43	
	04429-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.53	0.56	43	
	04430-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.62	42	
	04430-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	04430-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	04431-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	04432-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.48	0.55	0.61	42	
	04432-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04432-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.48	0.57	0.61	42	
	04432-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	04433-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.49	0.49	0.55	42	
	04433-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.49	0.49	0.55	42	
	04433-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.49	0.51	0.55	42	
	04433-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.49	0.51	0.55	42	
	04434-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.39	0.55	0.58	50	
	04434-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	50	
	04435-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.40	0.49	0.52	50	
	04435-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.40	0.49	0.52	50	
	04436-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.30	0.54	54	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04436-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.27	0.48	54	
	04436-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.27	0.48	54	
	04436-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.37	0.54	54	
	04436-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.33	0.48	54	
	04436-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.33	0.48	54	
	04437-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.30	0.54	57	
	04437-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.27	0.48	57	
	04437-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.27	0.48	57	
	04437-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.38	0.54	57	
	04437-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.34	0.48	57	
	04437-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.34	0.48	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04438-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.30	0.53	53	
	04438-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.27	0.47	53	
	04438-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.27	0.47	53	
	04438-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.37	0.53	53	
	04438-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.33	0.47	53	
	04438-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.33	0.47	53	
	04439-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.53	56	
	04439-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.27	0.47	56	
	04439-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.27	0.47	56	
	04439-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.37	0.53	56	
	04439-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.33	0.47	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04439-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.33	0.47	56	
	04440-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.35	0.52	54	
	04440-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.32	0.47	54	
	04440-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.29	0.52	54	
	04440-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.26	0.47	54	
	04441-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.32	0.47	54	
	04441-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.32	0.47	54	
	04441-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.26	0.47	54	
	04441-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.26	0.47	54	
	04442-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.26	0.26	0.42	62	
	04442-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.23	0.37	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	04443-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.27	0.23	0.37	61		
	04443-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.27	0.23	0.37	61		
	04444-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.35	0.51	0.62	53		
	04444-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.35	0.46	0.55	53		
	04444-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.35	0.46	0.55	53		
	04444-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.35	0.54	0.62	53		
	04444-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.35	0.49	0.55	53		
	04444-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.35	0.49	0.55	53		
	04445-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.51	0.62	56		
	04445-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.46	0.55	56		
	04445-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.46	0.55	56		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04445-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.54	0.62	56	
	04445-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.49	0.55	56	
	04445-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.49	0.55	56	
	04446-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.35	0.51	0.61	52	
	04446-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.35	0.45	0.55	52	
	04446-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.35	0.45	0.55	52	
	04446-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.35	0.53	0.61	52	
	04446-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.35	0.48	0.55	52	
	04446-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.35	0.48	0.55	52	
	04447-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.51	0.61	55	
	04447-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.45	0.55	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04447-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.55	55	
	04447-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.54	0.61	55	
	04447-00005	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.48	0.55	55	
	04447-00006	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.48	0.55	55	
	04448-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.33	0.49	0.60	53	
	04448-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.44	0.54	53	
	04448-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.33	0.50	0.60	53	
	04448-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.45	0.54	53	
	04449-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.34	0.44	0.54	53	
	04449-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.34	0.44	0.54	53	
	04449-00003	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.34	0.45	0.54	53	

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City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04449-00004	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.34	0.45	0.54	53	
	04450-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.27	0.45	0.56	61	
	04450-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.27	0.41	0.50	61	
	04451-00001	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.28	0.41	0.50	61	
	04451-00002	"141.094/142.094/148.094 HS / Opt 3 (ALU Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.28	0.41	0.50	61	
	04452-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.61	0.63	45	
	04452-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.54	0.56	45	
	04452-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.54	0.56	45	
	04453-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.59	0.62	45	
	04453-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.53	0.56	45	

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CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04453-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.53	0.56	45	
	04454-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	45	
	04454-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	45	
	04454-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	45	
	04455-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	45	
	04456-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	43	
	04456-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	43	
	04456-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	43	
	04456-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	43	
	04457-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	43	
	04457-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	43	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04457-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	43	
	04457-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	43	
	04458-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.38	0.55	0.58	53	
	04458-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	53	
	04459-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.39	0.49	0.52	53	
	04459-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	53	
	04460-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.29	0.54	58	
	04460-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.48	58	
	04460-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.48	58	
	04460-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.35	0.54	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4			IA: Keystone Certifications, Inc.												
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	04460-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.32	0.48	58
	04460-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.32	0.48	58
	04461-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.54	62
	04461-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.26	0.48	62
	04461-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.48	62
	04461-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.36	0.54	62
	04461-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.32	0.48	62
	04461-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.48	62
	04462-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.29	0.53	57
	04462-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.47	57
	04462-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.47	57

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04462-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.35	0.53	57	
	04462-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.31	0.47	57	
	04462-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.31	0.47	57	
	04463-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.53	61	
	04463-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.25	0.47	61	
	04463-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	61	
	04463-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.53	61	
	04463-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.47	61	
	04463-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	61	
	04464-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.33	0.52	59	
	04464-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04464-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.28	0.52	59	
	04464-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	59	
	04465-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.30	0.47	59	
	04465-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.30	0.47	59	
	04465-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.25	0.47	59	
	04465-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.25	0.47	59	
	04466-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4"" IG (P1-	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.24	0.42	67	
	04466-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4"" IG (P1-	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.22	0.37	67	
	04467-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4"" IG (P1-	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.22	0.37	67	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04467-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.22	0.37	67	
	04468-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.21	0.50	59	
	04468-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.19	0.44	59	
	04468-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.19	0.44	59	
	04468-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.30	0.50	59	
	04468-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.44	59	
	04468-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.44	59	
	04469-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.50	62	
	04469-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	62	
	04469-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	62	
	04469-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.50	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04469-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	62	
	04469-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	62	
	04470-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.21	0.49	58	
	04470-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	58	
	04470-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	58	
	04470-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.49	58	
	04470-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	58	
	04470-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	58	
	04471-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.49	62	
	04471-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	62	
	04471-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04471-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.49	62	
	04471-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	62	
	04471-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	62	
	04472-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.48	59	
	04472-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	59	
	04472-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.21	0.48	59	
	04472-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	59	
	04473-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.43	59	
	04473-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.43	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04473-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.19	0.43	59	
	04473-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.19	0.43	59	
	04474-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (P1-	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.19	0.36	67	
	04474-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (P1-	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	67	
	04475-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (P1-	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.17	0.32	67	
	04475-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (P1-	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.17	0.32	67	
	04476-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.30	0.54	58	
	04476-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.48	58	
	04476-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.48	58	
	04476-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.37	0.54	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04476-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.48	58	
	04476-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.48	58	
	04477-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.30	0.54	62	
	04477-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.48	62	
	04477-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.48	62	
	04477-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.38	0.54	62	
	04477-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.34	0.48	62	
	04477-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.34	0.48	62	
	04478-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.30	0.53	57	
	04478-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.47	57	
	04478-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.47	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	04478-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.37	0.53	57																
	04478-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.47	57																
	04478-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.47	57																
	04479-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.53	61																
	04479-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.47	61																
	04479-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.47	61																
	04479-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.37	0.53	61																
	04479-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.33	0.47	61																
	04479-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.33	0.47	61																
	04480-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.35	0.52	59																
	04480-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	59																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04480-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.52	59	
	04480-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	59	
	04481-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.32	0.47	59	
	04481-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.32	0.47	59	
	04481-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.26	0.47	59	
	04481-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.26	0.47	59	
	04482-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.26	0.42	67	
	04482-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	67	
	04483-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.23	0.37	67	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	04483-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.23	0.37	67		
	04484-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.34	0.51	0.62	57		
	04484-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.34	0.46	0.55	57		
	04484-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.34	0.46	0.55	57		
	04484-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.34	0.54	0.62	57		
	04484-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.34	0.49	0.55	57		
	04484-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.34	0.49	0.55	57		
	04485-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.62	60		
	04485-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.46	0.55	60		
	04485-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.46	0.55	60		
	04485-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.62	60		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04485-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.49	0.55	60	
	04485-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.49	0.55	60	
	04486-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.51	0.61	56	
	04486-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.45	0.55	56	
	04486-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.45	0.55	56	
	04486-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.53	0.61	56	
	04486-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.48	0.55	56	
	04486-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.48	0.55	56	
	04487-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.61	59	
	04487-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.45	0.55	59	
	04487-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.55	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04487-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.61	59	
	04487-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.48	0.55	59	
	04487-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.48	0.55	59	
	04488-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.49	0.60	57	
	04488-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	57	
	04488-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.50	0.60	57	
	04488-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	57	
	04489-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.44	0.54	57	
	04489-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.44	0.54	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	04489-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.45	0.54	57																
	04489-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.45	0.54	57																
	04490-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4"" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.26	0.45	0.56	66																
	04490-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4"" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	66																
	04491-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4"" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.27	0.41	0.50	66																
	04491-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4"" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.27	0.41	0.50	66																
	04492-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4"" IG"	VY/VV	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.61	0.63	44																
	04492-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4"" IG"	VY/VV	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.54	0.56	44																
	04492-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4"" IG"	VY/VV	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.54	0.56	44																
	04493-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4"" IG"	VY/VV	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.59	0.62	44																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04493-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.53	0.56	44	
	04493-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.53	0.56	44	
	04494-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.62	43	
	04494-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	43	
	04494-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	43	
	04495-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	43	
	04496-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.48	0.55	0.61	42	
	04496-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	
	04496-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.48	0.57	0.61	42	
	04496-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	04497-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.49	0.49	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	04497-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.49	0.49	0.55	42
	04497-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / lami (DS DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.49	0.51	0.55	42
	04497-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / lami (DS DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.49	0.51	0.55	42
	04498-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.39	0.55	0.58	52
	04498-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	52
	04499-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.39	0.49	0.52	52
	04499-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	52
	04500-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.33	0.29	0.54	55
	04500-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.26	0.48	55
	04500-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.26	0.48	55

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04500-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.33	0.35	0.54	55	
	04500-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.32	0.48	55	
	04500-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.32	0.48	55	
	04501-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.28	0.54	59	
	04501-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.48	59	
	04501-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.48	59	
	04501-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.36	0.54	59	
	04501-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.32	0.48	59	
	04501-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.48	59	
	04502-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.33	0.29	0.53	55	
	04502-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.26	0.47	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04502-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.26	0.47	55	
	04502-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.33	0.35	0.53	55	
	04502-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.31	0.47	55	
	04502-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.31	0.47	55	
	04503-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.53	58	
	04503-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.25	0.47	58	
	04503-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	58	
	04503-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.35	0.53	58	
	04503-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.32	0.47	58	
	04503-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.47	58	
	04504-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.33	0.52	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04504-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	56	
	04504-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.28	0.52	56	
	04504-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	56	
	04505-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.30	0.47	56	
	04505-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.30	0.47	56	
	04505-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.25	0.47	56	
	04505-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.25	0.47	56	
	04506-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4"" IG (SS-	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.24	0.42	65	
	04506-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4"" IG (SS-	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.22	0.37	65	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04507-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.22	0.37	65	
	04507-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.22	0.37	65	
	04508-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.33	0.21	0.50	56	
	04508-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.19	0.44	56	
	04508-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.19	0.44	56	
	04508-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.33	0.30	0.50	56	
	04508-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.27	0.44	56	
	04508-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.27	0.44	56	
	04509-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.50	59	
	04509-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.19	0.44	59	
	04509-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.44	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04509-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.30	0.50	59	
	04509-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.44	59	
	04509-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.44	59	
	04510-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.21	0.49	55	
	04510-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.19	0.44	55	
	04510-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.19	0.44	55	
	04510-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.49	55	
	04510-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.44	55	
	04510-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.44	55	
	04511-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.49	59	
	04511-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.19	0.44	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04511-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.44	59	
	04511-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.30	0.49	59	
	04511-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.44	59	
	04511-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.44	59	
	04512-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.29	0.48	56	
	04512-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.43	56	
	04512-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.21	0.48	56	
	04512-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.19	0.43	56	
	04513-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.26	0.43	56	
	04513-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.26	0.43	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04513-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.19	0.43	56	
	04513-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.19	0.43	56	
	04514-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (SS-	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.19	0.36	65	
	04514-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (SS-	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.17	0.32	65	
	04515-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (SS-	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.17	0.32	65	
	04515-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (SS-	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.17	0.32	65	
	04516-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): clr / air / clr (SS/SS) 3/4"" IG"	VY/VV	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.61	0.63	44	
	04516-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): clr / air / clr (SS/SS) 3/4"" IG"	VY/VV	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.54	0.56	44	
	04516-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): clr / air / clr (SS/SS) 3/4"" IG"	VY/VV	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.54	0.56	44	
	04517-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S) No Foam): clr / air / clr (DS/DS) 3/4"" IG"	VY/VV	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.59	0.62	43	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04517-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.53	0.56	43	
	04517-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.53	0.56	43	
	04518-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.62	42	
	04518-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	04518-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	04519-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	04520-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.48	0.55	0.61	42	
	04520-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	
	04520-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.48	0.57	0.61	42	
	04520-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	04521-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.49	0.49	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04521-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.49	0.49	0.55	42	
	04521-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / lami (DS DS 090 DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.49	0.51	0.55	42	
	04521-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / lami (DS DS 090 DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.49	0.51	0.55	42	
	04522-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.39	0.55	0.58	50	
	04522-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	50	
	04523-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.40	0.49	0.52	50	
	04523-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.40	0.49	0.52	50	
	04524-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.30	0.54	54	
	04524-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.27	0.48	54	
	04524-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.27	0.48	54	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04524-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.37	0.54	54	
	04524-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.33	0.48	54	
	04524-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.33	0.48	54	
	04525-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.30	0.54	57	
	04525-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.27	0.48	57	
	04525-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.27	0.48	57	
	04525-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.38	0.54	57	
	04525-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.34	0.48	57	
	04525-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.34	0.48	57	
	04526-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.30	0.53	53	
	04526-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.27	0.47	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04526-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.27	0.47	53	
	04526-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.37	0.53	53	
	04526-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.33	0.47	53	
	04526-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.33	0.47	53	
	04527-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.53	56	
	04527-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.27	0.47	56	
	04527-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.27	0.47	56	
	04527-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.37	0.53	56	
	04527-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.33	0.47	56	
	04527-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.33	0.47	56	
	04528-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.35	0.52	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04528-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	55	
	04528-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.29	0.52	55	
	04528-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	55	
	04529-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.32	0.47	55	
	04529-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.32	0.47	55	
	04529-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.26	0.47	55	
	04529-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.26	0.47	55	
	04530-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.26	0.26	0.42	62	
	04530-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.23	0.37	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	04531-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.27	0.23	0.37	62		
	04531-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.27	0.23	0.37	62		
	04532-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.35	0.51	0.62	53		
	04532-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.35	0.46	0.55	53		
	04532-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.35	0.46	0.55	53		
	04532-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.35	0.54	0.62	53		
	04532-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.35	0.49	0.55	53		
	04532-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.35	0.49	0.55	53		
	04533-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.51	0.62	56		
	04533-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.46	0.55	56		
	04533-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.46	0.55	56		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
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City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04533-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.54	0.62	56	
	04533-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.49	0.55	56	
	04533-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.49	0.55	56	
	04534-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.51	0.61	52	
	04534-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.45	0.55	52	
	04534-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.45	0.55	52	
	04534-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.53	0.61	52	
	04534-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.48	0.55	52	
	04534-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.48	0.55	52	
	04535-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.51	0.61	55	
	04535-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.45	0.55	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04535-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.55	55	
	04535-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.54	0.61	55	
	04535-00005	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.48	0.55	55	
	04535-00006	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.48	0.55	55	
	04536-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.33	0.49	0.60	54	
	04536-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.44	0.54	54	
	04536-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.33	0.50	0.60	54	
	04536-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.45	0.54	54	
	04537-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.34	0.44	0.54	54	
	04537-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.34	0.44	0.54	54	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04537-00003	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.34	0.45	0.54	54	
	04537-00004	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.34	0.45	0.54	54	
	04538-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4"" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.27	0.45	0.56	61	
	04538-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4"" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.27	0.41	0.50	61	
	04539-00001	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4"" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.28	0.41	0.50	61	
	04539-00002	"141.094/142.094/148.094 HS / Opt 4 (Heavy ALU Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4"" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.28	0.41	0.50	61	
	04540-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4"" IG"	VY/VI	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	46	
	04540-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4"" IG"	VY/VI	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	46	
	04540-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4"" IG"	VY/VI	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	46	
	04541-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4"" IG"	VY/VI	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	45	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04541-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	45	
	04541-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	45	
	04542-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	45	
	04542-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	45	
	04542-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	45	
	04543-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	45	
	04544-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	44	
	04544-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	44	
	04544-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	44	
	04544-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	44	
	04545-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04545-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	44	
	04545-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	44	
	04545-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	44	
	04546-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	53	
	04546-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	53	
	04547-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	53	
	04547-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	53	
	04548-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.54	58	
	04548-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.48	58	
	04548-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.48	58	
	04548-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.35	0.54	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04548-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.32	0.48	58	
	04548-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.32	0.48	58	
	04549-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.54	62	
	04549-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.26	0.48	62	
	04549-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.48	62	
	04549-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.36	0.54	62	
	04549-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.48	62	
	04549-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.48	62	
	04550-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.53	58	
	04550-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.47	58	
	04550-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.47	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04550-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.35	0.53	58	
	04550-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.31	0.47	58	
	04550-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.31	0.47	58	
	04551-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.53	61	
	04551-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.25	0.47	61	
	04551-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	61	
	04551-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.53	61	
	04551-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.47	61	
	04551-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	61	
	04552-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.33	0.52	59	
	04552-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04552-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.28	0.52	59	
	04552-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	59	
	04553-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	59	
	04553-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	59	
	04553-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	59	
	04553-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	59	
	04554-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.24	0.42	67	
	04554-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	67	
	04555-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.22	0.37	67	
	04555-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.22	0.37	67	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04556-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.21	0.50	59	
	04556-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	59	
	04556-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	59	
	04556-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.50	59	
	04556-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	59	
	04556-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	59	
	04557-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.50	63	
	04557-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	63	
	04557-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	63	
	04557-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.50	63	
	04557-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	63	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04557-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	63	
	04558-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.21	0.49	58	
	04558-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	58	
	04558-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	58	
	04558-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.49	58	
	04558-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	58	
	04558-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	58	
	04559-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	62	
	04559-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	62	
	04559-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	62	
	04559-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04559-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	62	
	04559-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	62	
	04560-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	60	
	04560-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	60	
	04560-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	60	
	04560-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	60	
	04561-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.43	60	
	04561-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.43	60	
	04561-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.19	0.43	60	
	04561-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.19	0.43	60	
	04562-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.19	0.36	68	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	04562-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	68		
	04563-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.17	0.32	68		
	04563-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.17	0.32	68		
	04564-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.54	58		
	04564-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.48	58		
	04564-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.48	58		
	04564-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.37	0.54	58		
	04564-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.48	58		
	04564-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.48	58		
	04565-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.54	62		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04565-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.48	62	
	04565-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.48	62	
	04565-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.38	0.54	62	
	04565-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.34	0.48	62	
	04565-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.34	0.48	62	
	04566-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	58	
	04566-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	58	
	04566-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	58	
	04566-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	58	
	04566-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	58	
	04566-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04567-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.53	61	
	04567-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.47	61	
	04567-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.47	61	
	04567-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.37	0.53	61	
	04567-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.33	0.47	61	
	04567-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.33	0.47	61	
	04568-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.35	0.52	59	
	04568-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	59	
	04568-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.52	59	
	04568-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	59	
	04569-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	04569-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	59																
	04569-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	59																
	04569-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	59																
	04570-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.26	0.42	68																
	04570-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	68																
	04571-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.23	0.37	67																
	04571-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	67																
	04572-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.51	0.62	57																
	04572-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.46	0.55	57																
	04572-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.46	0.55	57																
	04572-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.54	0.62	57																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04572-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.49	0.55	57	
	04572-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.49	0.55	57	
	04573-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.62	61	
	04573-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.46	0.55	61	
	04573-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.46	0.55	61	
	04573-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.62	61	
	04573-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.49	0.55	61	
	04573-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.49	0.55	61	
	04574-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.51	0.61	56	
	04574-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.45	0.55	56	
	04574-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.45	0.55	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04574-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.53	0.61	56	
	04574-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.48	0.55	56	
	04574-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.48	0.55	56	
	04575-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.61	60	
	04575-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.45	0.55	60	
	04575-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.45	0.55	60	
	04575-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.61	60	
	04575-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.48	0.55	60	
	04575-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.48	0.55	60	
	04576-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	58	
	04576-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04576-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	58	
	04576-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	58	
	04577-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.44	0.54	58	
	04577-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	58	
	04577-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.45	0.54	58	
	04577-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	58	
	04578-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	66	
	04578-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	66	
	04579-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.41	0.50	66	
	04579-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	66	
	04580-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.61	0.63	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04580-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.54	0.56	44	
	04580-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.54	0.56	44	
	04581-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.59	0.62	44	
	04581-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.53	0.56	44	
	04581-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.53	0.56	44	
	04582-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	43	
	04582-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43	
	04582-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	43	
	04583-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43	
	04584-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	42	
	04584-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04584-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	42	
	04584-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	04585-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	42	
	04585-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	
	04585-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	42	
	04585-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	04586-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.38	0.55	0.58	52	
	04586-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52	
	04587-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.39	0.49	0.52	52	
	04587-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	52	
	04588-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.54	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04588-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.48	56	
	04588-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.48	56	
	04588-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.35	0.54	56	
	04588-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.32	0.48	56	
	04588-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.32	0.48	56	
	04589-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.54	59	
	04589-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.26	0.48	59	
	04589-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.48	59	
	04589-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.36	0.54	59	
	04589-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.32	0.48	59	
	04589-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.48	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04590-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.53	55	
	04590-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.47	55	
	04590-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.47	55	
	04590-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.35	0.53	55	
	04590-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.31	0.47	55	
	04590-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.31	0.47	55	
	04591-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.53	58	
	04591-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.25	0.47	58	
	04591-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	58	
	04591-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.35	0.53	58	
	04591-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.32	0.47	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04591-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.47	58	
	04592-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.33	0.52	56	
	04592-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	56	
	04592-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.28	0.52	56	
	04592-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	56	
	04593-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.30	0.47	56	
	04593-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.30	0.47	56	
	04593-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.25	0.47	56	
	04593-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.25	0.47	56	
	04594-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.24	0.42	65	
	04594-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	65	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	04595-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.22	0.37	65		
	04595-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.22	0.37	65		
	04596-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.21	0.50	56		
	04596-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.19	0.44	56		
	04596-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.19	0.44	56		
	04596-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.50	56		
	04596-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.44	56		
	04596-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.44	56		
	04597-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.50	59		
	04597-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	59		
	04597-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	59		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04597-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.50	59	
	04597-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	59	
	04597-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	59	
	04598-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.21	0.49	55	
	04598-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.19	0.44	55	
	04598-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.19	0.44	55	
	04598-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.49	55	
	04598-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.44	55	
	04598-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.44	55	
	04599-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.49	59	
	04599-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04599-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	59	
	04599-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.49	59	
	04599-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	59	
	04599-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	59	
	04600-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.48	56	
	04600-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	56	
	04600-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.21	0.48	56	
	04600-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	56	
	04601-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.43	56	
	04601-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.43	56	
	04601-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.19	0.43	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04601-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.19	0.43	56	
	04602-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.19	0.36	66	
	04602-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	66	
	04603-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.17	0.32	66	
	04603-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.17	0.32	66	
	04604-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.61	0.63	44	
	04604-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.54	0.56	44	
	04604-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.54	0.56	44	
	04605-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.59	0.62	43	
	04605-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.53	0.56	43	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04605-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.53	0.56	43	
	04606-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	42	
	04606-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	42	
	04606-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	04607-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	04608-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	42	
	04608-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	04608-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	42	
	04608-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	04609-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	42	
	04609-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04609-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	42	
	04609-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	04610-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.38	0.55	0.58	50	
	04610-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	50	
	04611-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.39	0.49	0.52	50	
	04611-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	50	
	04612-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.30	0.54	54	
	04612-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.27	0.48	54	
	04612-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.27	0.48	54	
	04612-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.37	0.54	54	
	04612-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.33	0.48	54	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	04612-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.33	0.48	54																
	04613-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.30	0.54	58																
	04613-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.48	58																
	04613-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.48	58																
	04613-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.38	0.54	58																
	04613-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.34	0.48	58																
	04613-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.34	0.48	58																
	04614-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.53	53																
	04614-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.47	53																
	04614-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.47	53																
	04614-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.37	0.53	53																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04614-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.47	53	
	04614-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.47	53	
	04615-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.53	56	
	04615-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.47	56	
	04615-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.47	56	
	04615-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.37	0.53	56	
	04615-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.33	0.47	56	
	04615-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.33	0.47	56	
	04616-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.35	0.52	55	
	04616-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	55	
	04616-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.29	0.52	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04616-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	55	
	04617-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.32	0.47	55	
	04617-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.32	0.47	55	
	04617-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.26	0.47	55	
	04617-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.26	0.47	55	
	04618-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.26	0.42	62	
	04618-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	62	
	04619-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.23	0.37	62	
	04619-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.23	0.37	62	
	04620-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.51	0.62	53	
	04620-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.46	0.55	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04620-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.46	0.55	53	
	04620-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.54	0.62	53	
	04620-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.49	0.55	53	
	04620-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.49	0.55	53	
	04621-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.51	0.62	56	
	04621-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.46	0.55	56	
	04621-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.46	0.55	56	
	04621-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.54	0.62	56	
	04621-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.49	0.55	56	
	04621-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.49	0.55	56	
	04622-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.51	0.61	52	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4			IA: Keystone Certifications, Inc.												
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	04622-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.45	0.55	52
	04622-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.45	0.55	52
	04622-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.53	0.61	52
	04622-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.48	0.55	52
	04622-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.48	0.55	52
	04623-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.51	0.61	55
	04623-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.45	0.55	55
	04623-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.55	55
	04623-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.54	0.61	55
	04623-00005	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.48	0.55	55
	04623-00006	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.48	0.55	55

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04624-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.49	0.60	54	
	04624-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	54	
	04624-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.50	0.60	54	
	04624-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	54	
	04625-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.34	0.44	0.54	54	
	04625-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.34	0.44	0.54	54	
	04625-00003	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.34	0.45	0.54	54	
	04625-00004	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.34	0.45	0.54	54	
	04626-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.26	0.45	0.56	61	
	04626-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	61	
	04627-00001	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.27	0.41	0.50	61	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	04627-00002	"141.094/142.094/148.094 HS / Opt 5 (INN Refo KS/LS/ No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.27	0.41	0.50	61		
	04628-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	46		
	04628-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	46		
	04628-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	46		
	04629-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	45		
	04629-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	45		
	04629-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	45		
	04630-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	45		
	04630-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	45		
	04630-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	45		
	04631-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	45		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04632-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	44	
	04632-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	44	
	04632-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	44	
	04632-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	44	
	04633-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	44	
	04633-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	44	
	04633-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	44	
	04633-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	44	
	04634-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	53	
	04634-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	53	
	04635-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04635-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	53	
	04636-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.54	58	
	04636-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.48	58	
	04636-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.48	58	
	04636-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.35	0.54	58	
	04636-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.32	0.48	58	
	04636-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.32	0.48	58	
	04637-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.54	62	
	04637-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.26	0.48	62	
	04637-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.48	62	
	04637-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.36	0.54	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04637-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.48	62	
	04637-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.48	62	
	04638-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.53	58	
	04638-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.47	58	
	04638-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.47	58	
	04638-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.35	0.53	58	
	04638-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.31	0.47	58	
	04638-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.31	0.47	58	
	04639-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.53	61	
	04639-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.25	0.47	61	
	04639-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	61	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04639-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.53	61	
	04639-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.47	61	
	04639-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	61	
	04640-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.33	0.52	59	
	04640-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	59	
	04640-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.28	0.52	59	
	04640-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	59	
	04641-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	59	
	04641-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	59	
	04641-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	59	
	04641-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04642-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.24	0.42	67	
	04642-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	67	
	04643-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.22	0.37	67	
	04643-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.22	0.37	67	
	04644-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.21	0.50	59	
	04644-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	59	
	04644-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	59	
	04644-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.50	59	
	04644-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	59	
	04644-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04645-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.50	63	
	04645-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	63	
	04645-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	63	
	04645-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.50	63	
	04645-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	63	
	04645-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	63	
	04646-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.21	0.49	58	
	04646-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	58	
	04646-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	58	
	04646-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.49	58	
	04646-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
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City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04646-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	58	
	04647-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	62	
	04647-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	62	
	04647-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	62	
	04647-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	62	
	04647-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	62	
	04647-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	62	
	04648-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	60	
	04648-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	60	
	04648-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	60	
	04648-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	60	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04649-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.43	60	
	04649-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.43	60	
	04649-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.19	0.43	60	
	04649-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.19	0.43	60	
	04650-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.19	0.36	68	
	04650-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	68	
	04651-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.17	0.32	68	
	04651-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.17	0.32	68	
	04652-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.54	58	
	04652-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.48	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04652-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.48	58	
	04652-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.37	0.54	58	
	04652-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.48	58	
	04652-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.48	58	
	04653-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.54	62	
	04653-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.48	62	
	04653-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.48	62	
	04653-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.38	0.54	62	
	04653-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.34	0.48	62	
	04653-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.34	0.48	62	
	04654-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	04654-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	58																
	04654-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	58																
	04654-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	58																
	04654-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	58																
	04654-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	58																
	04655-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.53	61																
	04655-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.47	61																
	04655-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.47	61																
	04655-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.37	0.53	61																
	04655-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.33	0.47	61																
	04655-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.33	0.47	61																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04656-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.35	0.52	59	
	04656-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	59	
	04656-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.52	59	
	04656-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	59	
	04657-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	59	
	04657-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	59	
	04657-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	59	
	04657-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	59	
	04658-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.26	0.42	67	
	04658-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	67	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	04659-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/SJ No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.23	0.37	67		
	04659-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/SJ No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	67		
	04660-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/SJ No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.51	0.62	57		
	04660-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/SJ No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.46	0.55	57		
	04660-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/SJ No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.46	0.55	57		
	04660-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/SJ No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.54	0.62	57		
	04660-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/SJ No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.49	0.55	57		
	04660-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/SJ No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.49	0.55	57		
	04661-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/SJ No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.62	61		
	04661-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/SJ No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.46	0.55	61		
	04661-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/SJ No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.46	0.55	61		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04661-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.62	61	
	04661-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.49	0.55	61	
	04661-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.49	0.55	61	
	04662-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.51	0.61	56	
	04662-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.45	0.55	56	
	04662-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.45	0.55	56	
	04662-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.53	0.61	56	
	04662-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.48	0.55	56	
	04662-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.48	0.55	56	
	04663-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.61	60	
	04663-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.45	0.55	60	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04663-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.45	0.55	60	
	04663-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.61	60	
	04663-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.48	0.55	60	
	04663-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.48	0.55	60	
	04664-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	58	
	04664-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	58	
	04664-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	58	
	04664-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	58	
	04665-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.44	0.54	58	
	04665-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.44	0.54	58	
	04665-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.45	0.54	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04665-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.45	0.54	58	
	04666-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	66	
	04666-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	66	
	04667-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.41	0.50	66	
	04667-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	66	
	04668-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.61	0.63	44	
	04668-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.54	0.56	44	
	04668-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.54	0.56	44	
	04669-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.59	0.62	44	
	04669-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.53	0.56	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04669-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.53	0.56	44	
	04670-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	43	
	04670-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43	
	04670-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	43	
	04671-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43	
	04672-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	42	
	04672-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	04672-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	42	
	04672-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	04673-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	42	
	04673-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
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CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04673-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	42	
	04673-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	04674-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.38	0.55	0.58	52	
	04674-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52	
	04675-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.39	0.49	0.52	52	
	04675-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	52	
	04676-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.54	56	
	04676-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.48	56	
	04676-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.48	56	
	04676-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.35	0.54	56	
	04676-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.32	0.48	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2- Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04676-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.32	0.48	56	
	04677-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.54	59	
	04677-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.26	0.48	59	
	04677-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.48	59	
	04677-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.36	0.54	59	
	04677-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.32	0.48	59	
	04677-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.48	59	
	04678-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.53	55	
	04678-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.47	55	
	04678-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.47	55	
	04678-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.35	0.53	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04678-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.31	0.47	55	
	04678-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.31	0.47	55	
	04679-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.53	58	
	04679-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.25	0.47	58	
	04679-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	58	
	04679-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4"" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.35	0.53	58	
	04679-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4"" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.32	0.47	58	
	04679-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4"" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.47	58	
	04680-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.33	0.52	56	
	04680-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4"" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	56	
	04680-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.28	0.52	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04680-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	56	
	04681-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.30	0.47	56	
	04681-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.30	0.47	56	
	04681-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.25	0.47	56	
	04681-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.25	0.47	56	
	04682-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.24	0.42	65	
	04682-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	65	
	04683-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.22	0.37	65	
	04683-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.22	0.37	65	
	04684-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.21	0.50	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04684-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.19	0.44	56	
	04684-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.19	0.44	56	
	04684-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.50	56	
	04684-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.44	56	
	04684-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.44	56	
	04685-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.50	59	
	04685-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.19	0.44	59	
	04685-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.44	59	
	04685-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.30	0.50	59	
	04685-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.44	59	
	04685-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.44	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04686-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.21	0.49	55	
	04686-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.19	0.44	55	
	04686-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.19	0.44	55	
	04686-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.49	55	
	04686-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.44	55	
	04686-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.44	55	
	04687-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.49	59	
	04687-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	59	
	04687-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	59	
	04687-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.49	59	
	04687-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04687-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	59	
	04688-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.48	56	
	04688-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	56	
	04688-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.21	0.48	56	
	04688-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	56	
	04689-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.26	0.43	56	
	04689-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.26	0.43	56	
	04689-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.19	0.43	56	
	04689-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.19	0.43	56	
	04690-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.19	0.36	66	
	04690-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	66	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	04691-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.17	0.32	66		
	04691-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.17	0.32	66		
	04692-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.61	0.63	44		
	04692-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.54	0.56	44		
	04692-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.54	0.56	44		
	04693-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.59	0.62	43		
	04693-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.53	0.56	43		
	04693-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.53	0.56	43		
	04694-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	42		
	04694-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	42		
	04694-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04695-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	04696-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.48	0.55	0.61	42	
	04696-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	
	04696-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.48	0.57	0.61	42	
	04696-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	04697-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	42	
	04697-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	
	04697-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	42	
	04697-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	04698-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.38	0.55	0.58	50	
	04698-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	50	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04699-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.39	0.49	0.52	50	
	04699-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	50	
	04700-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.30	0.54	54	
	04700-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.27	0.48	54	
	04700-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.27	0.48	54	
	04700-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.37	0.54	54	
	04700-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.33	0.48	54	
	04700-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.33	0.48	54	
	04701-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.30	0.54	57	
	04701-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.48	57	
	04701-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S) No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.48	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04701-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.38	0.54	57	
	04701-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.34	0.48	57	
	04701-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.34	0.48	57	
	04702-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.53	53	
	04702-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.47	53	
	04702-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.47	53	
	04702-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.37	0.53	53	
	04702-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.47	53	
	04702-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.47	53	
	04703-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.53	56	
	04703-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.47	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04703-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.47	56	
	04703-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.37	0.53	56	
	04703-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.33	0.47	56	
	04703-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.33	0.47	56	
	04704-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.35	0.52	55	
	04704-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	55	
	04704-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.29	0.52	55	
	04704-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	55	
	04705-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.32	0.47	55	
	04705-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.32	0.47	55	
	04705-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.26	0.47	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04705-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.26	0.47	55	
	04706-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.26	0.42	62	
	04706-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	62	
	04707-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.23	0.37	62	
	04707-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.23	0.37	62	
	04708-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.51	0.62	53	
	04708-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.46	0.55	53	
	04708-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.46	0.55	53	
	04708-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.54	0.62	53	
	04708-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.49	0.55	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04708-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.49	0.55	53	
	04709-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.51	0.62	56	
	04709-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.46	0.55	56	
	04709-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.46	0.55	56	
	04709-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.54	0.62	56	
	04709-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.49	0.55	56	
	04709-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.49	0.55	56	
	04710-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.51	0.61	52	
	04710-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.45	0.55	52	
	04710-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.45	0.55	52	
	04710-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.53	0.61	52	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4			IA: Keystone Certifications, Inc.												
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	04710-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.48	0.55	52
	04710-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.48	0.55	52
	04711-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.51	0.61	55
	04711-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.45	0.55	55
	04711-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.55	55
	04711-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.54	0.61	55
	04711-00005	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.48	0.55	55
	04711-00006	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.48	0.55	55
	04712-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.49	0.60	54
	04712-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	54
	04712-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.50	0.60	54

NFRC Product Certification Authorization Report



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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04712-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	54	
	04713-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.34	0.44	0.54	54	
	04713-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.34	0.44	0.54	54	
	04713-00003	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.34	0.45	0.54	54	
	04713-00004	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.34	0.45	0.54	54	
	04714-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.26	0.45	0.56	61	
	04714-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	61	
	04715-00001	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.27	0.41	0.50	61	
	04715-00002	"141.094/142.094/148.094 HS / Opt 6 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.27	0.41	0.50	61	
	04716-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VY	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.61	0.63	46	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04716-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VY	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.54	0.56	46	
	04716-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VY	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.54	0.56	46	
	04717-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VY	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	45	
	04717-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VY	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	45	
	04717-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VY	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	45	
	04718-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VY	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.57	0.62	45	
	04718-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VY	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.51	0.55	45	
	04718-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VY	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.51	0.55	45	
	04719-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VY	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	45	
	04720-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VY	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	44	
	04720-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VY	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04720-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VF/VY	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	44	
	04720-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VF/VY	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44	
	04721-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VF/VY	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.49	0.55	44	
	04721-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VF/VY	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	44	
	04721-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VF/VY	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	44	
	04721-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VF/VY	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44	
	04722-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VY	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.36	0.55	0.58	53	
	04722-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VY	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.36	0.49	0.52	53	
	04723-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VY	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.37	0.49	0.52	53	
	04723-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VY	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	53	
	04724-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / air / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.54	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04724-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / air / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.48	59	
	04724-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / air / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.48	59	
	04724-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VF/VY	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.54	59	
	04724-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VF/VY	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.32	0.48	59	
	04724-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VF/VY	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.32	0.48	59	
	04725-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.54	62	
	04725-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.26	0.48	62	
	04725-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.26	0.48	62	
	04725-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VF/VY	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.36	0.54	62	
	04725-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VF/VY	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.48	62	
	04725-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VF/VY	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.48	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04726-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VY	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.53	58	
	04726-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VY	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.47	58	
	04726-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VY	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.47	58	
	04726-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VY	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.53	58	
	04726-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VY	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.31	0.47	58	
	04726-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VY	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.31	0.47	58	
	04727-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VY	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.28	0.53	61	
	04727-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VY	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.25	0.47	61	
	04727-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VY	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.25	0.47	61	
	04727-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VY	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.35	0.53	61	
	04727-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VY	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.32	0.47	61	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04727-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VY	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.32	0.47	61	
	04728-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.33	0.52	59	
	04728-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.30	0.47	59	
	04728-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.52	59	
	04728-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	59	
	04729-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.30	0.47	59	
	04729-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	59	
	04729-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.25	0.47	59	
	04729-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	59	
	04730-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VY	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	68	
	04730-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VY	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	68	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04731-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VY	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	68	
	04731-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VY	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	68	
	04732-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / air / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.21	0.50	59	
	04732-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / air / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	59	
	04732-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / air / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	59	
	04732-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VF/VY	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.50	59	
	04732-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VF/VY	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	59	
	04732-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VF/VY	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	59	
	04733-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.50	63	
	04733-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	63	
	04733-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	63	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04733-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VY	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.50	63	
	04733-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VY	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	63	
	04733-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VY	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	63	
	04734-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VY	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.21	0.49	58	
	04734-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VY	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	58	
	04734-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VY	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	58	
	04734-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VY	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.49	58	
	04734-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VY	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	58	
	04734-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VY	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	58	
	04735-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VY	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.49	62	
	04735-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VY	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04735-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VY	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	62	
	04735-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VY	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.49	62	
	04735-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VY	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	62	
	04735-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VY	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	62	
	04736-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.48	60	
	04736-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.43	60	
	04736-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.48	60	
	04736-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.43	60	
	04737-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.26	0.43	60	
	04737-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	60	
	04737-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.19	0.43	60	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04737-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VY	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	60	
	04738-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VY	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.22	0.19	0.36	68	
	04738-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VY	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.22	0.17	0.32	68	
	04739-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VY	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.17	0.32	68	
	04739-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VY	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	68	
	04740-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.54	59	
	04740-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.48	59	
	04740-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.48	59	
	04740-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VY	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.54	59	
	04740-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VY	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.48	59	
	04740-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VY	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.48	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04741-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VY	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.54	62	
	04741-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VY	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.48	62	
	04741-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VY	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.48	62	
	04741-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VY	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.38	0.54	62	
	04741-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VY	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.34	0.48	62	
	04741-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VY	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.34	0.48	62	
	04742-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VY	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.53	58	
	04742-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VY	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.47	58	
	04742-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VY	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.47	58	
	04742-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VY	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.53	58	
	04742-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VY	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.47	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04742-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VY	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.47	58	
	04743-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VY	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.29	0.53	62	
	04743-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VY	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.47	62	
	04743-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VY	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.47	62	
	04743-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VY	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.37	0.53	62	
	04743-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VY	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.33	0.47	62	
	04743-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VY	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.33	0.47	62	
	04744-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.52	59	
	04744-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	59	
	04744-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.52	59	
	04744-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.47	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04745-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.32	0.47	59	
	04745-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	59	
	04745-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.47	59	
	04745-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	59	
	04746-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VY	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.26	0.42	68	
	04746-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VY	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.23	0.37	68	
	04747-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VY	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.23	0.37	68	
	04747-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VY	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	68	
	04748-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VY	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.51	0.62	57	
	04748-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VY	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.46	0.55	57	
	04748-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VY	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.46	0.55	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4			IA: Keystone Certifications, Inc.												
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	04748-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VY	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.54	0.62	57
	04748-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VY	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.49	0.55	57
	04748-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VY	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.49	0.55	57
	04749-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VY	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.51	0.62	61
	04749-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VY	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.46	0.55	61
	04749-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VY	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.46	0.55	61
	04749-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VY	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.54	0.62	61
	04749-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VY	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.49	0.55	61
	04749-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VY	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.49	0.55	61
	04750-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VY	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.51	0.61	56
	04750-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VY	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.45	0.55	56

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04750-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VF/VY	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.45	0.55	56	
	04750-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VF/VY	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.53	0.61	56	
	04750-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VF/VY	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.48	0.55	56	
	04750-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VF/VY	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.48	0.55	56	
	04751-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VF/VY	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.51	0.61	60	
	04751-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VF/VY	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.45	0.55	60	
	04751-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VF/VY	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.45	0.55	60	
	04751-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VF/VY	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.54	0.61	60	
	04751-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VF/VY	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.48	0.55	60	
	04751-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VF/VY	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.48	0.55	60	
	04752-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4"" IG"	VF/VY	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.49	0.60	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4			IA: Keystone Certifications, Inc.													
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04752-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.44	0.54	58	
	04752-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.50	0.60	58	
	04752-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.54	58	
	04753-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.44	0.54	58	
	04753-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	58	
	04753-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.45	0.54	58	
	04753-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	58	
	04754-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VY	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.45	0.56	66	
	04754-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VY	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.41	0.50	66	
	04755-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VY	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.41	0.50	66	
	04755-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VY	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	66	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04756-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VY	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	44	
	04756-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VY	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	44	
	04756-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VY	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	44	
	04757-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VY	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	44	
	04757-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VY	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	44	
	04757-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VY	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	44	
	04758-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VY	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	43	
	04758-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VY	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43	
	04758-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VY	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	43	
	04759-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VY	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43	
	04760-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VY	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4			IA: Keystone Certifications, Inc.												
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	04760-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VF/VY	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42
	04760-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VF/VY	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	42
	04760-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VF/VY	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42
	04761-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VF/VY	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42
	04761-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VF/VY	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42
	04761-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VF/VY	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42
	04761-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VF/VY	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42
	04762-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VY	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	52
	04762-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VY	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	52
	04763-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VY	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	52
	04763-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VY	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04764-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / air / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.54	56	
	04764-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / air / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.48	56	
	04764-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / air / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.48	56	
	04764-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VF/VY	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.54	56	
	04764-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VF/VY	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.32	0.48	56	
	04764-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VF/VY	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.32	0.48	56	
	04765-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.54	59	
	04765-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.26	0.48	59	
	04765-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.48	59	
	04765-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VF/VY	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.36	0.54	59	
	04765-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VF/VY	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.48	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04765-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VY	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.48	59	
	04766-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VY	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.53	55	
	04766-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VY	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.47	55	
	04766-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VY	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.47	55	
	04766-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VY	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.53	55	
	04766-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VY	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.31	0.47	55	
	04766-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VY	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.31	0.47	55	
	04767-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VY	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.53	58	
	04767-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VY	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.25	0.47	58	
	04767-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VY	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.25	0.47	58	
	04767-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VY	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.35	0.53	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04767-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VY	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.47	58	
	04767-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VY	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.47	58	
	04768-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.33	0.52	56	
	04768-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.30	0.47	56	
	04768-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.52	56	
	04768-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	56	
	04769-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	56	
	04769-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	56	
	04769-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	56	
	04769-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	56	
	04770-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VY	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	65	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lysr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04770-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VY	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	65	
	04771-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VY	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	65	
	04771-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VY	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	65	
	04772-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VY	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.21	0.50	56	
	04772-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VY	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	56	
	04772-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VY	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	56	
	04772-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VY	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.50	56	
	04772-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VY	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	56	
	04772-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VY	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	56	
	04773-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VY	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.50	59	
	04773-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VY	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04773-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	59	
	04773-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VY	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.50	59	
	04773-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VY	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	59	
	04773-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VY	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	59	
	04774-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VY	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.30	0.21	0.49	55	
	04774-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VY	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	55	
	04774-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VY	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	55	
	04774-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VY	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.30	0.29	0.49	55	
	04774-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VY	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	55	
	04774-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VY	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	55	
	04775-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VF/VY	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04775-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VY	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	59	
	04775-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VY	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	59	
	04775-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VY	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	59	
	04775-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VY	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	59	
	04775-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VY	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	59	
	04776-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	56	
	04776-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	56	
	04776-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	56	
	04776-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	56	
	04777-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.43	56	
	04777-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04777-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.19	0.43	56	
	04777-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	56	
	04778-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VY	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.19	0.36	66	
	04778-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VY	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	66	
	04779-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VY	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.17	0.32	66	
	04779-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VY	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	66	
	04780-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VY	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	44	
	04780-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VY	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	44	
	04780-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VY	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	44	
	04781-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VY	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	43	
	04781-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VY	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	43	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04781-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VY	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	43	
	04782-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VY	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	43	
	04782-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VY	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43	
	04782-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VY	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	43	
	04783-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VY	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	42	
	04784-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VY	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	42	
	04784-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VY	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42	
	04784-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	42	
	04784-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	04785-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VY	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42	
	04785-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VY	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	

NFRC Product Certification Authorization Report



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City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04785-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VF/VY	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	04785-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VF/VY	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	04786-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VY	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	51	
	04786-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VY	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	51	
	04787-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VY	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	51	
	04787-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VY	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	51	
	04788-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.54	54	
	04788-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.48	54	
	04788-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.48	54	
	04788-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VY	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.37	0.54	54	
	04788-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VY	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.48	54	

NFRC Product Certification Authorization Report



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CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04788-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VY	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.48	54	
	04789-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VY	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.54	58	
	04789-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VY	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.48	58	
	04789-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VY	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.48	58	
	04789-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VY	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.38	0.54	58	
	04789-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VY	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.34	0.48	58	
	04789-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VY	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.34	0.48	58	
	04790-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VY	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	53	
	04790-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VY	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	53	
	04790-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VY	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	53	
	04790-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VY	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04790-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VY	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	53	
	04790-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VY	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	53	
	04791-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VY	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.53	56	
	04791-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VY	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.47	56	
	04791-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VY	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.47	56	
	04791-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VY	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.37	0.53	56	
	04791-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VY	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.33	0.47	56	
	04791-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VY	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.33	0.47	56	
	04792-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.35	0.52	55	
	04792-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	55	
	04792-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.52	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04792-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VY	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	55	
	04793-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VF/VY	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	55	
	04793-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VF/VY	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	55	
	04793-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VY	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	55	
	04793-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VY	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	55	
	04794-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VF/VY	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.26	0.42	62	
	04794-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VF/VY	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	62	
	04795-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VF/VY	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.23	0.37	62	
	04795-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VF/VY	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	62	
	04796-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.62	53	
	04796-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.46	0.55	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04796-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.46	0.55	53	
	04796-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VF/VY	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.54	0.62	53	
	04796-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VF/VY	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.49	0.55	53	
	04796-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VF/VY	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.49	0.55	53	
	04797-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.62	56	
	04797-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.46	0.55	56	
	04797-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VY	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.46	0.55	56	
	04797-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VY	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.62	56	
	04797-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VY	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.49	0.55	56	
	04797-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VY	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.49	0.55	56	
	04798-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refoj Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VF/VY	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.61	52	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04798-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VY	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.45	0.55	52	
	04798-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VY	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.45	0.55	52	
	04798-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VY	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.53	0.61	52	
	04798-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VY	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.48	0.55	52	
	04798-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VY	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.48	0.55	52	
	04799-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VY	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.61	55	
	04799-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VY	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.45	0.55	55	
	04799-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VY	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.45	0.55	55	
	04799-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VY	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.61	55	
	04799-00005	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VY	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.48	0.55	55	
	04799-00006	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VY	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.48	0.55	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04800-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	54	
	04800-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	54	
	04800-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	54	
	04800-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	54	
	04801-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.44	0.54	54	
	04801-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VY	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	54	
	04801-00003	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.45	0.54	54	
	04801-00004	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VY	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	54	
	04802-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VY	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	61	
	04802-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VY	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	61	
	04803-00001	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VY	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.41	0.50	61	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04803-00002	"141.094/142.094/148.094 HS / Opt 7 (No Refo Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VY	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	61	
	04804-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.61	0.63	45	
	04804-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.54	0.56	45	
	04804-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.54	0.56	45	
	04805-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	45	
	04805-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	45	
	04805-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	45	
	04806-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.57	0.62	44	
	04806-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.51	0.55	44	
	04806-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.51	0.55	44	
	04807-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4 IA: Keystone Certifications, Inc.

Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	04808-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	43
	04808-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	43
	04808-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	43
	04808-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	43
	04809-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.49	0.55	43
	04809-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	43
	04809-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43
	04809-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	43
	04810-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.36	0.55	0.58	53
	04810-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.36	0.49	0.52	53
	04811-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.37	0.49	0.52	53

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04811-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	53	
	04812-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.54	58	
	04812-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.48	58	
	04812-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.48	58	
	04812-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.54	58	
	04812-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.32	0.48	58	
	04812-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.32	0.48	58	
	04813-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.54	62	
	04813-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.26	0.48	62	
	04813-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.26	0.48	62	
	04813-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.36	0.54	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04813-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.48	62	
	04813-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.48	62	
	04814-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.53	57	
	04814-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.47	57	
	04814-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.47	57	
	04814-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.53	57	
	04814-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.31	0.47	57	
	04814-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.31	0.47	57	
	04815-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.53	61	
	04815-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.25	0.47	61	
	04815-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.25	0.47	61	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04815-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.35	0.53	61	
	04815-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.47	61	
	04815-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.47	61	
	04816-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.33	0.52	59	
	04816-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.30	0.47	59	
	04816-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.52	59	
	04816-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	59	
	04817-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.30	0.47	59	
	04817-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	59	
	04817-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.25	0.47	59	
	04817-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04818-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	67	
	04818-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	67	
	04819-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	67	
	04819-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	67	
	04820-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.21	0.50	58	
	04820-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	58	
	04820-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	58	
	04820-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.50	58	
	04820-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	58	
	04820-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04821-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.50	62	
	04821-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	62	
	04821-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	62	
	04821-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.50	62	
	04821-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	62	
	04821-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	62	
	04822-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.21	0.49	58	
	04822-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	58	
	04822-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	58	
	04822-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.49	58	
	04822-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04822-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	58	
	04823-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.49	61	
	04823-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	61	
	04823-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	61	
	04823-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.49	61	
	04823-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	61	
	04823-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	61	
	04824-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.48	59	
	04824-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.43	59	
	04824-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.48	59	
	04824-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.43	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04825-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.43	59	
	04825-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	59	
	04825-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.19	0.43	59	
	04825-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	59	
	04826-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.19	0.36	67	
	04826-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	67	
	04827-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.17	0.32	67	
	04827-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	67	
	04828-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.54	58	
	04828-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.48	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04828-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.48	58	
	04828-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.54	58	
	04828-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.48	58	
	04828-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.48	58	
	04829-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.54	62	
	04829-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.48	62	
	04829-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.48	62	
	04829-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.38	0.54	62	
	04829-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.34	0.48	62	
	04829-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.34	0.48	62	
	04830-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.53	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04830-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.47	57	
	04830-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.47	57	
	04830-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.53	57	
	04830-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.47	57	
	04830-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.47	57	
	04831-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.29	0.53	61	
	04831-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.47	61	
	04831-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.47	61	
	04831-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.37	0.53	61	
	04831-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.33	0.47	61	
	04831-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.33	0.47	61	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04832-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.35	0.52	59	
	04832-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.47	59	
	04832-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.52	59	
	04832-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.47	59	
	04833-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.32	0.47	59	
	04833-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	59	
	04833-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.47	59	
	04833-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	59	
	04834-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.26	0.42	67	
	04834-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.23	0.37	67	
	04835-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.23	0.37	67	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04835-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	67	
	04836-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.51	0.62	57	
	04836-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.46	0.55	57	
	04836-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.46	0.55	57	
	04836-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.54	0.62	57	
	04836-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.49	0.55	57	
	04836-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.49	0.55	57	
	04837-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.62	60	
	04837-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.46	0.55	60	
	04837-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.46	0.55	60	
	04837-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.62	60	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04837-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.49	0.55	60	
	04837-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.49	0.55	60	
	04838-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.51	0.61	56	
	04838-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.45	0.55	56	
	04838-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.45	0.55	56	
	04838-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.53	0.61	56	
	04838-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.48	0.55	56	
	04838-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.48	0.55	56	
	04839-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.51	0.61	59	
	04839-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.45	0.55	59	
	04839-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.45	0.55	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04839-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.54	0.61	59	
	04839-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.48	0.55	59	
	04839-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.48	0.55	59	
	04840-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.49	0.60	57	
	04840-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.44	0.54	57	
	04840-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.50	0.60	57	
	04840-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.54	57	
	04841-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.44	0.54	57	
	04841-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	57	
	04841-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.45	0.54	57	
	04841-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	04842-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.45	0.56	66		
	04842-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.41	0.50	66		
	04843-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.41	0.50	66		
	04843-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	66		
	04844-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	44		
	04844-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	44		
	04844-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	44		
	04845-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	43		
	04845-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	43		
	04845-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	43		
	04846-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	43		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04846-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43	
	04846-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	43	
	04847-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43	
	04848-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	42	
	04848-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42	
	04848-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	42	
	04848-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	04849-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42	
	04849-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	04849-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	04849-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04850-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	52	
	04850-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	52	
	04851-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	52	
	04851-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52	
	04852-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.54	55	
	04852-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.48	55	
	04852-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.48	55	
	04852-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.54	55	
	04852-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.32	0.48	55	
	04852-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.32	0.48	55	
	04853-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.54	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04853-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.26	0.48	59	
	04853-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.48	59	
	04853-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.36	0.54	59	
	04853-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.48	59	
	04853-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.48	59	
	04854-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.53	55	
	04854-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.47	55	
	04854-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.47	55	
	04854-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.53	55	
	04854-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.31	0.47	55	
	04854-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.31	0.47	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04855-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.53	58	
	04855-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.25	0.47	58	
	04855-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	58	
	04855-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.53	58	
	04855-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.47	58	
	04855-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	58	
	04856-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.33	0.52	56	
	04856-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.30	0.47	56	
	04856-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.52	56	
	04856-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	56	
	04857-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04857-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	56	
	04857-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	56	
	04857-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	56	
	04858-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	65	
	04858-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	65	
	04859-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	65	
	04859-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	65	
	04860-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.21	0.50	56	
	04860-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	56	
	04860-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04860-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.50	56	
	04860-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	56	
	04860-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	56	
	04861-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.50	59	
	04861-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	59	
	04861-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	59	
	04861-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.50	59	
	04861-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	59	
	04861-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	59	
	04862-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.21	0.49	55	
	04862-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04862-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	55	
	04862-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.49	55	
	04862-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	55	
	04862-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	55	
	04863-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	58	
	04863-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	58	
	04863-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	58	
	04863-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	58	
	04863-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	58	
	04863-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	58	
	04864-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04864-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	56	
	04864-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	56	
	04864-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	56	
	04865-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.43	56	
	04865-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	56	
	04865-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.19	0.43	56	
	04865-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	56	
	04866-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.19	0.36	65	
	04866-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	65	
	04867-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.17	0.32	65	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04867-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	65	
	04868-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	43	
	04868-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	43	
	04868-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	43	
	04869-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	43	
	04869-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	43	
	04869-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	43	
	04870-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	42	
	04870-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	42	
	04870-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	42	
	04871-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04872-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	42	
	04872-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42	
	04872-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	42	
	04872-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	04873-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42	
	04873-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	04873-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	04873-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	04874-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	50	
	04874-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	50	
	04875-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	50	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04875-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	50	
	04876-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.54	54	
	04876-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.48	54	
	04876-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.48	54	
	04876-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.37	0.54	54	
	04876-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.48	54	
	04876-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.48	54	
	04877-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.54	57	
	04877-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.48	57	
	04877-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.48	57	
	04877-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.38	0.54	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04877-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.34	0.48	57	
	04877-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.34	0.48	57	
	04878-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	53	
	04878-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	53	
	04878-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	53	
	04878-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	53	
	04878-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	53	
	04878-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	53	
	04879-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.53	56	
	04879-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.47	56	
	04879-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.47	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	04879-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.37	0.53	56
	04879-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.33	0.47	56
	04879-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.33	0.47	56
	04880-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.35	0.52	55
	04880-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	55
	04880-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.52	55
	04880-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	55
	04881-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	55
	04881-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	55
	04881-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	55
	04881-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	55

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.				
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	04882-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.26	0.42	62		
	04882-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	62		
	04883-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.23	0.37	62		
	04883-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	62		
	04884-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.62	53		
	04884-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.46	0.55	53		
	04884-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.46	0.55	53		
	04884-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.54	0.62	53		
	04884-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.49	0.55	53		
	04884-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.49	0.55	53		
	04885-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.62	56		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04885-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.46	0.55	56	
	04885-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.46	0.55	56	
	04885-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.62	56	
	04885-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.49	0.55	56	
	04885-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.49	0.55	56	
	04886-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.61	52	
	04886-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.45	0.55	52	
	04886-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.45	0.55	52	
	04886-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.53	0.61	52	
	04886-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.48	0.55	52	
	04886-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.48	0.55	52	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	04887-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.61	55																
	04887-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.45	0.55	55																
	04887-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.55	55																
	04887-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.61	55																
	04887-00005	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.48	0.55	55																
	04887-00006	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.48	0.55	55																
	04888-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	53																
	04888-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	53																
	04888-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	53																
	04888-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	53																
	04889-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.44	0.54	53																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04889-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.44	0.54	53	
	04889-00003	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.45	0.54	53	
	04889-00004	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.45	0.54	53	
	04890-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	61	
	04890-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	61	
	04891-00001	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.41	0.50	61	
	04891-00002	"141.094/142.094/148.094 HS / Opt 8 (ALU Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	61	
	04892-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	45	
	04892-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	45	
	04892-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	45	
	04893-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04893-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	44	
	04893-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	44	
	04894-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	44	
	04894-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	44	
	04894-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	44	
	04895-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	44	
	04896-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	43	
	04896-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	43	
	04896-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	43	
	04896-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	43	
	04897-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	43	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04897-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	43	
	04897-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	43	
	04897-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	43	
	04898-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	52	
	04898-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	52	
	04899-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	52	
	04899-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52	
	04900-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.54	58	
	04900-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.48	58	
	04900-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.48	58	
	04900-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.35	0.54	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4			IA: Keystone Certifications, Inc.												
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	04900-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.32	0.48	58
	04900-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.32	0.48	58
	04901-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.54	61
	04901-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.26	0.48	61
	04901-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.48	61
	04901-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.36	0.54	61
	04901-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.48	61
	04901-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.48	61
	04902-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.53	57
	04902-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.47	57
	04902-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.47	57

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4			IA: Keystone Certifications, Inc.												
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	04902-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.35	0.53	57
	04902-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.31	0.47	57
	04902-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.31	0.47	57
	04903-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.53	60
	04903-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.25	0.47	60
	04903-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.25	0.47	60
	04903-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.35	0.53	60
	04903-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.47	60
	04903-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.47	60
	04904-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.33	0.52	58
	04904-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.30	0.47	58

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04904-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.52	58	
	04904-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	58	
	04905-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	58	
	04905-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	58	
	04905-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	58	
	04905-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	58	
	04906-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.24	0.42	66	
	04906-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	66	
	04907-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.22	0.37	66	
	04907-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.22	0.37	66	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04908-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.21	0.50	58	
	04908-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	58	
	04908-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	58	
	04908-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.50	58	
	04908-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	58	
	04908-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	58	
	04909-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.50	62	
	04909-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	62	
	04909-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	62	
	04909-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.50	62	
	04909-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04909-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	62	
	04910-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.21	0.49	57	
	04910-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	57	
	04910-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	57	
	04910-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.49	57	
	04910-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	57	
	04910-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	57	
	04911-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	61	
	04911-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	61	
	04911-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	61	
	04911-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	61	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04911-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	61	
	04911-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	61	
	04912-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	59	
	04912-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	59	
	04912-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	59	
	04912-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	59	
	04913-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.43	59	
	04913-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	59	
	04913-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.19	0.43	59	
	04913-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	59	
	04914-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.19	0.36	67	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.				
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	04914-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	67		
	04915-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.17	0.32	67		
	04915-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	67		
	04916-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.54	58		
	04916-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.48	58		
	04916-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.48	58		
	04916-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.37	0.54	58		
	04916-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.48	58		
	04916-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.48	58		
	04917-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.54	61		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04917-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.48	61	
	04917-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.48	61	
	04917-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.38	0.54	61	
	04917-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.34	0.48	61	
	04917-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.34	0.48	61	
	04918-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	57	
	04918-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	57	
	04918-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	57	
	04918-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	57	
	04918-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	57	
	04918-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04919-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.29	0.53	61	
	04919-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.47	61	
	04919-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.47	61	
	04919-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.37	0.53	61	
	04919-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.33	0.47	61	
	04919-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.33	0.47	61	
	04920-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.35	0.52	58	
	04920-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.47	58	
	04920-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.52	58	
	04920-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.47	58	
	04921-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04921-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	58	
	04921-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	58	
	04921-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	58	
	04922-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.26	0.42	66	
	04922-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	66	
	04923-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.23	0.37	66	
	04923-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	66	
	04924-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.51	0.62	56	
	04924-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.46	0.55	56	
	04924-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.46	0.55	56	
	04924-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.54	0.62	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4			IA: Keystone Certifications, Inc.												
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	04924-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.49	0.55	56
	04924-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.49	0.55	56
	04925-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.62	60
	04925-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.46	0.55	60
	04925-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.46	0.55	60
	04925-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.62	60
	04925-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.49	0.55	60
	04925-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.49	0.55	60
	04926-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.51	0.61	56
	04926-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.45	0.55	56
	04926-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.45	0.55	56

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04926-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.53	0.61	56	
	04926-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.48	0.55	56	
	04926-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.48	0.55	56	
	04927-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.61	59	
	04927-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.45	0.55	59	
	04927-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.45	0.55	59	
	04927-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.61	59	
	04927-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.48	0.55	59	
	04927-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.48	0.55	59	
	04928-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	57	
	04928-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04928-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	57	
	04928-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	57	
	04929-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4"" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.44	0.54	57	
	04929-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4"" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	57	
	04929-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.45	0.54	57	
	04929-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	57	
	04930-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4"" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	65	
	04930-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4"" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	65	
	04931-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4"" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.41	0.50	65	
	04931-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4"" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	65	
	04932-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4"" IG"	VF/VV	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04932-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	44	
	04932-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	44	
	04933-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	43	
	04933-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	43	
	04933-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	43	
	04934-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	43	
	04934-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43	
	04934-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	43	
	04935-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43	
	04936-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	42	
	04936-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04936-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	42	
	04936-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	04937-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	42	
	04937-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	
	04937-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	42	
	04937-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	04938-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.38	0.55	0.58	52	
	04938-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52	
	04939-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	52	
	04939-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52	
	04940-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.54	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04940-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.48	55	
	04940-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.48	55	
	04940-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.35	0.54	55	
	04940-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.32	0.48	55	
	04940-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.32	0.48	55	
	04941-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.54	58	
	04941-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.26	0.48	58	
	04941-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.48	58	
	04941-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.36	0.54	58	
	04941-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.32	0.48	58	
	04941-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.48	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04942-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.53	54	
	04942-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.47	54	
	04942-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.47	54	
	04942-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.35	0.53	54	
	04942-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.31	0.47	54	
	04942-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.31	0.47	54	
	04943-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.53	58	
	04943-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.25	0.47	58	
	04943-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	58	
	04943-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.53	58	
	04943-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.47	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04943-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	58	
	04944-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.33	0.52	55	
	04944-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	55	
	04944-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.28	0.52	55	
	04944-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	55	
	04945-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	55	
	04945-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	55	
	04945-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	55	
	04945-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	55	
	04946-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.24	0.42	64	
	04946-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	64	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	04947-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.22	0.37	64		
	04947-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.22	0.37	64		
	04948-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.21	0.50	55		
	04948-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.19	0.44	55		
	04948-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.19	0.44	55		
	04948-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.50	55		
	04948-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.44	55		
	04948-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.44	55		
	04949-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.50	59		
	04949-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	59		
	04949-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	59		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04949-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.50	59	
	04949-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	59	
	04949-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	59	
	04950-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.21	0.49	55	
	04950-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	55	
	04950-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	55	
	04950-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.49	55	
	04950-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	55	
	04950-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	55	
	04951-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.49	58	
	04951-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04951-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	58	
	04951-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.49	58	
	04951-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	58	
	04951-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	58	
	04952-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.48	56	
	04952-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	56	
	04952-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.21	0.48	56	
	04952-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	56	
	04953-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.43	56	
	04953-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.43	56	
	04953-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.19	0.43	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04953-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.19	0.43	56	
	04954-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.19	0.36	65	
	04954-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	65	
	04955-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.17	0.32	65	
	04955-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	65	
	04956-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	43	
	04956-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	43	
	04956-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	43	
	04957-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	43	
	04957-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	43	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04957-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	43	
	04958-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	42	
	04958-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	42	
	04958-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	04959-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	42	
	04960-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	42	
	04960-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	04960-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	42	
	04960-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	04961-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	42	
	04961-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04961-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	42	
	04961-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	04962-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.38	0.55	0.58	50	
	04962-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	50	
	04963-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.39	0.49	0.52	50	
	04963-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	50	
	04964-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.54	54	
	04964-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.48	54	
	04964-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.48	54	
	04964-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.37	0.54	54	
	04964-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.48	54	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04964-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.48	54	
	04965-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.30	0.54	57	
	04965-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.48	57	
	04965-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.48	57	
	04965-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.38	0.54	57	
	04965-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.34	0.48	57	
	04965-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.34	0.48	57	
	04966-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.53	53	
	04966-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.47	53	
	04966-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.47	53	
	04966-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.37	0.53	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04966-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.47	53	
	04966-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.47	53	
	04967-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.53	56	
	04967-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.47	56	
	04967-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.47	56	
	04967-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.37	0.53	56	
	04967-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.33	0.47	56	
	04967-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.33	0.47	56	
	04968-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.35	0.52	54	
	04968-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	54	
	04968-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.52	54	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
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City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04968-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	54	
	04969-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.32	0.47	54	
	04969-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.32	0.47	54	
	04969-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.26	0.47	54	
	04969-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.26	0.47	54	
	04970-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.26	0.42	61	
	04970-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	61	
	04971-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.23	0.37	61	
	04971-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.23	0.37	61	
	04972-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.51	0.62	53	
	04972-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.46	0.55	53	

NFRC Product Certification Authorization Report



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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04972-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.46	0.55	53	
	04972-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.54	0.62	53	
	04972-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.49	0.55	53	
	04972-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.49	0.55	53	
	04973-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.62	56	
	04973-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.46	0.55	56	
	04973-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.46	0.55	56	
	04973-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.62	56	
	04973-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.49	0.55	56	
	04973-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.49	0.55	56	
	04974-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.61	52	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04974-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.45	0.55	52	
	04974-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.45	0.55	52	
	04974-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.53	0.61	52	
	04974-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.48	0.55	52	
	04974-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.48	0.55	52	
	04975-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.61	55	
	04975-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.45	0.55	55	
	04975-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.55	55	
	04975-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.61	55	
	04975-00005	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.48	0.55	55	
	04975-00006	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.48	0.55	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04976-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.49	0.60	53	
	04976-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	53	
	04976-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.50	0.60	53	
	04976-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	53	
	04977-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.44	0.54	53	
	04977-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.44	0.54	53	
	04977-00003	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.45	0.54	53	
	04977-00004	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.45	0.54	53	
	04978-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.26	0.45	0.56	61	
	04978-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	61	
	04979-00001	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.27	0.41	0.50	61	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04979-00002	"141.094/142.094/148.094 HS / Opt 9 (ALU Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.27	0.41	0.50	61	
	04980-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	45	
	04980-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	45	
	04980-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	45	
	04981-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	45	
	04981-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	45	
	04981-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	45	
	04982-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	44	
	04982-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	44	
	04982-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	44	
	04983-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04984-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	43	
	04984-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	43	
	04984-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	43	
	04984-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	43	
	04985-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	43	
	04985-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	43	
	04985-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	43	
	04985-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	43	
	04986-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	53	
	04986-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04987-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	53	
	04987-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	53	
	04988-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.54	58	
	04988-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.48	58	
	04988-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.48	58	
	04988-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.35	0.54	58	
	04988-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.32	0.48	58	
	04988-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.32	0.48	58	
	04989-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.54	62	
	04989-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.26	0.48	62	
	04989-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.48	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04989-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.36	0.54	62	
	04989-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.48	62	
	04989-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.48	62	
	04990-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.53	57	
	04990-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.47	57	
	04990-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.47	57	
	04990-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.35	0.53	57	
	04990-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.31	0.47	57	
	04990-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.31	0.47	57	
	04991-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.53	61	
	04991-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.25	0.47	61	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04991-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.25	0.47	61	
	04991-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.35	0.53	61	
	04991-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.47	61	
	04991-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.47	61	
	04992-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.33	0.52	59	
	04992-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.30	0.47	59	
	04992-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.52	59	
	04992-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	59	
	04993-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	59	
	04993-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	59	
	04993-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04993-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	59	
	04994-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4"" IG (P1-S)	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.24	0.42	67	
	04994-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4"" IG (P1-S)	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	67	
	04995-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4"" IG (P1-S)	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	67	
	04995-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4"" IG (P1-S)	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	67	
	04996-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.21	0.50	59	
	04996-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	59	
	04996-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	59	
	04996-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.50	59	
	04996-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04996-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	59	
	04997-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.50	62	
	04997-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	62	
	04997-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	62	
	04997-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.50	62	
	04997-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	62	
	04997-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	62	
	04998-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.21	0.49	58	
	04998-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	58	
	04998-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	58	
	04998-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.49	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	04998-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	58	
	04998-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	58	
	04999-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	62	
	04999-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	62	
	04999-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	62	
	04999-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	62	
	04999-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	62	
	04999-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	62	
	05000-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	59	
	05000-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	59	
	05000-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05000-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	59	
	05001-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.43	59	
	05001-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	59	
	05001-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.19	0.43	59	
	05001-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	59	
	05002-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.19	0.36	67	
	05002-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	67	
	05003-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.17	0.32	67	
	05003-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	67	
	05004-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.54	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05004-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.48	58	
	05004-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.48	58	
	05004-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.37	0.54	58	
	05004-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.48	58	
	05004-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.48	58	
	05005-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.54	62	
	05005-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.48	62	
	05005-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.48	62	
	05005-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.38	0.54	62	
	05005-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.34	0.48	62	
	05005-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.34	0.48	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05006-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	57	
	05006-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	57	
	05006-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	57	
	05006-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	57	
	05006-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	57	
	05006-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	57	
	05007-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.29	0.53	61	
	05007-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.47	61	
	05007-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.47	61	
	05007-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.37	0.53	61	
	05007-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.33	0.47	61	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05007-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.33	0.47	61																
	05008-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.35	0.52	59																
	05008-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.47	59																
	05008-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.52	59																
	05008-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.47	59																
	05009-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	59																
	05009-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	59																
	05009-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	59																
	05009-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	59																
	05010-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.26	0.42	67																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	05010-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	67		
	05011-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.23	0.37	67		
	05011-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	67		
	05012-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.51	0.62	57		
	05012-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.46	0.55	57		
	05012-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.46	0.55	57		
	05012-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.54	0.62	57		
	05012-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.49	0.55	57		
	05012-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.49	0.55	57		
	05013-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.62	60		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05013-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.46	0.55	60	
	05013-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.46	0.55	60	
	05013-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.62	60	
	05013-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.49	0.55	60	
	05013-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.49	0.55	60	
	05014-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.51	0.61	56	
	05014-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.45	0.55	56	
	05014-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.45	0.55	56	
	05014-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.53	0.61	56	
	05014-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.48	0.55	56	
	05014-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.48	0.55	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05015-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.61	60	
	05015-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.45	0.55	60	
	05015-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.45	0.55	60	
	05015-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.61	60	
	05015-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.48	0.55	60	
	05015-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.48	0.55	60	
	05016-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	57	
	05016-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	57	
	05016-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	57	
	05016-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	57	
	05017-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.44	0.54	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05017-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	57	
	05017-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.45	0.54	57	
	05017-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	57	
	05018-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	66	
	05018-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	66	
	05019-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.41	0.50	66	
	05019-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	66	
	05020-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	44	
	05020-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	44	
	05020-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4			IA: Keystone Certifications, Inc.												
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05021-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	44
	05021-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	44
	05021-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	44
	05022-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	43
	05022-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43
	05022-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	43
	05023-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43
	05024-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	42
	05024-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42
	05024-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	42
	05024-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05025-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42	
	05025-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4"" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	05025-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	05025-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	05026-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1 -S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	52	
	05026-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1 -S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	52	
	05027-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1 -S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	52	
	05027-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4"" IG (P1 -S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52	
	05028-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.54	55	
	05028-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.48	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05028-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.48	55	
	05028-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.35	0.54	55	
	05028-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.32	0.48	55	
	05028-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.32	0.48	55	
	05029-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.54	59	
	05029-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.26	0.48	59	
	05029-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.48	59	
	05029-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.36	0.54	59	
	05029-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.32	0.48	59	
	05029-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.48	59	
	05030-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.53	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05030-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.47	55	
	05030-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.47	55	
	05030-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.35	0.53	55	
	05030-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.31	0.47	55	
	05030-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.31	0.47	55	
	05031-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.53	58	
	05031-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.25	0.47	58	
	05031-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	58	
	05031-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.53	58	
	05031-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.47	58	
	05031-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05032-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4"" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.33	0.52	56	
	05032-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4"" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	56	
	05032-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.28	0.52	56	
	05032-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	56	
	05033-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4"" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	56	
	05033-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4"" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	56	
	05033-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	56	
	05033-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	56	
	05034-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4"" IG (SS-D)	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.24	0.42	65	
	05034-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4"" IG (SS-D)	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	65	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	05035-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	65		
	05035-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	65		
	05036-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.21	0.50	56		
	05036-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.19	0.44	56		
	05036-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.19	0.44	56		
	05036-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.50	56		
	05036-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.44	56		
	05036-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.44	56		
	05037-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.50	59		
	05037-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	59		
	05037-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	59		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05037-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.50	59	
	05037-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	59	
	05037-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	59	
	05038-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.21	0.49	55	
	05038-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	55	
	05038-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	55	
	05038-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.49	55	
	05038-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	55	
	05038-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	55	
	05039-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.49	59	
	05039-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05039-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	59	
	05039-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.49	59	
	05039-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	59	
	05039-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	59	
	05040-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.48	56	
	05040-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	56	
	05040-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.21	0.48	56	
	05040-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	56	
	05041-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.43	56	
	05041-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.43	56	
	05041-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.19	0.43	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05041-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.19	0.43	56	
	05042-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (SS-D)	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.19	0.36	65	
	05042-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (SS-D)	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	65	
	05043-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (SS-D)	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.17	0.32	65	
	05043-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (SS-D)	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	65	
	05044-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4"" IG"	VF/VV	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	44	
	05044-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4"" IG"	VF/VV	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	44	
	05044-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4"" IG"	VF/VV	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	44	
	05045-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4"" IG"	VF/VV	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	43	
	05045-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4"" IG"	VF/VV	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	43	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05045-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	43	
	05046-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	42	
	05046-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	42	
	05046-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	05047-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	42	
	05048-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	42	
	05048-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	05048-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	42	
	05048-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	05049-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	42	
	05049-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05049-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	42	
	05049-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	05050-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1 -S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.38	0.55	0.58	50	
	05050-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1 -S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	50	
	05051-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1 -S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.39	0.49	0.52	50	
	05051-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1 -S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	50	
	05052-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.54	54	
	05052-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.48	54	
	05052-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.48	54	
	05052-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.37	0.54	54	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05052-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.48	54	
	05052-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.48	54	
	05053-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.30	0.54	57	
	05053-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.48	57	
	05053-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.48	57	
	05053-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.38	0.54	57	
	05053-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.34	0.48	57	
	05053-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.34	0.48	57	
	05054-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.53	53	
	05054-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.47	53	
	05054-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.47	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
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CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05054-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.37	0.53	53	
	05054-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.47	53	
	05054-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.47	53	
	05055-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.53	56	
	05055-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.47	56	
	05055-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.47	56	
	05055-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.37	0.53	56	
	05055-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.33	0.47	56	
	05055-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.33	0.47	56	
	05056-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.35	0.52	55	
	05056-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05056-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.52	55	
	05056-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	55	
	05057-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.32	0.47	55	
	05057-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.32	0.47	55	
	05057-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.26	0.47	55	
	05057-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.26	0.47	55	
	05058-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.26	0.42	62	
	05058-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	62	
	05059-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.23	0.37	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	05059-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.23	0.37	62		
	05060-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.51	0.62	53		
	05060-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.46	0.55	53		
	05060-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.46	0.55	53		
	05060-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.54	0.62	53		
	05060-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.49	0.55	53		
	05060-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.49	0.55	53		
	05061-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.62	56		
	05061-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.46	0.55	56		
	05061-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.46	0.55	56		
	05061-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.62	56		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05061-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.49	0.55	56	
	05061-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.49	0.55	56	
	05062-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.61	52	
	05062-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.45	0.55	52	
	05062-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.45	0.55	52	
	05062-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.53	0.61	52	
	05062-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.48	0.55	52	
	05062-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.48	0.55	52	
	05063-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.61	55	
	05063-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.45	0.55	55	
	05063-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.55	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05063-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.61	55	
	05063-00005	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.48	0.55	55	
	05063-00006	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.48	0.55	55	
	05064-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.49	0.60	54	
	05064-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	54	
	05064-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.50	0.60	54	
	05064-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	54	
	05065-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.44	0.54	54	
	05065-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.44	0.54	54	
	05065-00003	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.45	0.54	54	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
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City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05065-00004	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.45	0.54	54	
	05066-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.26	0.45	0.56	61	
	05066-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	61	
	05067-00001	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.27	0.41	0.50	61	
	05067-00002	"141.094/142.094/148.094 HS / Opt 10 (Heavy ALU Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.27	0.41	0.50	61	
	05068-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.61	0.63	46	
	05068-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.54	0.56	46	
	05068-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.54	0.56	46	
	05069-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	45	
	05069-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	45	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05069-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	45	
	05070-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.57	0.62	45	
	05070-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.51	0.55	45	
	05070-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.51	0.55	45	
	05071-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	45	
	05072-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	44	
	05072-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	44	
	05072-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	44	
	05072-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44	
	05073-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.49	0.55	44	
	05073-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05073-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	44	
	05073-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44	
	05074-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.36	0.55	0.58	53	
	05074-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.36	0.49	0.52	53	
	05075-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.37	0.49	0.52	53	
	05075-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	53	
	05076-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.54	58	
	05076-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.48	58	
	05076-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.48	58	
	05076-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.54	58	
	05076-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.32	0.48	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05076-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.32	0.48	58	
	05077-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.54	62	
	05077-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.26	0.48	62	
	05077-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.26	0.48	62	
	05077-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.36	0.54	62	
	05077-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.48	62	
	05077-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.48	62	
	05078-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.53	58	
	05078-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.47	58	
	05078-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.47	58	
	05078-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.53	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05078-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.31	0.47	58	
	05078-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.31	0.47	58	
	05079-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.28	0.53	61	
	05079-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.25	0.47	61	
	05079-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.25	0.47	61	
	05079-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.35	0.53	61	
	05079-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.32	0.47	61	
	05079-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.32	0.47	61	
	05080-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.33	0.52	59	
	05080-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.30	0.47	59	
	05080-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.52	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05080-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	59	
	05081-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.30	0.47	59	
	05081-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	59	
	05081-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.25	0.47	59	
	05081-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	59	
	05082-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	67	
	05082-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	67	
	05083-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	67	
	05083-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	67	
	05084-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.21	0.50	59	
	05084-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05084-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	59	
	05084-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.50	59	
	05084-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	59	
	05084-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	59	
	05085-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.50	63	
	05085-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	63	
	05085-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	63	
	05085-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.50	63	
	05085-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	63	
	05085-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	63	
	05086-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.21	0.49	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05086-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	58	
	05086-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	58	
	05086-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.49	58	
	05086-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	58	
	05086-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	58	
	05087-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.49	62	
	05087-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	62	
	05087-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	62	
	05087-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.49	62	
	05087-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	62	
	05087-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05088-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.48	60	
	05088-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.43	60	
	05088-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.48	60	
	05088-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.43	60	
	05089-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.26	0.43	60	
	05089-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	60	
	05089-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.19	0.43	60	
	05089-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	60	
	05090-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.19	0.36	68	
	05090-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	68	
	05091-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.17	0.32	68	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	05091-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	68		
	05092-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.54	58		
	05092-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.48	58		
	05092-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.48	58		
	05092-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.54	58		
	05092-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.48	58		
	05092-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.48	58		
	05093-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.54	62		
	05093-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.48	62		
	05093-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.48	62		
	05093-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.38	0.54	62		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05093-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.34	0.48	62	
	05093-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.34	0.48	62	
	05094-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.53	58	
	05094-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.47	58	
	05094-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.47	58	
	05094-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.53	58	
	05094-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.47	58	
	05094-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.47	58	
	05095-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.29	0.53	61	
	05095-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.47	61	
	05095-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.47	61	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05095-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.37	0.53	61	
	05095-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.33	0.47	61	
	05095-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.33	0.47	61	
	05096-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.52	59	
	05096-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	59	
	05096-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.52	59	
	05096-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.47	59	
	05097-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.32	0.47	59	
	05097-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	59	
	05097-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.47	59	
	05097-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.				
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	05098-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.26	0.42	67		
	05098-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.23	0.37	67		
	05099-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.23	0.37	67		
	05099-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	67		
	05100-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.51	0.62	57		
	05100-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.46	0.55	57		
	05100-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.46	0.55	57		
	05100-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.54	0.62	57		
	05100-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.49	0.55	57		
	05100-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.49	0.55	57		
	05101-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.51	0.62	61		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05101-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.46	0.55	61	
	05101-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.46	0.55	61	
	05101-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.54	0.62	61	
	05101-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.49	0.55	61	
	05101-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.49	0.55	61	
	05102-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.51	0.61	56	
	05102-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.45	0.55	56	
	05102-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.45	0.55	56	
	05102-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.53	0.61	56	
	05102-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.48	0.55	56	
	05102-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.48	0.55	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05103-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.51	0.61	60	
	05103-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.45	0.55	60	
	05103-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.45	0.55	60	
	05103-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.54	0.61	60	
	05103-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.48	0.55	60	
	05103-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.48	0.55	60	
	05104-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.49	0.60	58	
	05104-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.44	0.54	58	
	05104-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.50	0.60	58	
	05104-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.54	58	
	05105-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.44	0.54	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05105-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	58	
	05105-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.45	0.54	58	
	05105-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	58	
	05106-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.45	0.56	66	
	05106-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.41	0.50	66	
	05107-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.41	0.50	66	
	05107-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	66	
	05108-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	44	
	05108-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	44	
	05108-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	44	
	05109-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05109-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	44	
	05109-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	44	
	05110-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	43	
	05110-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43	
	05110-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	43	
	05111-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43	
	05112-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	42	
	05112-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42	
	05112-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	42	
	05112-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	05113-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05113-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	05113-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	05113-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	05114-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	52	
	05114-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	52	
	05115-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	52	
	05115-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52	
	05116-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.54	56	
	05116-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.48	56	
	05116-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.48	56	
	05116-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.54	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05116-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.32	0.48	56	
	05116-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.32	0.48	56	
	05117-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.54	59	
	05117-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.26	0.48	59	
	05117-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.48	59	
	05117-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.36	0.54	59	
	05117-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.48	59	
	05117-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.48	59	
	05118-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.53	55	
	05118-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.47	55	
	05118-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.47	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05118-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.53	55	
	05118-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.31	0.47	55	
	05118-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.31	0.47	55	
	05119-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.53	58	
	05119-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.25	0.47	58	
	05119-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.25	0.47	58	
	05119-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.35	0.53	58	
	05119-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.47	58	
	05119-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.47	58	
	05120-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.33	0.52	56	
	05120-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.30	0.47	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05120-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.52	56	
	05120-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	56	
	05121-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	56	
	05121-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	56	
	05121-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	56	
	05121-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	56	
	05122-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	65	
	05122-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	65	
	05123-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	65	
	05123-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	65	
	05124-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.21	0.50	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05124-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	56	
	05124-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	56	
	05124-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.50	56	
	05124-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	56	
	05124-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	56	
	05125-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.50	59	
	05125-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	59	
	05125-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	59	
	05125-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.50	59	
	05125-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	59	
	05125-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05126-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.30	0.21	0.49	55	
	05126-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	55	
	05126-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	55	
	05126-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.30	0.29	0.49	55	
	05126-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	55	
	05126-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	55	
	05127-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	59	
	05127-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	59	
	05127-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	59	
	05127-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	59	
	05127-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05127-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	59	
	05128-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	56	
	05128-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	56	
	05128-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	56	
	05128-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	56	
	05129-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.43	56	
	05129-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	56	
	05129-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.19	0.43	56	
	05129-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	56	
	05130-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.19	0.36	66	
	05130-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	66	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	05131-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.17	0.32	66		
	05131-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	66		
	05132-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	44		
	05132-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	44		
	05132-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	44		
	05133-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	43		
	05133-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	43		
	05133-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	43		
	05134-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	42		
	05134-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	42		
	05134-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	42		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05135-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	42	
	05136-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	42	
	05136-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42	
	05136-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	42	
	05136-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	05137-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42	
	05137-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	05137-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	05137-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	05138-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	50	
	05138-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	50	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05139-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	50	
	05139-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	50	
	05140-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.54	54	
	05140-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.48	54	
	05140-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.48	54	
	05140-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.37	0.54	54	
	05140-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.48	54	
	05140-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.48	54	
	05141-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.54	57	
	05141-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.48	57	
	05141-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.48	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05141-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.38	0.54	57	
	05141-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.34	0.48	57	
	05141-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.34	0.48	57	
	05142-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	53	
	05142-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	53	
	05142-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	53	
	05142-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	53	
	05142-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	53	
	05142-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	53	
	05143-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.53	56	
	05143-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.47	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05143-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.47	56	
	05143-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.37	0.53	56	
	05143-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.33	0.47	56	
	05143-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.33	0.47	56	
	05144-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.35	0.52	55	
	05144-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	55	
	05144-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.52	55	
	05144-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	55	
	05145-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	55	
	05145-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	55	
	05145-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05145-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	55	
	05146-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.26	0.42	62	
	05146-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	62	
	05147-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.23	0.37	62	
	05147-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	62	
	05148-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.62	53	
	05148-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.46	0.55	53	
	05148-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.46	0.55	53	
	05148-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.54	0.62	53	
	05148-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.49	0.55	53	
	05148-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.49	0.55	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05149-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.62	56	
	05149-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.46	0.55	56	
	05149-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.46	0.55	56	
	05149-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.62	56	
	05149-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.49	0.55	56	
	05149-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.49	0.55	56	
	05150-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.61	52	
	05150-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.45	0.55	52	
	05150-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.45	0.55	52	
	05150-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.53	0.61	52	
	05150-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.48	0.55	52	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05150-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.48	0.55	52	
	05151-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.61	55	
	05151-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.45	0.55	55	
	05151-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.55	55	
	05151-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.61	55	
	05151-00005	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.48	0.55	55	
	05151-00006	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.48	0.55	55	
	05152-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	54	
	05152-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	54	
	05152-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	54	
	05152-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	54	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05153-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.44	0.54	54	
	05153-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.44	0.54	54	
	05153-00003	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.45	0.54	54	
	05153-00004	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.45	0.54	54	
	05154-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	61	
	05154-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	61	
	05155-00001	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.41	0.50	61	
	05155-00002	"141.094/142.094/148.094 HS / Opt 11 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	61	
	05156-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.61	0.63	46	
	05156-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.54	0.56	46	
	05156-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.54	0.56	46	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05157-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	45	
	05157-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	45	
	05157-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	45	
	05158-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.57	0.62	45	
	05158-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.51	0.55	45	
	05158-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.51	0.55	45	
	05159-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	45	
	05160-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	44	
	05160-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	44	
	05160-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	44	
	05160-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05161-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.49	0.55	44	
	05161-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	44	
	05161-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	44	
	05161-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44	
	05162-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.36	0.55	0.58	53	
	05162-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.36	0.49	0.52	53	
	05163-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.37	0.49	0.52	53	
	05163-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	53	
	05164-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.54	58	
	05164-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.48	58	
	05164-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.48	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05164-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.54	58	
	05164-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.32	0.48	58	
	05164-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.32	0.48	58	
	05165-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.54	62	
	05165-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.26	0.48	62	
	05165-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.26	0.48	62	
	05165-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.36	0.54	62	
	05165-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.48	62	
	05165-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.48	62	
	05166-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.53	58	
	05166-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.47	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05166-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.47	58	
	05166-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.53	58	
	05166-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.31	0.47	58	
	05166-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.31	0.47	58	
	05167-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.53	61	
	05167-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.25	0.47	61	
	05167-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.25	0.47	61	
	05167-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.35	0.53	61	
	05167-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.47	61	
	05167-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.47	61	
	05168-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / arg / E270 (DS)090(DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.33	0.52	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05168-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.30	0.47	59	
	05168-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.52	59	
	05168-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	59	
	05169-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.30	0.47	59	
	05169-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	59	
	05169-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.25	0.47	59	
	05169-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	59	
	05170-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	67	
	05170-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	67	
	05171-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	67	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	05171-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	67		
	05172-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.21	0.50	59		
	05172-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	59		
	05172-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	59		
	05172-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.50	59		
	05172-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	59		
	05172-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	59		
	05173-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.50	63		
	05173-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	63		
	05173-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	63		
	05173-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.50	63		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05173-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	63	
	05173-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	63	
	05174-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.21	0.49	58	
	05174-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	58	
	05174-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	58	
	05174-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.49	58	
	05174-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	58	
	05174-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	58	
	05175-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.49	62	
	05175-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	62	
	05175-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05175-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.49	62	
	05175-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	62	
	05175-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	62	
	05176-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.48	60	
	05176-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.43	60	
	05176-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.48	60	
	05176-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.43	60	
	05177-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.43	60	
	05177-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	60	
	05177-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.19	0.43	60	
	05177-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	60	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05178-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.19	0.36	68	
	05178-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	68	
	05179-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.17	0.32	68	
	05179-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	68	
	05180-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.54	58	
	05180-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.48	58	
	05180-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.48	58	
	05180-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.54	58	
	05180-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.48	58	
	05180-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.48	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05181-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.54	62	
	05181-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.48	62	
	05181-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.48	62	
	05181-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.38	0.54	62	
	05181-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.34	0.48	62	
	05181-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.34	0.48	62	
	05182-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.53	58	
	05182-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.47	58	
	05182-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.47	58	
	05182-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.53	58	
	05182-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.47	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05182-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.47	58	
	05183-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.29	0.53	61	
	05183-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.47	61	
	05183-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.47	61	
	05183-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.37	0.53	61	
	05183-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.33	0.47	61	
	05183-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.33	0.47	61	
	05184-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.35	0.52	59	
	05184-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.47	59	
	05184-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.52	59	
	05184-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.47	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05185-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.32	0.47	59	
	05185-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	59	
	05185-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.47	59	
	05185-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	59	
	05186-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.26	0.42	67	
	05186-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.23	0.37	67	
	05187-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.23	0.37	67	
	05187-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	67	
	05188-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.51	0.62	57	
	05188-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.46	0.55	57	
	05188-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.46	0.55	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2- Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05188-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.54	0.62	57	
	05188-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.49	0.55	57	
	05188-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.49	0.55	57	
	05189-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.62	61	
	05189-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.46	0.55	61	
	05189-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.46	0.55	61	
	05189-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.62	61	
	05189-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.49	0.55	61	
	05189-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.49	0.55	61	
	05190-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.51	0.61	56	
	05190-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.45	0.55	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05190-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.45	0.55	56	
	05190-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.53	0.61	56	
	05190-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.48	0.55	56	
	05190-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.48	0.55	56	
	05191-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.51	0.61	60	
	05191-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.45	0.55	60	
	05191-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.45	0.55	60	
	05191-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.54	0.61	60	
	05191-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.48	0.55	60	
	05191-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.48	0.55	60	
	05192-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.49	0.60	58	

NFRC Product Certification Authorization Report



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CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05192-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.44	0.54	58	
	05192-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.50	0.60	58	
	05192-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.54	58	
	05193-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.44	0.54	58	
	05193-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	58	
	05193-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.45	0.54	58	
	05193-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	58	
	05194-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.45	0.56	66	
	05194-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.41	0.50	66	
	05195-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.41	0.50	66	
	05195-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	66	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05196-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	44	
	05196-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	44	
	05196-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	44	
	05197-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	44	
	05197-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	44	
	05197-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	44	
	05198-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	43	
	05198-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43	
	05198-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	43	
	05199-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43	
	05200-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05200-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42	
	05200-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	42	
	05200-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	05201-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42	
	05201-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	05201-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	05201-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	05202-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	52	
	05202-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	52	
	05203-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	52	
	05203-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05204-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.54	56	
	05204-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.48	56	
	05204-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.48	56	
	05204-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.54	56	
	05204-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.32	0.48	56	
	05204-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.32	0.48	56	
	05205-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.54	59	
	05205-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.26	0.48	59	
	05205-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.48	59	
	05205-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.36	0.54	59	
	05205-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.48	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05205-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.48	59	
	05206-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.53	55	
	05206-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.47	55	
	05206-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.47	55	
	05206-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.53	55	
	05206-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.31	0.47	55	
	05206-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.31	0.47	55	
	05207-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.53	58	
	05207-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.25	0.47	58	
	05207-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.25	0.47	58	
	05207-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.35	0.53	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05207-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.47	58	
	05207-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.47	58	
	05208-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.33	0.52	56	
	05208-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.30	0.47	56	
	05208-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.52	56	
	05208-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	56	
	05209-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	56	
	05209-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	56	
	05209-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	56	
	05209-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	56	
	05210-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	65	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.				
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	05210-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	65		
	05211-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	65		
	05211-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	65		
	05212-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.21	0.50	56		
	05212-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	56		
	05212-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	56		
	05212-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.50	56		
	05212-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	56		
	05212-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	56		
	05213-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.50	59		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05213-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	59	
	05213-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	59	
	05213-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.50	59	
	05213-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	59	
	05213-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	59	
	05214-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.21	0.49	55	
	05214-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	55	
	05214-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	55	
	05214-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.49	55	
	05214-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	55	
	05214-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/SJ Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05215-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	59	
	05215-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	59	
	05215-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	59	
	05215-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	59	
	05215-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	59	
	05215-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	59	
	05216-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	56	
	05216-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	56	
	05216-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	56	
	05216-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	56	
	05217-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.43	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05217-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	56	
	05217-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.19	0.43	56	
	05217-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	56	
	05218-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.19	0.36	66	
	05218-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	66	
	05219-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.17	0.32	65	
	05219-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	65	
	05220-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	44	
	05220-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	44	
	05220-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05221-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	43	
	05221-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	43	
	05221-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	43	
	05222-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	42	
	05222-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	42	
	05222-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	42	
	05223-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	42	
	05224-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	42	
	05224-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42	
	05224-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	42	
	05224-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05225-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / air / clr (DS)090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42	
	05225-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / air / clr (DS)090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	05225-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / lami (DS/DS)090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	05225-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / lami (DS/DS)090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	05226-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	50	
	05226-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	50	
	05227-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	50	
	05227-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	50	
	05228-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.54	54	
	05228-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.48	54	
	05228-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.48	54	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2- Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05228-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.37	0.54	54	
	05228-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.48	54	
	05228-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.48	54	
	05229-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.54	57	
	05229-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.48	57	
	05229-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.48	57	
	05229-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.38	0.54	57	
	05229-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.34	0.48	57	
	05229-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.34	0.48	57	
	05230-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	53	
	05230-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05230-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	53	
	05230-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	53	
	05230-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	53	
	05230-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	53	
	05231-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.53	56	
	05231-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.47	56	
	05231-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.47	56	
	05231-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.37	0.53	56	
	05231-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.33	0.47	56	
	05231-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.33	0.47	56	
	05232-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.35	0.52	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05232-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	55	
	05232-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.52	55	
	05232-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	55	
	05233-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	55	
	05233-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	55	
	05233-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	55	
	05233-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	55	
	05234-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.26	0.42	62	
	05234-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	62	
	05235-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.23	0.37	62	
	05235-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
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City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05236-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.62	53	
	05236-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.46	0.55	53	
	05236-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.46	0.55	53	
	05236-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.54	0.62	53	
	05236-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.49	0.55	53	
	05236-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.49	0.55	53	
	05237-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.62	56	
	05237-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.46	0.55	56	
	05237-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.46	0.55	56	
	05237-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.62	56	
	05237-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.49	0.55	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05237-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.49	0.55	56	
	05238-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.61	52	
	05238-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.45	0.55	52	
	05238-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.45	0.55	52	
	05238-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.53	0.61	52	
	05238-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.48	0.55	52	
	05238-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.48	0.55	52	
	05239-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.61	55	
	05239-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.45	0.55	55	
	05239-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.55	55	
	05239-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.61	55	

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Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05239-00005	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.48	0.55	55	
	05239-00006	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.48	0.55	55	
	05240-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	54	
	05240-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	54	
	05240-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	54	
	05240-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	54	
	05241-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.44	0.54	54	
	05241-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.44	0.54	54	
	05241-00003	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.45	0.54	54	
	05241-00004	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.45	0.54	54	
	05242-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	61	

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VR (Enhanced Screen):

CPD Number: AMW-K-4 IA: Keystone Certifications, Inc.

Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05242-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	61
	05243-00001	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.41	0.50	61
	05243-00002	"141.094/142.094/148.094 HS / Opt 12 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	61
	05244-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	46
	05244-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	46
	05244-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	46
	05245-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	45
	05245-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	45
	05245-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	45
	05246-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	45
	05246-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	45
	05246-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	45
	05247-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	45
	05248-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	44

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Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05248-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	44	
	05248-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	44	
	05248-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	44	
	05249-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	44	
	05249-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	44	
	05249-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	44	
	05249-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	44	
	05250-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	53	
	05250-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	53	
	05251-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	53	
	05251-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	53	
	05252-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.54	59	

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	05252-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.48	59	
	05252-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.48	59	
	05252-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.35	0.54	59	
	05252-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.32	0.48	59	
	05252-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.32	0.48	59	
	05253-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.54	62	
	05253-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.26	0.48	62	
	05253-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.48	62	
	05253-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.36	0.54	62	
	05253-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.48	62	
	05253-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.48	62	
	05254-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.53	58	
	05254-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.47	58	
	05254-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.47	58	
	05254-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.35	0.53	58	
	05254-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.31	0.47	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05254-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.31	0.47	58	
	05255-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.53	62	
	05255-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.25	0.47	62	
	05255-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.25	0.47	62	
	05255-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.35	0.53	62	
	05255-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.47	62	
	05255-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.47	62	
	05256-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.33	0.52	59	
	05256-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.30	0.47	59	
	05256-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.52	59	
	05256-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	59	
	05257-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	59	
	05257-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05257-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090) DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	59																
	05257-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090) DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	59																
	05258-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.24	0.42	68																
	05258-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	68																
	05259-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.22	0.37	68																
	05259-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.22	0.37	68																
	05260-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.21	0.50	59																
	05260-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	59																
	05260-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	59																
	05260-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.50	59																
	05260-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	59																
	05260-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	59																
	05261-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.50	63																
	05261-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	63																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05261-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	63	
	05261-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.50	63	
	05261-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	63	
	05261-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	63	
	05262-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.21	0.49	58	
	05262-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	58	
	05262-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	58	
	05262-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.49	58	
	05262-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	58	
	05262-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	58	
	05263-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	62	
	05263-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	62	
	05263-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	62	
	05263-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	62	
	05263-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	62	
	05263-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05264-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	60	
	05264-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	60	
	05264-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	60	
	05264-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	60	
	05265-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.43	60	
	05265-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	60	
	05265-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.19	0.43	60	
	05265-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	60	
	05266-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.19	0.36	68	
	05266-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	68	
	05267-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.17	0.32	68	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05267-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (P1-S)"	VY/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	68	
	05268-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.54	59	
	05268-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.48	59	
	05268-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.48	59	
	05268-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.37	0.54	59	
	05268-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.48	59	
	05268-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.48	59	
	05269-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.54	62	
	05269-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.48	62	
	05269-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.48	62	
	05269-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.38	0.54	62	
	05269-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.34	0.48	62	
	05269-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.34	0.48	62	
	05270-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	58	
	05270-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	58	
	05270-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05270-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	58	
	05270-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	58	
	05270-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	58	
	05271-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.29	0.53	62	
	05271-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.47	62	
	05271-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.47	62	
	05271-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.37	0.53	62	
	05271-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.33	0.47	62	
	05271-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.33	0.47	62	
	05272-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.35	0.52	59	
	05272-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.47	59	
	05272-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.52	59	
	05272-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.47	59	
	05273-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05273-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	59																
	05273-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	59																
	05273-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	59																
	05274-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.26	0.42	68																
	05274-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	68																
	05275-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.23	0.37	68																
	05275-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	68																
	05276-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.51	0.62	57																
	05276-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.46	0.55	57																
	05276-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.46	0.55	57																
	05276-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.54	0.62	57																
	05276-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.49	0.55	57																
	05276-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.49	0.55	57																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05277-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.62	61	
	05277-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.46	0.55	61	
	05277-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.46	0.55	61	
	05277-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.62	61	
	05277-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.49	0.55	61	
	05277-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.49	0.55	61	
	05278-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.51	0.61	56	
	05278-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.45	0.55	56	
	05278-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.45	0.55	56	
	05278-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.53	0.61	56	
	05278-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.48	0.55	56	
	05278-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.48	0.55	56	
	05279-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.61	60	
	05279-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.45	0.55	60	
	05279-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.45	0.55	60	
	05279-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.61	60	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05279-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.48	0.55	60	
	05279-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.48	0.55	60	
	05280-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	58	
	05280-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	58	
	05280-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	58	
	05280-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	58	
	05281-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.44	0.54	58	
	05281-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	58	
	05281-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.45	0.54	58	
	05281-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	58	
	05282-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	66	
	05282-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	66	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4 IA: Keystone Certifications, Inc.

Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05283-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.41	0.50	66
	05283-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	66
	05284-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.61	0.63	44
	05284-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.54	0.56	44
	05284-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.54	0.56	44
	05285-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	44
	05285-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	44
	05285-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	44
	05286-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	43
	05286-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43
	05286-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	43
	05287-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43
	05288-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	42
	05288-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05288-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	42	
	05288-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	05289-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	42	
	05289-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	
	05289-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	42	
	05289-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	05290-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.38	0.55	0.58	52	
	05290-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52	
	05291-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.39	0.49	0.52	52	
	05291-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	52	
	05292-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.54	56	
	05292-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.48	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05292-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.48	56	
	05292-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.35	0.54	56	
	05292-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.32	0.48	56	
	05292-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.32	0.48	56	
	05293-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.54	59	
	05293-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.26	0.48	59	
	05293-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.48	59	
	05293-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.36	0.54	59	
	05293-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.32	0.48	59	
	05293-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.48	59	
	05294-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.53	55	
	05294-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.47	55	
	05294-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.47	55	
	05294-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.35	0.53	55	
	05294-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.31	0.47	55	
	05294-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.31	0.47	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05295-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.53	58	
	05295-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.25	0.47	58	
	05295-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	58	
	05295-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.53	58	
	05295-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.47	58	
	05295-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	58	
	05296-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.33	0.52	56	
	05296-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	56	
	05296-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.28	0.52	56	
	05296-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	56	
	05297-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.30	0.47	56	
	05297-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.30	0.47	56	
	05297-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.25	0.47	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05297-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090) DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.25	0.47	56																
	05298-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.24	0.42	66																
	05298-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	66																
	05299-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.22	0.37	66																
	05299-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.22	0.37	66																
	05300-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.21	0.50	56																
	05300-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.19	0.44	56																
	05300-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.19	0.44	56																
	05300-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.50	56																
	05300-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.44	56																
	05300-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.44	56																
	05301-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.50	59																
	05301-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	59																
	05301-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	59																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05301-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.50	59	
	05301-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	59	
	05301-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	59	
	05302-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.21	0.49	55	
	05302-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	55	
	05302-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	55	
	05302-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.49	55	
	05302-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	55	
	05302-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	55	
	05303-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.49	59	
	05303-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	59	
	05303-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	59	
	05303-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.49	59	
	05303-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	59	
	05303-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	59	
	05304-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.48	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05304-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	56	
	05304-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.21	0.48	56	
	05304-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	56	
	05305-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.43	56	
	05305-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.43	56	
	05305-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.19	0.43	56	
	05305-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.19	0.43	56	
	05306-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.19	0.36	66	
	05306-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	66	
	05307-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.17	0.32	66	
	05307-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	66	
	05308-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.61	0.63	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05308-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.54	0.56	44	
	05308-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.54	0.56	44	
	05309-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.59	0.62	43	
	05309-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.53	0.56	43	
	05309-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.53	0.56	43	
	05310-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	43	
	05310-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43	
	05310-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	43	
	05311-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43	
	05312-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	42	
	05312-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	05312-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	42	
	05312-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	05313-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05313-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42
	05313-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	42
	05313-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42
	05314-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.38	0.55	0.58	51
	05314-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	51
	05315-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.39	0.49	0.52	51
	05315-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	51
	05316-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.54	55
	05316-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.48	55
	05316-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.48	55
	05316-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.37	0.54	55
	05316-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.48	55
	05316-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.48	55

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05317-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.30	0.54	58	
	05317-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.48	58	
	05317-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.48	58	
	05317-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.38	0.54	58	
	05317-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.34	0.48	58	
	05317-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.34	0.48	58	
	05318-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.53	53	
	05318-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.47	53	
	05318-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.47	53	
	05318-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.37	0.53	53	
	05318-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.47	53	
	05318-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.47	53	
	05319-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.53	56	
	05319-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.47	56	
	05319-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.47	56	
	05319-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.37	0.53	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05319-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.33	0.47	56	
	05319-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.33	0.47	56	
	05320-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.35	0.52	55	
	05320-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	55	
	05320-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.29	0.52	55	
	05320-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	55	
	05321-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.32	0.47	55	
	05321-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.32	0.47	55	
	05321-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.26	0.47	55	
	05321-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.26	0.47	55	
	05322-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.26	0.42	63	
	05322-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	63	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	05323-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.23	0.37	62		
	05323-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.23	0.37	62		
	05324-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.51	0.62	53		
	05324-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.46	0.55	53		
	05324-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.46	0.55	53		
	05324-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.54	0.62	53		
	05324-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.49	0.55	53		
	05324-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.49	0.55	53		
	05325-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.51	0.62	56		
	05325-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.46	0.55	56		
	05325-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.46	0.55	56		
	05325-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.54	0.62	56		
	05325-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.49	0.55	56		
	05325-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.49	0.55	56		
	05326-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.51	0.61	52		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05326-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.45	0.55	52	
	05326-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.45	0.55	52	
	05326-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.53	0.61	52	
	05326-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.48	0.55	52	
	05326-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.48	0.55	52	
	05327-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.61	55	
	05327-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.45	0.55	55	
	05327-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.55	55	
	05327-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.61	55	
	05327-00005	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.48	0.55	55	
	05327-00006	"141.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.48	0.55	55	
	05328-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.49	0.60	54	
	05328-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	54	
	05328-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.50	0.60	54	
	05328-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	54	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05329-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090) DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.34	0.44	0.54	54																
	05329-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090) DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.34	0.44	0.54	54																
	05329-00003	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090) DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.34	0.45	0.54	54																
	05329-00004	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090) DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.34	0.45	0.54	54																
	05330-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.26	0.45	0.56	62																
	05330-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	62																
	05331-00001	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.27	0.41	0.50	62																
	05331-00002	"141.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.27	0.41	0.50	62																
	05332-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	46																
	05332-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	46																
	05332-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	46																
	05333-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	45																
	05333-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	45																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05333-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	45	
	05334-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	45	
	05334-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	45	
	05334-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	45	
	05335-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	45	
	05336-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	44	
	05336-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	44	
	05336-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	44	
	05336-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	44	
	05337-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	44	
	05337-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	44	
	05337-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	44	
	05337-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05338-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	53	
	05338-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	53	
	05339-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	53	
	05339-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	53	
	05340-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.54	59	
	05340-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.48	59	
	05340-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.48	59	
	05340-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.35	0.54	59	
	05340-00005	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.32	0.48	59	
	05340-00006	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.32	0.48	59	
	05341-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.54	62	
	05341-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.26	0.48	62	
	05341-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.48	62	
	05341-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.36	0.54	62	
	05341-00005	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.48	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05341-00006	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.48	62	
	05342-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.53	58	
	05342-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.47	58	
	05342-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.47	58	
	05342-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.35	0.53	58	
	05342-00005	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.31	0.47	58	
	05342-00006	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.31	0.47	58	
	05343-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.53	61	
	05343-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.25	0.47	61	
	05343-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	61	
	05343-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.53	61	
	05343-00005	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.47	61	
	05343-00006	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	61	
	05344-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.33	0.52	59	
	05344-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05344-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.28	0.52	59	
	05344-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	59	
	05345-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	59	
	05345-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	59	
	05345-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	59	
	05345-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	59	
	05346-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.24	0.42	68	
	05346-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	68	
	05347-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.22	0.37	68	
	05347-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.22	0.37	68	
	05348-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.21	0.50	59	
	05348-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05348-00003	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	59																
	05348-00004	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.50	59																
	05348-00005	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	59																
	05348-00006	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	59																
	05349-00001	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.50	63																
	05349-00002	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	63																
	05349-00003	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	63																
	05349-00004	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.50	63																
	05349-00005	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	63																
	05349-00006	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	63																
	05350-00001	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.21	0.49	58																
	05350-00002	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	58																
	05350-00003	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	58																
	05350-00004	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.49	58																
	05350-00005	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	58																
	05350-00006	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	58																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05351-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	62	
	05351-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	62	
	05351-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	62	
	05351-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	62	
	05351-00005	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	62	
	05351-00006	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	62	
	05352-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	60	
	05352-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	60	
	05352-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	60	
	05352-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	60	
	05353-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.43	60	
	05353-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.43	60	
	05353-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.19	0.43	60	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05353-00004	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.19	0.43	60	
	05354-00001	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.19	0.36	68	
	05354-00002	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	68	
	05355-00001	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.17	0.32	68	
	05355-00002	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	68	
	05356-00001	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.54	59	
	05356-00002	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.48	59	
	05356-00003	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.48	59	
	05356-00004	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.37	0.54	59	
	05356-00005	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.48	59	
	05356-00006	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.48	59	
	05357-00001	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.54	62	
	05357-00002	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.48	62	
	05357-00003	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.48	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05357-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.38	0.54	62	
	05357-00005	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.34	0.48	62	
	05357-00006	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.34	0.48	62	
	05358-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	58	
	05358-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	58	
	05358-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	58	
	05358-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	58	
	05358-00005	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	58	
	05358-00006	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	58	
	05359-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.29	0.53	61	
	05359-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.47	61	
	05359-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.47	61	
	05359-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.37	0.53	61	
	05359-00005	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.33	0.47	61	
	05359-00006	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.33	0.47	61	
	05360-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.35	0.52	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05360-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.47	59	
	05360-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.52	59	
	05360-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.47	59	
	05361-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	59	
	05361-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	59	
	05361-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	59	
	05361-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	59	
	05362-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.26	0.42	68	
	05362-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	68	
	05363-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.23	0.37	68	
	05363-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	68	
	05364-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.51	0.62	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4			IA: Keystone Certifications, Inc.												
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05364-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.46	0.55	57
	05364-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.46	0.55	57
	05364-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.33	0.54	0.62	57
	05364-00005	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.33	0.49	0.55	57
	05364-00006	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.33	0.49	0.55	57
	05365-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.62	61
	05365-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.46	0.55	61
	05365-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.46	0.55	61
	05365-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.62	61
	05365-00005	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.49	0.55	61
	05365-00006	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.49	0.55	61
	05366-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.51	0.61	56
	05366-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.45	0.55	56
	05366-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.45	0.55	56
	05366-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.53	0.61	56
	05366-00005	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.48	0.55	56

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05366-00006	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.48	0.55	56	
	05367-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.61	60	
	05367-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.45	0.55	60	
	05367-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.45	0.55	60	
	05367-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.61	60	
	05367-00005	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.48	0.55	60	
	05367-00006	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.48	0.55	60	
	05368-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	58	
	05368-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	58	
	05368-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	58	
	05368-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	58	
	05369-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.44	0.54	58	
	05369-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05369-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090) DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.45	0.54	58	
	05369-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090) DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	58	
	05370-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	66	
	05370-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	66	
	05371-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.41	0.50	66	
	05371-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	66	
	05372-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.61	0.63	44	
	05372-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.54	0.56	44	
	05372-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.54	0.56	44	
	05373-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	44	
	05373-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	44	
	05373-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	44	
	05374-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	44	
	05374-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05374-00003	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44	
	05375-00001	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	44	
	05376-00001	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	42	
	05376-00002	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	05376-00003	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	42	
	05376-00004	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	05377-00001	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	42	
	05377-00002	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	
	05377-00003	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	42	
	05377-00004	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	05378-00001	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.38	0.55	0.58	52	
	05378-00002	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05379-00001	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.39	0.49	0.52	52	
	05379-00002	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	52	
	05380-00001	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.54	56	
	05380-00002	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.48	56	
	05380-00003	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.48	56	
	05380-00004	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.35	0.54	56	
	05380-00005	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.32	0.48	56	
	05380-00006	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.32	0.48	56	
	05381-00001	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.54	59	
	05381-00002	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.26	0.48	59	
	05381-00003	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.48	59	
	05381-00004	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.36	0.54	59	
	05381-00005	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.32	0.48	59	
	05381-00006	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.48	59	
	05382-00001	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.53	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05382-00002	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.47	55	
	05382-00003	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.47	55	
	05382-00004	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.35	0.53	55	
	05382-00005	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.31	0.47	55	
	05382-00006	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.31	0.47	55	
	05383-00001	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.53	58	
	05383-00002	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.25	0.47	58	
	05383-00003	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	58	
	05383-00004	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.53	58	
	05383-00005	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.47	58	
	05383-00006	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	58	
	05384-00001	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): lami / arg / E270 (DS)090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.33	0.52	56	
	05384-00002	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): lami / arg / E270 (DS)090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	56	
	05384-00003	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / lami (DS/DS)090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.28	0.52	56	
	05384-00004	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / lami (DS/DS)090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05385-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.30	0.47	56																
	05385-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.30	0.47	56																
	05385-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.25	0.47	56																
	05385-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.25	0.47	56																
	05386-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.24	0.42	66																
	05386-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	66																
	05387-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.22	0.37	65																
	05387-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.22	0.37	65																
	05388-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.21	0.50	56																
	05388-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.19	0.44	56																
	05388-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.19	0.44	56																
	05388-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.50	56																
	05388-00005	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.44	56																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05388-00006	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.44	56	
	05389-00001	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.50	59	
	05389-00002	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	59	
	05389-00003	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	59	
	05389-00004	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.50	59	
	05389-00005	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	59	
	05389-00006	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	59	
	05390-00001	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.21	0.49	55	
	05390-00002	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	55	
	05390-00003	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	55	
	05390-00004	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.49	55	
	05390-00005	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	55	
	05390-00006	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	55	
	05391-00001	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.49	59	
	05391-00002	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	59	
	05391-00003	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05391-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.49	59	
	05391-00005	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	59	
	05391-00006	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	59	
	05392-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.48	56	
	05392-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	56	
	05392-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.21	0.48	56	
	05392-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	56	
	05393-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.43	56	
	05393-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.43	56	
	05393-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.19	0.43	56	
	05393-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.19	0.43	56	
	05394-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.19	0.36	66	

NFRC Product Certification Authorization Report



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City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4 IA: Keystone Certifications, Inc.

Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05394-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	66
	05395-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.17	0.32	66
	05395-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.17	0.32	66
	05396-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.61	0.63	44
	05396-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.54	0.56	44
	05396-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.54	0.56	44
	05397-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.59	0.62	43
	05397-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.53	0.56	43
	05397-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.53	0.56	43
	05398-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	43
	05398-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43
	05398-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	43
	05399-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	43
	05400-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	42

NFRC Product Certification Authorization Report



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City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05400-00002	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	05400-00003	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	42	
	05400-00004	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	05401-00001	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	42	
	05401-00002	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	
	05401-00003	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	42	
	05401-00004	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	05402-00001	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.38	0.55	0.58	51	
	05402-00002	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	51	
	05403-00001	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.39	0.49	0.52	51	
	05403-00002	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	51	
	05404-00001	"141.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.30	0.54	55	

NFRC Product Certification Authorization Report



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City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05404-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.27	0.48	55	
	05404-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.27	0.48	55	
	05404-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.37	0.54	55	
	05404-00005	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.33	0.48	55	
	05404-00006	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.33	0.48	55	
	05405-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.30	0.54	58	
	05405-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.48	58	
	05405-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.48	58	
	05405-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.38	0.54	58	
	05405-00005	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.34	0.48	58	
	05405-00006	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.34	0.48	58	
	05406-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.53	53	
	05406-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.47	53	
	05406-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.47	53	
	05406-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.37	0.53	53	
	05406-00005	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.47	53	

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Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05406-00006	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.47	53	
	05407-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.53	56	
	05407-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.47	56	
	05407-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.47	56	
	05407-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.37	0.53	56	
	05407-00005	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.33	0.47	56	
	05407-00006	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.33	0.47	56	
	05408-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.35	0.52	55	
	05408-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	55	
	05408-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.29	0.52	55	
	05408-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	55	
	05409-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.32	0.47	55	
	05409-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.32	0.47	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05409-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090) DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.26	0.47	55																
	05409-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090) DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.26	0.47	55																
	05410-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.26	0.42	62																
	05410-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	62																
	05411-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.23	0.37	62																
	05411-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.23	0.37	62																
	05412-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.51	0.62	53																
	05412-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.46	0.55	53																
	05412-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.46	0.55	53																
	05412-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.54	0.62	53																
	05412-00005	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.49	0.55	53																
	05412-00006	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.49	0.55	53																
	05413-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.51	0.62	56																
	05413-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.46	0.55	56																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05413-00003	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.46	0.55	56	
	05413-00004	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.54	0.62	56	
	05413-00005	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.49	0.55	56	
	05413-00006	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.49	0.55	56	
	05414-00001	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.51	0.61	52	
	05414-00002	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.45	0.55	52	
	05414-00003	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.45	0.55	52	
	05414-00004	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.53	0.61	52	
	05414-00005	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.48	0.55	52	
	05414-00006	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.48	0.55	52	
	05415-00001	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.51	0.61	55	
	05415-00002	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.45	0.55	55	
	05415-00003	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.55	55	
	05415-00004	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.54	0.61	55	
	05415-00005	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.48	0.55	55	
	05415-00006	"141.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.48	0.55	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05416-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.49	0.60	54	
	05416-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	54	
	05416-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.50	0.60	54	
	05416-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	54	
	05417-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.34	0.44	0.54	54	
	05417-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.34	0.44	0.54	54	
	05417-00003	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.34	0.45	0.54	54	
	05417-00004	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.34	0.45	0.54	54	
	05418-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.26	0.45	0.56	62	
	05418-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	62	
	05419-00001	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.27	0.41	0.50	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4 IA: Keystone Certifications, Inc.

Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05419-00002	"141.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.27	0.41	0.50	62
	05420-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.61	0.63	46
	05420-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.54	0.56	46
	05420-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.54	0.56	46
	05421-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	45
	05421-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	45
	05421-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	45
	05422-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.57	0.62	44
	05422-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.51	0.55	44
	05422-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.51	0.55	44
	05423-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.51	0.55	44
	05424-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	44
	05424-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	44
	05424-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	44

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05424-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	44	
	05425-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	44	
	05425-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	44	
	05425-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	44	
	05425-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	44	
	05426-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	54	
	05426-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	54	
	05427-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	54	
	05427-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	54	
	05428-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.54	59	
	05428-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.48	59	
	05428-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.48	59	
	05428-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.54	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05428-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.32	0.48	59	
	05428-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.32	0.48	59	
	05429-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.54	61	
	05429-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.26	0.48	61	
	05429-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.26	0.48	61	
	05429-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.36	0.54	61	
	05429-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.48	61	
	05429-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.48	61	
	05430-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.29	0.29	0.53	59	
	05430-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.29	0.26	0.47	59	
	05430-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.29	0.26	0.47	59	
	05430-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.29	0.35	0.53	59	
	05430-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.29	0.31	0.47	59	
	05430-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.29	0.31	0.47	59	
	05431-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.28	0.53	61	
	05431-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.25	0.47	61	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05431-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.25	0.47	61	
	05431-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.35	0.53	61	
	05431-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.32	0.47	61	
	05431-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.32	0.47	61	
	05432-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.33	0.52	60	
	05432-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.30	0.47	60	
	05432-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.52	60	
	05432-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	60	
	05433-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	60	
	05433-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	60	
	05433-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	60	
	05433-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	60	
	05434-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	68	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	05434-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	68		
	05435-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	68		
	05435-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	68		
	05436-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.29	0.21	0.50	60		
	05436-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.29	0.19	0.44	60		
	05436-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.29	0.19	0.44	60		
	05436-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.29	0.30	0.50	60		
	05436-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.29	0.27	0.44	60		
	05436-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.29	0.27	0.44	60		
	05437-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.50	62		
	05437-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	62		
	05437-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	62		
	05437-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.50	62		
	05437-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	62		
	05437-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	62		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05438-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.29	0.21	0.49	59	
	05438-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.29	0.19	0.44	59	
	05438-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.29	0.19	0.44	59	
	05438-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.29	0.29	0.49	59	
	05438-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.29	0.27	0.44	59	
	05438-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.29	0.27	0.44	59	
	05439-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.49	61	
	05439-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	61	
	05439-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	61	
	05439-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.49	61	
	05439-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	61	
	05439-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	61	
	05440-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	60	
	05440-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	60	
	05440-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	60	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05440-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	60	
	05441-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.43	60	
	05441-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	60	
	05441-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.19	0.43	60	
	05441-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	60	
	05442-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.19	0.36	68	
	05442-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	68	
	05443-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.17	0.32	68	
	05443-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	68	
	05444-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.54	60	
	05444-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.48	60	
	05444-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.48	60	
	05444-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.54	60	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05444-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.48	60																
	05444-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.48	60																
	05445-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.54	61																
	05445-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.48	61																
	05445-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.48	61																
	05445-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.38	0.54	61																
	05445-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.34	0.48	61																
	05445-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.34	0.48	61																
	05446-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.29	0.30	0.53	59																
	05446-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.29	0.27	0.47	59																
	05446-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.29	0.27	0.47	59																
	05446-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.29	0.37	0.53	59																
	05446-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.29	0.33	0.47	59																
	05446-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.29	0.33	0.47	59																
	05447-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.29	0.53	61																
	05447-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.47	61																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05447-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.47	61	
	05447-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.37	0.53	61	
	05447-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.33	0.47	61	
	05447-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.33	0.47	61	
	05448-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.35	0.52	60	
	05448-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.47	60	
	05448-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.52	60	
	05448-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.47	60	
	05449-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.32	0.47	60	
	05449-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	60	
	05449-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.47	60	
	05449-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	60	
	05450-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.26	0.42	68	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	05450-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.23	0.37	68		
	05451-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.23	0.37	68		
	05451-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4"" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	68		
	05452-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.51	0.62	58		
	05452-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.46	0.55	58		
	05452-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.46	0.55	58		
	05452-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.54	0.62	58		
	05452-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.49	0.55	58		
	05452-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.49	0.55	58		
	05453-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.51	0.62	60		
	05453-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.46	0.55	60		
	05453-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.46	0.55	60		
	05453-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.54	0.62	60		
	05453-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.49	0.55	60		
	05453-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.49	0.55	60		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05454-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.51	0.61	57	
	05454-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.45	0.55	57	
	05454-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.45	0.55	57	
	05454-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.53	0.61	57	
	05454-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.48	0.55	57	
	05454-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.48	0.55	57	
	05455-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.51	0.61	59	
	05455-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.45	0.55	59	
	05455-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.45	0.55	59	
	05455-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.54	0.61	59	
	05455-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.48	0.55	59	
	05455-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.48	0.55	59	
	05456-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	59	
	05456-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	59	
	05456-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05456-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	59	
	05457-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090) DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.44	0.54	59	
	05457-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090) DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	59	
	05457-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.45	0.54	59	
	05457-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	59	
	05458-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.45	0.56	67	
	05458-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.41	0.50	67	
	05459-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.41	0.50	67	
	05459-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	67	
	05460-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.44	0.61	0.63	44	
	05460-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.44	0.54	0.56	44	
	05460-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.44	0.54	0.56	44	
	05461-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	43	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05461-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	43
	05461-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	43
	05462-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	44
	05462-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	44
	05462-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	44
	05463-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	44
	05464-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	43
	05464-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	43
	05464-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	43
	05464-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	43
	05465-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.49	0.55	43
	05465-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	43
	05465-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05465-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	43	
	05466-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	49	
	05466-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	49	
	05467-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	49	
	05467-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	49	
	05468-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.54	54	
	05468-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.48	54	
	05468-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.48	54	
	05468-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.54	54	
	05468-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.32	0.48	54	
	05468-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.32	0.48	54	
	05469-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.54	58	
	05469-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.26	0.48	58	
	05469-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.48	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05469-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.36	0.54	58	
	05469-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.48	58	
	05469-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.48	58	
	05470-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.30	0.29	0.53	56	
	05470-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.47	56	
	05470-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.47	56	
	05470-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.30	0.35	0.53	56	
	05470-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.30	0.31	0.47	56	
	05470-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.30	0.31	0.47	56	
	05471-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.53	57	
	05471-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.25	0.47	57	
	05471-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.25	0.47	57	
	05471-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.35	0.53	57	
	05471-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.47	57	
	05471-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.47	57	
	05472-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.33	0.52	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05472-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.30	0.47	57																
	05472-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.52	57																
	05472-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	57																
	05473-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.30	0.47	57																
	05473-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	57																
	05473-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.25	0.47	57																
	05473-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	57																
	05474-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	66																
	05474-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	66																
	05475-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	66																
	05475-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	66																
	05476-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.21	0.50	57																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05476-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.19	0.44	57	
	05476-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.19	0.44	57	
	05476-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.50	57	
	05476-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.44	57	
	05476-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.44	57	
	05477-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.50	58	
	05477-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	58	
	05477-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	58	
	05477-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.50	58	
	05477-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	58	
	05477-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	58	
	05478-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.30	0.21	0.49	56	
	05478-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	56	
	05478-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	56	
	05478-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.30	0.29	0.49	56	
	05478-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05478-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	56	
	05479-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	58	
	05479-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	58	
	05479-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	58	
	05479-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	58	
	05479-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	58	
	05479-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	58	
	05480-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.48	57	
	05480-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.43	57	
	05480-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.48	57	
	05480-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.43	57	
	05481-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.43	57	
	05481-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05481-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.19	0.43	57																
	05481-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	57																
	05482-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.19	0.36	67																
	05482-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	67																
	05483-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.17	0.32	67																
	05483-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	67																
	05484-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.61	0.63	44																
	05484-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.54	0.56	44																
	05484-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.54	0.56	44																
	05485-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	43																
	05485-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	43																
	05485-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	43																
	05486-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	43																
	05486-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05486-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	43	
	05487-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43	
	05488-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	42	
	05488-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42	
	05488-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	42	
	05488-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	05489-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42	
	05489-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	05489-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	05489-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	05490-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	51	
	05490-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	51	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05491-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	51	
	05491-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	51	
	05492-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.54	55	
	05492-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.48	55	
	05492-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.48	55	
	05492-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.37	0.54	55	
	05492-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.48	55	
	05492-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.48	55	
	05493-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.54	58	
	05493-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.48	58	
	05493-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.48	58	
	05493-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.38	0.54	58	
	05493-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.34	0.48	58	
	05493-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.34	0.48	58	
	05494-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05494-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	53
	05494-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	53
	05494-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	53
	05494-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	53
	05494-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	53
	05495-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.53	56
	05495-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.47	56
	05495-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.47	56
	05495-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.37	0.53	56
	05495-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.33	0.47	56
	05495-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.33	0.47	56
	05496-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.35	0.52	55
	05496-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.47	55
	05496-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.52	55
	05496-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.47	55

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05497-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	55																
	05497-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	55																
	05497-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	55																
	05497-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	55																
	05498-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.26	0.42	63																
	05498-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	63																
	05499-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.23	0.37	62																
	05499-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	62																
	05500-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.62	53																
	05500-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.46	0.55	53																
	05500-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.46	0.55	53																
	05500-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.54	0.62	53																
	05500-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.49	0.55	53																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05500-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.49	0.55	53	
	05501-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.62	56	
	05501-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.46	0.55	56	
	05501-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.46	0.55	56	
	05501-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.62	56	
	05501-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.49	0.55	56	
	05501-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.49	0.55	56	
	05502-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.51	0.61	52	
	05502-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.45	0.55	52	
	05502-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.45	0.55	52	
	05502-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.53	0.61	52	
	05502-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.48	0.55	52	
	05502-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.48	0.55	52	
	05503-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.61	55	
	05503-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.45	0.55	55	
	05503-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.45	0.55	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05503-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.61	55	
	05503-00005	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.48	0.55	55	
	05503-00006	"141.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.48	0.55	55	
	05504-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	54	
	05504-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	54	
	05504-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	54	
	05504-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	54	
	05505-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.44	0.54	54	
	05505-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	54	
	05505-00003	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.45	0.54	54	
	05505-00004	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	54	
	05506-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	62	

NFRC Product Certification Authorization Report



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Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4 IA: Keystone Certifications, Inc.

Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05506-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	62
	05507-00001	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.41	0.50	62
	05507-00002	"141.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	62
	05508-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.61	0.63	46
	05508-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.54	0.56	46
	05508-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.54	0.56	46
	05509-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	45
	05509-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	45
	05509-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	45
	05510-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.57	0.62	45
	05510-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.51	0.55	45
	05510-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.51	0.55	45
	05511-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.51	0.55	45
	05512-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.55	0.61	44

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05512-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.49	0.55	44	
	05512-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.57	0.61	44	
	05512-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	44	
	05513-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.49	0.55	44	
	05513-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	44	
	05513-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	44	
	05513-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44	
	05514-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.36	0.55	0.58	53	
	05514-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.36	0.49	0.52	53	
	05515-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.37	0.49	0.52	53	
	05515-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	53	
	05516-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.54	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05516-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.48	59	
	05516-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.48	59	
	05516-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.54	59	
	05516-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.32	0.48	59	
	05516-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.32	0.48	59	
	05517-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.54	62	
	05517-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.26	0.48	62	
	05517-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.26	0.48	62	
	05517-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.36	0.54	62	
	05517-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.48	62	
	05517-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.48	62	
	05518-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.53	58	
	05518-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.47	58	
	05518-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.47	58	
	05518-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.53	58	
	05518-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.31	0.47	58	

NFRC Product Certification Authorization Report



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Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05518-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.31	0.47	58	
	05519-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.28	0.53	61	
	05519-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.25	0.47	61	
	05519-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.25	0.47	61	
	05519-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.35	0.53	61	
	05519-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.32	0.47	61	
	05519-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.32	0.47	61	
	05520-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.33	0.52	59	
	05520-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.30	0.47	59	
	05520-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.52	59	
	05520-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	59	
	05521-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.30	0.47	59	
	05521-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05521-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.25	0.47	59																
	05521-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	59																
	05522-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	68																
	05522-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	68																
	05523-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.22	0.37	68																
	05523-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	68																
	05524-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.21	0.50	59																
	05524-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	59																
	05524-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	59																
	05524-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.50	59																
	05524-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	59																
	05524-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	59																
	05525-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.50	63																
	05525-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	63																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05525-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	63	
	05525-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.50	63	
	05525-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	63	
	05525-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	63	
	05526-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.29	0.21	0.49	58	
	05526-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.29	0.19	0.44	58	
	05526-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.29	0.19	0.44	58	
	05526-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.29	0.29	0.49	58	
	05526-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.29	0.27	0.44	58	
	05526-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.29	0.27	0.44	58	
	05527-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.49	62	
	05527-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	62	
	05527-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	62	
	05527-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.49	62	
	05527-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	62	
	05527-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05528-00001	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.48	60																
	05528-00002	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.43	60																
	05528-00003	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.48	60																
	05528-00004	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.43	60																
	05529-00001	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.26	0.43	60																
	05529-00002	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	60																
	05529-00003	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.19	0.43	60																
	05529-00004	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	60																
	05530-00001	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.22	0.19	0.36	68																
	05530-00002	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.22	0.17	0.32	68																
	05531-00001	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.17	0.32	68																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05531-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	68	
	05532-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.54	59	
	05532-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.48	59	
	05532-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.48	59	
	05532-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.54	59	
	05532-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.48	59	
	05532-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.48	59	
	05533-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.54	62	
	05533-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.48	62	
	05533-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.48	62	
	05533-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.38	0.54	62	
	05533-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.34	0.48	62	
	05533-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.34	0.48	62	
	05534-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.53	58	
	05534-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.47	58	
	05534-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.47	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05534-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.53	58	
	05534-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.47	58	
	05534-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.47	58	
	05535-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.29	0.53	61	
	05535-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.47	61	
	05535-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.47	61	
	05535-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.37	0.53	61	
	05535-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.33	0.47	61	
	05535-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.33	0.47	61	
	05536-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.52	59	
	05536-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	59	
	05536-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.52	59	
	05536-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.47	59	
	05537-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.32	0.47	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05537-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	59																
	05537-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.47	59																
	05537-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	59																
	05538-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.26	0.42	68																
	05538-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.23	0.37	68																
	05539-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.23	0.37	68																
	05539-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.23	0.37	68																
	05540-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.51	0.62	57																
	05540-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.46	0.55	57																
	05540-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.46	0.55	57																
	05540-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.54	0.62	57																
	05540-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.49	0.55	57																
	05540-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.49	0.55	57																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05541-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.51	0.62	61	
	05541-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.46	0.55	61	
	05541-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.46	0.55	61	
	05541-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.54	0.62	61	
	05541-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.49	0.55	61	
	05541-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.49	0.55	61	
	05542-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.51	0.61	56	
	05542-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.45	0.55	56	
	05542-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.45	0.55	56	
	05542-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.53	0.61	56	
	05542-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.48	0.55	56	
	05542-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.48	0.55	56	
	05543-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.51	0.61	60	
	05543-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.45	0.55	60	
	05543-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.45	0.55	60	
	05543-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.54	0.61	60	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
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City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05543-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.48	0.55	60	
	05543-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.48	0.55	60	
	05544-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.49	0.60	58	
	05544-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.44	0.54	58	
	05544-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.50	0.60	58	
	05544-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.54	58	
	05545-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.44	0.54	58	
	05545-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	58	
	05545-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.45	0.54	58	
	05545-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	58	
	05546-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.45	0.56	66	
	05546-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.41	0.50	66	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
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City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4 IA: Keystone Certifications, Inc.

Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05547-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.41	0.50	66
	05547-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	66
	05548-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.44	0.61	0.63	44
	05548-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.44	0.54	0.56	44
	05548-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.44	0.54	0.56	44
	05549-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	44
	05549-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	44
	05549-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	44
	05550-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	44
	05550-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	44
	05550-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	44
	05551-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	44
	05552-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	42
	05552-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05552-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	42	
	05552-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	05553-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42	
	05553-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	05553-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	05553-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	05554-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	52	
	05554-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	52	
	05555-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.37	0.49	0.52	52	
	05555-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	52	
	05556-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.54	56	
	05556-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.48	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05556-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.48	56	
	05556-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.54	56	
	05556-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.32	0.48	56	
	05556-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.32	0.48	56	
	05557-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.54	59	
	05557-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.26	0.48	59	
	05557-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.48	59	
	05557-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.36	0.54	59	
	05557-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.48	59	
	05557-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.48	59	
	05558-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.53	55	
	05558-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.47	55	
	05558-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.47	55	
	05558-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.53	55	
	05558-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.31	0.47	55	
	05558-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.31	0.47	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05559-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.53	58	
	05559-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.25	0.47	58	
	05559-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.25	0.47	58	
	05559-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.35	0.53	58	
	05559-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.47	58	
	05559-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.47	58	
	05560-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.33	0.52	56	
	05560-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.30	0.47	56	
	05560-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.52	56	
	05560-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	56	
	05561-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	56	
	05561-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	56	
	05561-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05561-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	56																
	05562-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	66																
	05562-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	66																
	05563-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	65																
	05563-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	65																
	05564-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.21	0.50	56																
	05564-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	56																
	05564-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	56																
	05564-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.50	56																
	05564-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	56																
	05564-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	56																
	05565-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.50	59																
	05565-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	59																
	05565-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	59																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
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CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05565-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.50	59	
	05565-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	59	
	05565-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	59	
	05566-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.30	0.21	0.49	55	
	05566-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	55	
	05566-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	55	
	05566-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.30	0.29	0.49	55	
	05566-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	55	
	05566-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	55	
	05567-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	59	
	05567-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	59	
	05567-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	59	
	05567-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	59	
	05567-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	59	
	05567-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	59	
	05568-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05568-00002	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	56	
	05568-00003	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	56	
	05568-00004	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	56	
	05569-00001	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.43	56	
	05569-00002	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	56	
	05569-00003	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.19	0.43	56	
	05569-00004	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	56	
	05570-00001	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.19	0.36	66	
	05570-00002	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	66	
	05571-00001	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.17	0.32	66	
	05571-00002	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	66	
	05572-00001	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05572-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	44	
	05572-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	44	
	05573-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	43	
	05573-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	43	
	05573-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	43	
	05574-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	43	
	05574-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43	
	05574-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	43	
	05575-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43	
	05576-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	42	
	05576-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42	
	05576-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	42	
	05576-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	05577-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05577-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42
	05577-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42
	05577-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42
	05578-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	51
	05578-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	51
	05579-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	51
	05579-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	51
	05580-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.54	55
	05580-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.48	55
	05580-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.48	55
	05580-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.37	0.54	55
	05580-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.48	55
	05580-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.48	55

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4			IA: Keystone Certifications, Inc.												
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05581-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.54	58
	05581-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.48	58
	05581-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.48	58
	05581-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.38	0.54	58
	05581-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.34	0.48	58
	05581-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.34	0.48	58
	05582-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	53
	05582-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	53
	05582-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	53
	05582-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	53
	05582-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	53
	05582-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	53
	05583-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.53	56
	05583-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.47	56
	05583-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.47	56
	05583-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.37	0.53	56

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05583-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.33	0.47	56	
	05583-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.33	0.47	56	
	05584-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.35	0.52	55	
	05584-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.47	55	
	05584-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.52	55	
	05584-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.47	55	
	05585-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	55	
	05585-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	55	
	05585-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	55	
	05585-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	55	
	05586-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.26	0.42	62	
	05586-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.				
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	05587-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.23	0.37	62		
	05587-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	62		
	05588-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.62	53		
	05588-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.46	0.55	53		
	05588-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.46	0.55	53		
	05588-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.54	0.62	53		
	05588-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.49	0.55	53		
	05588-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.49	0.55	53		
	05589-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.62	56		
	05589-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.46	0.55	56		
	05589-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.46	0.55	56		
	05589-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.62	56		
	05589-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.49	0.55	56		
	05589-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.49	0.55	56		
	05590-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.51	0.61	52		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05590-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.45	0.55	52	
	05590-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.45	0.55	52	
	05590-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.53	0.61	52	
	05590-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.48	0.55	52	
	05590-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.48	0.55	52	
	05591-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.61	55	
	05591-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.45	0.55	55	
	05591-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.45	0.55	55	
	05591-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.61	55	
	05591-00005	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.48	0.55	55	
	05591-00006	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.48	0.55	55	
	05592-00001	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	54	
	05592-00002	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	54	
	05592-00003	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	54	
	05592-00004	"141.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	54	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05593-00001	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.44	0.54	54																
	05593-00002	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	54																
	05593-00003	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.45	0.54	54																
	05593-00004	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	54																
	05594-00001	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	62																
	05594-00002	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	62																
	05595-00001	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.41	0.50	62																
	05595-00002	"141.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	62																
	05596-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	46																
	05596-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	46																
	05596-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	46																
	05597-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	45																
	05597-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	45																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05597-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	45	
	05598-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	45	
	05598-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	45	
	05598-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	45	
	05599-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	45	
	05600-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	44	
	05600-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	44	
	05600-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	44	
	05600-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44	
	05601-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	44	
	05601-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	44	
	05601-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	44	
	05601-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05602-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	53	
	05602-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	53	
	05603-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	53	
	05603-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	53	
	05604-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.54	59	
	05604-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.48	59	
	05604-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.48	59	
	05604-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.35	0.54	59	
	05604-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.32	0.48	59	
	05604-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.32	0.48	59	
	05605-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.54	62	
	05605-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.26	0.48	62	
	05605-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.26	0.48	62	
	05605-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.36	0.54	62	
	05605-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.48	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05605-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.48	62	
	05606-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.53	58	
	05606-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.47	58	
	05606-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.47	58	
	05606-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.35	0.53	58	
	05606-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.31	0.47	58	
	05606-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.31	0.47	58	
	05607-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.53	62	
	05607-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.25	0.47	62	
	05607-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.25	0.47	62	
	05607-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4"" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.35	0.53	62	
	05607-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4"" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.47	62	
	05607-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4"" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.47	62	
	05608-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4"" IG"	VY/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.33	0.52	59	
	05608-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4"" IG"	VY/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.30	0.47	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05608-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.52	59	
	05608-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	59	
	05609-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	59	
	05609-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	59	
	05609-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	59	
	05609-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	59	
	05610-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.24	0.42	68	
	05610-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	68	
	05611-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	68	
	05611-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	68	
	05612-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.21	0.50	59	
	05612-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05612-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	59	
	05612-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.50	59	
	05612-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	59	
	05612-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	59	
	05613-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.50	63	
	05613-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	63	
	05613-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	63	
	05613-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.50	63	
	05613-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	63	
	05613-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	63	
	05614-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.21	0.49	58	
	05614-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	58	
	05614-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	58	
	05614-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.49	58	
	05614-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	58	
	05614-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05615-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	62	
	05615-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	62	
	05615-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	62	
	05615-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	62	
	05615-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	62	
	05615-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	62	
	05616-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	60	
	05616-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	60	
	05616-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	60	
	05616-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	60	
	05617-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.43	60	
	05617-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	60	
	05617-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.19	0.43	60	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05617-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	60																
	05618-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.19	0.36	68																
	05618-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	68																
	05619-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.17	0.32	68																
	05619-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	68																
	05620-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.54	59																
	05620-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.48	59																
	05620-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.48	59																
	05620-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.37	0.54	59																
	05620-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.48	59																
	05620-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.48	59																
	05621-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.54	62																
	05621-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.48	62																
	05621-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.48	62																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05621-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.38	0.54	62	
	05621-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.34	0.48	62	
	05621-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.34	0.48	62	
	05622-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	58	
	05622-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	58	
	05622-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	58	
	05622-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	58	
	05622-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	58	
	05622-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	58	
	05623-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.29	0.53	62	
	05623-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.47	62	
	05623-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.47	62	
	05623-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.37	0.53	62	
	05623-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.33	0.47	62	
	05623-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.33	0.47	62	
	05624-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.35	0.52	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05624-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.47	59	
	05624-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.52	59	
	05624-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.47	59	
	05625-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	59	
	05625-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	59	
	05625-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	59	
	05625-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	59	
	05626-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.26	0.42	68	
	05626-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.23	0.37	68	
	05627-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.23	0.37	68	
	05627-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	68	
	05628-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.51	0.62	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05628-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.46	0.55	57	
	05628-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.46	0.55	57	
	05628-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.54	0.62	57	
	05628-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.49	0.55	57	
	05628-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.49	0.55	57	
	05629-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.62	61	
	05629-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.46	0.55	61	
	05629-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.46	0.55	61	
	05629-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.62	61	
	05629-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.49	0.55	61	
	05629-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.49	0.55	61	
	05630-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.51	0.61	56	
	05630-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.45	0.55	56	
	05630-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.45	0.55	56	
	05630-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.53	0.61	56	
	05630-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.48	0.55	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05630-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.48	0.55	56	
	05631-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.61	60	
	05631-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.45	0.55	60	
	05631-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.45	0.55	60	
	05631-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.61	60	
	05631-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.48	0.55	60	
	05631-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.48	0.55	60	
	05632-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	58	
	05632-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	58	
	05632-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	58	
	05632-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	58	
	05633-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.44	0.54	58	
	05633-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05633-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090) DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.45	0.54	58	
	05633-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090) DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	58	
	05634-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	67	
	05634-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	67	
	05635-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.41	0.50	67	
	05635-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	67	
	05636-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	44	
	05636-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	44	
	05636-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	44	
	05637-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	44	
	05637-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	44	
	05637-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	44	
	05638-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	43	
	05638-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05638-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	43	
	05639-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43	
	05640-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	42	
	05640-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	05640-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	42	
	05640-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	05641-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	42	
	05641-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	
	05641-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	42	
	05641-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	05642-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.38	0.55	0.58	52	
	05642-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05643-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	52	
	05643-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52	
	05644-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.54	56	
	05644-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.48	56	
	05644-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.48	56	
	05644-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.35	0.54	56	
	05644-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.32	0.48	56	
	05644-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.32	0.48	56	
	05645-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.54	59	
	05645-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.26	0.48	59	
	05645-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.48	59	
	05645-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.36	0.54	59	
	05645-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.32	0.48	59	
	05645-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.48	59	
	05646-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.53	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05646-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.47	55	
	05646-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.47	55	
	05646-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.35	0.53	55	
	05646-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.31	0.47	55	
	05646-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.31	0.47	55	
	05647-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.53	58	
	05647-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.25	0.47	58	
	05647-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	58	
	05647-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.53	58	
	05647-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.47	58	
	05647-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	58	
	05648-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.33	0.52	56	
	05648-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	56	
	05648-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.28	0.52	56	
	05648-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05649-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	56																
	05649-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	56																
	05649-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	56																
	05649-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	56																
	05650-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.24	0.42	66																
	05650-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	66																
	05651-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	66																
	05651-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	66																
	05652-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.21	0.50	56																
	05652-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.19	0.44	56																
	05652-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.19	0.44	56																
	05652-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.50	56																
	05652-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.44	56																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05652-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.44	56	
	05653-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.50	59	
	05653-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	59	
	05653-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	59	
	05653-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.50	59	
	05653-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	59	
	05653-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	59	
	05654-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.21	0.49	55	
	05654-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	55	
	05654-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	55	
	05654-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.49	55	
	05654-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	55	
	05654-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	55	
	05655-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.49	59	
	05655-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	59	
	05655-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05655-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.49	59	
	05655-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	59	
	05655-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	59	
	05656-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.48	56	
	05656-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	56	
	05656-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.21	0.48	56	
	05656-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	56	
	05657-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.43	56	
	05657-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.43	56	
	05657-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.19	0.43	56	
	05657-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.19	0.43	56	
	05658-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.19	0.36	66	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	05658-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	66		
	05659-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.17	0.32	66		
	05659-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	66		
	05660-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	44		
	05660-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	44		
	05660-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	44		
	05661-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	43		
	05661-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	43		
	05661-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	43		
	05662-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	43		
	05662-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43		
	05662-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	43		
	05663-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43		
	05664-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	42		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05664-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	05664-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	42	
	05664-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	05665-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	42	
	05665-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	
	05665-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	42	
	05665-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	05666-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.38	0.55	0.58	51	
	05666-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	51	
	05667-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.39	0.49	0.52	51	
	05667-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	51	
	05668-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.54	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05668-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.48	55	
	05668-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.48	55	
	05668-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.37	0.54	55	
	05668-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.48	55	
	05668-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.48	55	
	05669-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.30	0.54	58	
	05669-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.48	58	
	05669-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.48	58	
	05669-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.38	0.54	58	
	05669-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.34	0.48	58	
	05669-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.34	0.48	58	
	05670-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.53	53	
	05670-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.47	53	
	05670-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.47	53	
	05670-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.37	0.53	53	
	05670-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.47	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05670-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.47	53	
	05671-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.53	56	
	05671-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.47	56	
	05671-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.47	56	
	05671-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.37	0.53	56	
	05671-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.33	0.47	56	
	05671-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.33	0.47	56	
	05672-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.35	0.52	55	
	05672-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	55	
	05672-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.52	55	
	05672-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	55	
	05673-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.32	0.47	55	
	05673-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.32	0.47	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05673-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090) DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.26	0.47	55																
	05673-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090) DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.26	0.47	55																
	05674-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.26	0.42	63																
	05674-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	63																
	05675-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.23	0.37	63																
	05675-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.23	0.37	63																
	05676-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.51	0.62	53																
	05676-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.46	0.55	53																
	05676-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.46	0.55	53																
	05676-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.54	0.62	53																
	05676-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.49	0.55	53																
	05676-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.49	0.55	53																
	05677-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.62	56																
	05677-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.46	0.55	56																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05677-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.46	0.55	56	
	05677-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.62	56	
	05677-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.49	0.55	56	
	05677-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.49	0.55	56	
	05678-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.61	52	
	05678-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.45	0.55	52	
	05678-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.45	0.55	52	
	05678-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.53	0.61	52	
	05678-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.48	0.55	52	
	05678-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.48	0.55	52	
	05679-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.61	55	
	05679-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.45	0.55	55	
	05679-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.55	55	
	05679-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.61	55	
	05679-00005	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.48	0.55	55	
	05679-00006	"142.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.48	0.55	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
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City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05680-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.49	0.60	54	
	05680-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	54	
	05680-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.50	0.60	54	
	05680-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	54	
	05681-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.44	0.54	54	
	05681-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.44	0.54	54	
	05681-00003	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.45	0.54	54	
	05681-00004	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.45	0.54	54	
	05682-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.26	0.45	0.56	62	
	05682-00002	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	62	
	05683-00001	"142.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.27	0.41	0.50	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4 IA: Keystone Certifications, Inc.

Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05683-00002	"142.294 / Opt 1 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.27	0.41	0.50	62
	05684-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	46
	05684-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	46
	05684-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	46
	05685-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	45
	05685-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	45
	05685-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	45
	05686-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	45
	05686-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	45
	05686-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	45
	05687-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	45
	05688-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	44
	05688-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	44
	05688-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	44

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05688-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44	
	05689-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	44	
	05689-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	44	
	05689-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	44	
	05689-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	44	
	05690-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	53	
	05690-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	53	
	05691-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	53	
	05691-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	53	
	05692-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.54	59	
	05692-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.48	59	
	05692-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.48	59	
	05692-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.35	0.54	59	

NFRC Product Certification Authorization Report



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Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05692-00005	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.32	0.48	59	
	05692-00006	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.32	0.48	59	
	05693-00001	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.54	62	
	05693-00002	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.26	0.48	62	
	05693-00003	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.48	62	
	05693-00004	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.36	0.54	62	
	05693-00005	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.48	62	
	05693-00006	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.48	62	
	05694-00001	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.29	0.53	58	
	05694-00002	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.47	58	
	05694-00003	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.47	58	
	05694-00004	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.35	0.53	58	
	05694-00005	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.31	0.47	58	
	05694-00006	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.31	0.47	58	
	05695-00001	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.53	62	
	05695-00002	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.25	0.47	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05695-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.25	0.47	62	
	05695-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.35	0.53	62	
	05695-00005	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.47	62	
	05695-00006	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.47	62	
	05696-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.33	0.52	59	
	05696-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.30	0.47	59	
	05696-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.52	59	
	05696-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	59	
	05697-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	59	
	05697-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	59	
	05697-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	59	
	05697-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	59	
	05698-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.24	0.42	68	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05698-00002	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	68	
	05699-00001	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	68	
	05699-00002	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	68	
	05700-00001	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.21	0.50	59	
	05700-00002	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	59	
	05700-00003	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	59	
	05700-00004	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.50	59	
	05700-00005	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	59	
	05700-00006	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	59	
	05701-00001	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.50	63	
	05701-00002	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	63	
	05701-00003	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	63	
	05701-00004	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.50	63	
	05701-00005	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	63	
	05701-00006	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	63	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05702-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.21	0.49	58	
	05702-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	58	
	05702-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	58	
	05702-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.49	58	
	05702-00005	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	58	
	05702-00006	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	58	
	05703-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	62	
	05703-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	62	
	05703-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	62	
	05703-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	62	
	05703-00005	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	62	
	05703-00006	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	62	
	05704-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	60	
	05704-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	60	
	05704-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	60	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05704-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	60	
	05705-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.43	60	
	05705-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	60	
	05705-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.19	0.43	60	
	05705-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	60	
	05706-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.19	0.36	68	
	05706-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	68	
	05707-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.17	0.32	68	
	05707-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	68	
	05708-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.54	59	
	05708-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.48	59	
	05708-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.48	59	
	05708-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.37	0.54	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05708-00005	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.48	59																
	05708-00006	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.48	59																
	05709-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.54	62																
	05709-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.48	62																
	05709-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.48	62																
	05709-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.38	0.54	62																
	05709-00005	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.34	0.48	62																
	05709-00006	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.34	0.48	62																
	05710-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	58																
	05710-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	58																
	05710-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	58																
	05710-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	58																
	05710-00005	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	58																
	05710-00006	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	58																
	05711-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.29	0.53	62																
	05711-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.47	62																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05711-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.47	62	
	05711-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.37	0.53	62	
	05711-00005	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.33	0.47	62	
	05711-00006	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.33	0.47	62	
	05712-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.35	0.52	59	
	05712-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.47	59	
	05712-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.52	59	
	05712-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.47	59	
	05713-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	59	
	05713-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	59	
	05713-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	59	
	05713-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	59	
	05714-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.26	0.42	68	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	05714-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	68		
	05715-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.23	0.37	68		
	05715-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	68		
	05716-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.51	0.62	57		
	05716-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.46	0.55	57		
	05716-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.46	0.55	57		
	05716-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.54	0.62	57		
	05716-00005	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.49	0.55	57		
	05716-00006	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.49	0.55	57		
	05717-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.62	61		
	05717-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.46	0.55	61		
	05717-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.46	0.55	61		
	05717-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.62	61		
	05717-00005	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.49	0.55	61		
	05717-00006	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.49	0.55	61		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05718-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.51	0.61	56	
	05718-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.45	0.55	56	
	05718-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.45	0.55	56	
	05718-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.53	0.61	56	
	05718-00005	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.48	0.55	56	
	05718-00006	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.48	0.55	56	
	05719-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.61	60	
	05719-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.45	0.55	60	
	05719-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.45	0.55	60	
	05719-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.61	60	
	05719-00005	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.48	0.55	60	
	05719-00006	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.48	0.55	60	
	05720-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	58	
	05720-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	58	
	05720-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05720-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	58	
	05721-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.44	0.54	58	
	05721-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	58	
	05721-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.45	0.54	58	
	05721-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	58	
	05722-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	66	
	05722-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	66	
	05723-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.41	0.50	66	
	05723-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	66	
	05724-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	44	
	05724-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	44	
	05724-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	44	
	05725-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05725-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	44	
	05725-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	44	
	05726-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	44	
	05726-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	44	
	05726-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44	
	05727-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	44	
	05728-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	42	
	05728-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	05728-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	42	
	05728-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	05729-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	42	
	05729-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	
	05729-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05729-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	05730-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.38	0.55	0.58	52	
	05730-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52	
	05731-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	52	
	05731-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52	
	05732-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.54	56	
	05732-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.48	56	
	05732-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.48	56	
	05732-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.35	0.54	56	
	05732-00005	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.32	0.48	56	
	05732-00006	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.32	0.48	56	
	05733-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.54	59	
	05733-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.26	0.48	59	
	05733-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.48	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05733-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.36	0.54	59																
	05733-00005	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.32	0.48	59																
	05733-00006	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.48	59																
	05734-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.29	0.53	55																
	05734-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.26	0.47	55																
	05734-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.26	0.47	55																
	05734-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.35	0.53	55																
	05734-00005	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.31	0.47	55																
	05734-00006	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.31	0.47	55																
	05735-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.53	58																
	05735-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.25	0.47	58																
	05735-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	58																
	05735-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.53	58																
	05735-00005	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.47	58																
	05735-00006	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	58																
	05736-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.33	0.52	56																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
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City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05736-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	56	
	05736-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.28	0.52	56	
	05736-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	56	
	05737-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.30	0.47	56	
	05737-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.30	0.47	56	
	05737-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.25	0.47	56	
	05737-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.25	0.47	56	
	05738-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.24	0.42	66	
	05738-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	66	
	05739-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.22	0.37	66	
	05739-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.22	0.37	66	
	05740-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.21	0.50	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05740-00002	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (SS/SS) 3/4"" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.19	0.44	56	
	05740-00003	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (SS/SS) 3/4"" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.19	0.44	56	
	05740-00004	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.50	56	
	05740-00005	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.44	56	
	05740-00006	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.44	56	
	05741-00001	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.50	59	
	05741-00002	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	59	
	05741-00003	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	59	
	05741-00004	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.50	59	
	05741-00005	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	59	
	05741-00006	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	59	
	05742-00001	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.21	0.49	55	
	05742-00002	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	55	
	05742-00003	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	55	
	05742-00004	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.49	55	
	05742-00005	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05742-00006	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	55	
	05743-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.49	59	
	05743-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	59	
	05743-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	59	
	05743-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.49	59	
	05743-00005	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	59	
	05743-00006	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	59	
	05744-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.48	56	
	05744-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	56	
	05744-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.21	0.48	56	
	05744-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	56	
	05745-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.43	56	
	05745-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.43	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05745-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.19	0.43	56																
	05745-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.19	0.43	56																
	05746-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.19	0.36	66																
	05746-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	66																
	05747-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.17	0.32	66																
	05747-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	66																
	05748-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.61	0.63	44																
	05748-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.54	0.56	44																
	05748-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.54	0.56	44																
	05749-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	43																
	05749-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	43																
	05749-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	43																
	05750-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	43																
	05750-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05750-00003	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	43	
	05751-00001	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43	
	05752-00001	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	42	
	05752-00002	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	05752-00003	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	42	
	05752-00004	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	05753-00001	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.49	0.55	42	
	05753-00002	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.49	0.55	42	
	05753-00003	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.48	0.51	0.55	42	
	05753-00004	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.48	0.51	0.55	42	
	05754-00001	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.38	0.55	0.58	51	
	05754-00002	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	51	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05755-00001	"142.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.39	0.49	0.52	51	
	05755-00002	"142.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.39	0.49	0.52	51	
	05756-00001	"142.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.54	55	
	05756-00002	"142.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.48	55	
	05756-00003	"142.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.48	55	
	05756-00004	"142.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.37	0.54	55	
	05756-00005	"142.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.48	55	
	05756-00006	"142.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.48	55	
	05757-00001	"142.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.30	0.54	58	
	05757-00002	"142.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.48	58	
	05757-00003	"142.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.48	58	
	05757-00004	"142.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.38	0.54	58	
	05757-00005	"142.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.34	0.48	58	
	05757-00006	"142.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.34	0.48	58	
	05758-00001	"142.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.53	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05758-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.47	53	
	05758-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.47	53	
	05758-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.37	0.53	53	
	05758-00005	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.47	53	
	05758-00006	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.47	53	
	05759-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.53	56	
	05759-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.27	0.47	56	
	05759-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.27	0.47	56	
	05759-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.37	0.53	56	
	05759-00005	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.33	0.47	56	
	05759-00006	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.33	0.47	56	
	05760-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.35	0.52	55	
	05760-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	55	
	05760-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.52	55	
	05760-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05761-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.32	0.47	55																
	05761-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.32	0.47	55																
	05761-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.26	0.47	55																
	05761-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.26	0.47	55																
	05762-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.26	0.42	63																
	05762-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	63																
	05763-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.23	0.37	62																
	05763-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.23	0.37	62																
	05764-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.51	0.62	53																
	05764-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.46	0.55	53																
	05764-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.46	0.55	53																
	05764-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.34	0.54	0.62	53																
	05764-00005	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.34	0.49	0.55	53																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05764-00006	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.34	0.49	0.55	53	
	05765-00001	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.51	0.62	56	
	05765-00002	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.46	0.55	56	
	05765-00003	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.46	0.55	56	
	05765-00004	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.54	0.62	56	
	05765-00005	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.49	0.55	56	
	05765-00006	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.49	0.55	56	
	05766-00001	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.61	52	
	05766-00002	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.45	0.55	52	
	05766-00003	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.45	0.55	52	
	05766-00004	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.53	0.61	52	
	05766-00005	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.48	0.55	52	
	05766-00006	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.48	0.55	52	
	05767-00001	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.61	55	
	05767-00002	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.45	0.55	55	
	05767-00003	"142.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.55	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05767-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.61	55	
	05767-00005	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.48	0.55	55	
	05767-00006	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.48	0.55	55	
	05768-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.49	0.60	54	
	05768-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	54	
	05768-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.32	0.50	0.60	54	
	05768-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	54	
	05769-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.44	0.54	54	
	05769-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.44	0.54	54	
	05769-00003	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.45	0.54	54	
	05769-00004	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.45	0.54	54	
	05770-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.26	0.45	0.56	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4 IA: Keystone Certifications, Inc.

Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05770-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	62
	05771-00001	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.27	0.41	0.50	62
	05771-00002	"142.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.27	0.41	0.50	62
	05772-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.61	0.63	46
	05772-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.54	0.56	46
	05772-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.54	0.56	46
	05773-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	45
	05773-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	45
	05773-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	45
	05774-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.57	0.62	45
	05774-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.51	0.55	45
	05774-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.51	0.55	45
	05775-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.51	0.55	45
	05776-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.55	0.61	44

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
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City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05776-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.49	0.55	44	
	05776-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.57	0.61	44	
	05776-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	44	
	05777-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.49	0.55	44	
	05777-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	44	
	05777-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	44	
	05777-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44	
	05778-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.36	0.55	0.58	53	
	05778-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.36	0.49	0.52	53	
	05779-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.37	0.49	0.52	53	
	05779-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	53	
	05780-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.54	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05780-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.48	59	
	05780-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.48	59	
	05780-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.54	59	
	05780-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.32	0.48	59	
	05780-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.32	0.48	59	
	05781-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.54	62	
	05781-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.26	0.48	62	
	05781-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.26	0.48	62	
	05781-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.36	0.54	62	
	05781-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.48	62	
	05781-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.48	62	
	05782-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.53	58	
	05782-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.47	58	
	05782-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.47	58	
	05782-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.53	58	
	05782-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.31	0.47	58	

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CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05782-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.31	0.47	58	
	05783-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.28	0.53	61	
	05783-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.25	0.47	61	
	05783-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.25	0.47	61	
	05783-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.35	0.53	61	
	05783-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.32	0.47	61	
	05783-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.32	0.47	61	
	05784-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.33	0.52	59	
	05784-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.30	0.47	59	
	05784-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.52	59	
	05784-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	59	
	05785-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.30	0.47	59	
	05785-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05785-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.25	0.47	59																
	05785-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	59																
	05786-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	68																
	05786-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	68																
	05787-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	68																
	05787-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	68																
	05788-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.21	0.50	59																
	05788-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	59																
	05788-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	59																
	05788-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.50	59																
	05788-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	59																
	05788-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	59																
	05789-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.50	63																
	05789-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	63																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05789-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	63																
	05789-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.50	63																
	05789-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	63																
	05789-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	63																
	05790-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.29	0.21	0.49	58																
	05790-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.29	0.19	0.44	58																
	05790-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.29	0.19	0.44	58																
	05790-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.29	0.29	0.49	58																
	05790-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.29	0.27	0.44	58																
	05790-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.29	0.27	0.44	58																
	05791-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.49	62																
	05791-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	62																
	05791-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	62																
	05791-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.49	62																
	05791-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	62																
	05791-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	62																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05792-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.48	60	
	05792-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.43	60	
	05792-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.48	60	
	05792-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.43	60	
	05793-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.26	0.43	60	
	05793-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	60	
	05793-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.19	0.43	60	
	05793-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	60	
	05794-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.22	0.19	0.36	68	
	05794-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.22	0.17	0.32	68	
	05795-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.17	0.32	68	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05795-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	68																
	05796-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.54	59																
	05796-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.48	59																
	05796-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.48	59																
	05796-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.54	59																
	05796-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.48	59																
	05796-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.48	59																
	05797-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.54	62																
	05797-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.48	62																
	05797-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.48	62																
	05797-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.38	0.54	62																
	05797-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.34	0.48	62																
	05797-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.34	0.48	62																
	05798-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.53	58																
	05798-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.47	58																
	05798-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.47	58																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05798-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.53	58	
	05798-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.47	58	
	05798-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.47	58	
	05799-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.29	0.53	62	
	05799-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.47	62	
	05799-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.47	62	
	05799-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.37	0.53	62	
	05799-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.33	0.47	62	
	05799-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.33	0.47	62	
	05800-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.52	59	
	05800-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	59	
	05800-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.52	59	
	05800-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.47	59	
	05801-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.32	0.47	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05801-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	59																
	05801-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.47	59																
	05801-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	59																
	05802-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.26	0.42	68																
	05802-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.23	0.37	68																
	05803-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.23	0.37	68																
	05803-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	68																
	05804-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.51	0.62	57																
	05804-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.46	0.55	57																
	05804-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.46	0.55	57																
	05804-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.54	0.62	57																
	05804-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.49	0.55	57																
	05804-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.49	0.55	57																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05805-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.51	0.62	61	
	05805-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.46	0.55	61	
	05805-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.46	0.55	61	
	05805-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.54	0.62	61	
	05805-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.49	0.55	61	
	05805-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.49	0.55	61	
	05806-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.51	0.61	56	
	05806-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.45	0.55	56	
	05806-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.45	0.55	56	
	05806-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.53	0.61	56	
	05806-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.48	0.55	56	
	05806-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.48	0.55	56	
	05807-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.51	0.61	60	
	05807-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.45	0.55	60	
	05807-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.45	0.55	60	
	05807-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.54	0.61	60	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05807-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.48	0.55	60	
	05807-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.48	0.55	60	
	05808-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.49	0.60	58	
	05808-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.44	0.54	58	
	05808-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.50	0.60	58	
	05808-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.54	58	
	05809-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.44	0.54	58	
	05809-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	58	
	05809-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.45	0.54	58	
	05809-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	58	
	05810-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.45	0.56	66	
	05810-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.41	0.50	66	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4 IA: Keystone Certifications, Inc.

Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05811-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.41	0.50	66
	05811-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	66
	05812-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.44	0.61	0.63	44
	05812-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.44	0.54	0.56	44
	05812-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.44	0.54	0.56	44
	05813-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	44
	05813-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	44
	05813-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	44
	05814-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	44
	05814-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	44
	05814-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	44
	05815-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	44
	05816-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	42
	05816-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05816-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	42	
	05816-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	05817-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42	
	05817-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	05817-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	05817-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	05818-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	52	
	05818-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	52	
	05819-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	52	
	05819-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52	
	05820-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.54	56	
	05820-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.48	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05820-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.48	56	
	05820-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.54	56	
	05820-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.32	0.48	56	
	05820-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.32	0.48	56	
	05821-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.54	59	
	05821-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.26	0.48	59	
	05821-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.48	59	
	05821-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.36	0.54	59	
	05821-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.48	59	
	05821-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.48	59	
	05822-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.53	55	
	05822-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.47	55	
	05822-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.47	55	
	05822-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.53	55	
	05822-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.31	0.47	55	
	05822-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.31	0.47	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05823-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.53	58	
	05823-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.25	0.47	58	
	05823-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.25	0.47	58	
	05823-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.35	0.53	58	
	05823-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.47	58	
	05823-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.47	58	
	05824-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.33	0.52	56	
	05824-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.30	0.47	56	
	05824-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.52	56	
	05824-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	56	
	05825-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	56	
	05825-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	56	
	05825-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05825-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	56	
	05826-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	66	
	05826-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	66	
	05827-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	66	
	05827-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	66	
	05828-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.21	0.50	56	
	05828-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	56	
	05828-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	56	
	05828-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.50	56	
	05828-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	56	
	05828-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	56	
	05829-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.50	59	
	05829-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	59	
	05829-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05829-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.50	59
	05829-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	59
	05829-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	59
	05830-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.30	0.21	0.49	55
	05830-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	55
	05830-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	55
	05830-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.30	0.29	0.49	55
	05830-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	55
	05830-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	55
	05831-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	59
	05831-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	59
	05831-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	59
	05831-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	59
	05831-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	59
	05831-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	59
	05832-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	56

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05832-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	56	
	05832-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	56	
	05832-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	56	
	05833-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.43	56	
	05833-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	56	
	05833-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.19	0.43	56	
	05833-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	56	
	05834-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.19	0.36	66	
	05834-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	66	
	05835-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.17	0.32	66	
	05835-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	66	
	05836-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05836-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	44	
	05836-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	44	
	05837-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	43	
	05837-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	43	
	05837-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	43	
	05838-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	43	
	05838-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43	
	05838-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	43	
	05839-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43	
	05840-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	42	
	05840-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42	
	05840-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	42	
	05840-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	05841-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05841-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42
	05841-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42
	05841-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42
	05842-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	51
	05842-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	51
	05843-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	51
	05843-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	51
	05844-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.54	55
	05844-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.48	55
	05844-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.48	55
	05844-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.37	0.54	55
	05844-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.48	55
	05844-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.48	55

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05845-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.54	58	
	05845-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.48	58	
	05845-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.48	58	
	05845-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.38	0.54	58	
	05845-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.34	0.48	58	
	05845-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.34	0.48	58	
	05846-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	53	
	05846-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	53	
	05846-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	53	
	05846-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	53	
	05846-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	53	
	05846-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	53	
	05847-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.53	56	
	05847-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.47	56	
	05847-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.47	56	
	05847-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.37	0.53	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05847-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.33	0.47	56	
	05847-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.33	0.47	56	
	05848-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.35	0.52	55	
	05848-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	55	
	05848-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.52	55	
	05848-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	55	
	05849-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	55	
	05849-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	55	
	05849-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	55	
	05849-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	55	
	05850-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.26	0.42	62	
	05850-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	05851-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.23	0.37	62		
	05851-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	62		
	05852-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.62	53		
	05852-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.46	0.55	53		
	05852-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.46	0.55	53		
	05852-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.54	0.62	53		
	05852-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.49	0.55	53		
	05852-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.49	0.55	53		
	05853-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.62	56		
	05853-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.46	0.55	56		
	05853-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.46	0.55	56		
	05853-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.62	56		
	05853-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.49	0.55	56		
	05853-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.49	0.55	56		
	05854-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.61	52		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05854-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.45	0.55	52	
	05854-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.45	0.55	52	
	05854-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.53	0.61	52	
	05854-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.48	0.55	52	
	05854-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.48	0.55	52	
	05855-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.61	55	
	05855-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.45	0.55	55	
	05855-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.45	0.55	55	
	05855-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.61	55	
	05855-00005	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.48	0.55	55	
	05855-00006	"142.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.48	0.55	55	
	05856-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	54	
	05856-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	54	
	05856-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	54	
	05856-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	54	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05857-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.44	0.54	54																
	05857-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	54																
	05857-00003	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.45	0.54	54																
	05857-00004	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	54																
	05858-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	62																
	05858-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	62																
	05859-00001	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.41	0.50	62																
	05859-00002	"142.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	62																
	05860-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.61	0.63	46																
	05860-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.54	0.56	46																
	05860-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.54	0.56	46																
	05861-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	45																
	05861-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	45																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05861-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	45	
	05862-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.57	0.62	45	
	05862-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.51	0.55	45	
	05862-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.51	0.55	45	
	05863-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.51	0.55	45	
	05864-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	44	
	05864-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	44	
	05864-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	44	
	05864-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44	
	05865-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.49	0.55	44	
	05865-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	44	
	05865-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	44	
	05865-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05866-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.36	0.55	0.58	53	
	05866-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.36	0.49	0.52	53	
	05867-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.37	0.49	0.52	53	
	05867-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	53	
	05868-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.54	59	
	05868-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.48	59	
	05868-00003	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.48	59	
	05868-00004	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.54	59	
	05868-00005	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.32	0.48	59	
	05868-00006	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.32	0.48	59	
	05869-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.54	62	
	05869-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.26	0.48	62	
	05869-00003	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.26	0.48	62	
	05869-00004	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.36	0.54	62	
	05869-00005	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.48	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05869-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.48	62	
	05870-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.53	58	
	05870-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.47	58	
	05870-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.47	58	
	05870-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.53	58	
	05870-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.31	0.47	58	
	05870-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.31	0.47	58	
	05871-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.28	0.53	61	
	05871-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.25	0.47	61	
	05871-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.25	0.47	61	
	05871-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.35	0.53	61	
	05871-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.32	0.47	61	
	05871-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.32	0.47	61	
	05872-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.33	0.52	59	
	05872-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.30	0.47	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05872-00003	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.52	59	
	05872-00004	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	59	
	05873-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.30	0.47	59	
	05873-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	59	
	05873-00003	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.25	0.47	59	
	05873-00004	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	59	
	05874-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	68	
	05874-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	68	
	05875-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	68	
	05875-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	68	
	05876-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.21	0.50	59	
	05876-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05876-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	59	
	05876-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.50	59	
	05876-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	59	
	05876-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	59	
	05877-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.50	63	
	05877-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	63	
	05877-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	63	
	05877-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.50	63	
	05877-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	63	
	05877-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	63	
	05878-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.29	0.21	0.49	58	
	05878-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.29	0.19	0.44	58	
	05878-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.29	0.19	0.44	58	
	05878-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.29	0.29	0.49	58	
	05878-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.29	0.27	0.44	58	
	05878-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.29	0.27	0.44	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05879-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.49	62	
	05879-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	62	
	05879-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	62	
	05879-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.49	62	
	05879-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	62	
	05879-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	62	
	05880-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.48	60	
	05880-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.43	60	
	05880-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.48	60	
	05880-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.43	60	
	05881-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.26	0.43	60	
	05881-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	60	
	05881-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.19	0.43	60	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05881-00004	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	60	
	05882-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.22	0.19	0.36	68	
	05882-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.22	0.17	0.32	68	
	05883-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.17	0.32	68	
	05883-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	68	
	05884-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.54	59	
	05884-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.48	59	
	05884-00003	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.48	59	
	05884-00004	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.54	59	
	05884-00005	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.48	59	
	05884-00006	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.48	59	
	05885-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.54	62	
	05885-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.48	62	
	05885-00003	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.48	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05885-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.38	0.54	62	
	05885-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.34	0.48	62	
	05885-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.34	0.48	62	
	05886-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.53	58	
	05886-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.47	58	
	05886-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.47	58	
	05886-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.53	58	
	05886-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.47	58	
	05886-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.47	58	
	05887-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.29	0.53	61	
	05887-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.47	61	
	05887-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.47	61	
	05887-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.37	0.53	61	
	05887-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.33	0.47	61	
	05887-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.33	0.47	61	
	05888-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.52	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05888-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	59	
	05888-00003	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.52	59	
	05888-00004	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.47	59	
	05889-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.32	0.47	59	
	05889-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	59	
	05889-00003	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.47	59	
	05889-00004	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	59	
	05890-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.26	0.42	68	
	05890-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.23	0.37	68	
	05891-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.23	0.37	68	
	05891-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	68	
	05892-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.51	0.62	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05892-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.46	0.55	57																
	05892-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.46	0.55	57																
	05892-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.54	0.62	57																
	05892-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.49	0.55	57																
	05892-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.49	0.55	57																
	05893-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.51	0.62	61																
	05893-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.46	0.55	61																
	05893-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.46	0.55	61																
	05893-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.54	0.62	61																
	05893-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.49	0.55	61																
	05893-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.49	0.55	61																
	05894-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.51	0.61	56																
	05894-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.45	0.55	56																
	05894-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.45	0.55	56																
	05894-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.53	0.61	56																
	05894-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.48	0.55	56																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05894-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.48	0.55	56	
	05895-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.51	0.61	60	
	05895-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.45	0.55	60	
	05895-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.45	0.55	60	
	05895-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.54	0.61	60	
	05895-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.48	0.55	60	
	05895-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.48	0.55	60	
	05896-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.49	0.60	58	
	05896-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.44	0.54	58	
	05896-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.50	0.60	58	
	05896-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.54	58	
	05897-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.44	0.54	58	
	05897-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05897-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.45	0.54	58																
	05897-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	58																
	05898-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.45	0.56	66																
	05898-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.41	0.50	66																
	05899-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.41	0.50	66																
	05899-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	66																
	05900-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.44	0.61	0.63	44																
	05900-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.44	0.54	0.56	44																
	05900-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.44	0.54	0.56	44																
	05901-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	44																
	05901-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	44																
	05901-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	44																
	05902-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	44																
	05902-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	44																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05902-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	44
	05903-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	44
	05904-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	42
	05904-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42
	05904-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	42
	05904-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42
	05905-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42
	05905-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42
	05905-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42
	05905-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42
	05906-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	52
	05906-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	52

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05907-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	52	
	05907-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52	
	05908-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.54	56	
	05908-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.48	56	
	05908-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.48	56	
	05908-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.54	56	
	05908-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.32	0.48	56	
	05908-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.32	0.48	56	
	05909-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.54	59	
	05909-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.26	0.48	59	
	05909-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.48	59	
	05909-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.36	0.54	59	
	05909-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.48	59	
	05909-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.48	59	
	05910-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.53	55	

NFRC Product Certification Authorization Report



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City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05910-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.47	55	
	05910-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.47	55	
	05910-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.53	55	
	05910-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.31	0.47	55	
	05910-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.31	0.47	55	
	05911-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.53	58	
	05911-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.25	0.47	58	
	05911-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.25	0.47	58	
	05911-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.35	0.53	58	
	05911-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.47	58	
	05911-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.47	58	
	05912-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.33	0.52	56	
	05912-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.30	0.47	56	
	05912-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.52	56	
	05912-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05913-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	56																
	05913-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	56																
	05913-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	56																
	05913-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	56																
	05914-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	65																
	05914-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	65																
	05915-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	65																
	05915-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	65																
	05916-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.21	0.50	56																
	05916-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	56																
	05916-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	56																
	05916-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.50	56																
	05916-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	56																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05916-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	56	
	05917-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.50	59	
	05917-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	59	
	05917-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	59	
	05917-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.50	59	
	05917-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	59	
	05917-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	59	
	05918-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.30	0.21	0.49	55	
	05918-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	55	
	05918-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	55	
	05918-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.30	0.29	0.49	55	
	05918-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	55	
	05918-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	55	
	05919-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	59	
	05919-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	59	
	05919-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05919-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	59
	05919-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	59
	05919-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	59
	05920-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	56
	05920-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	56
	05920-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	56
	05920-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	56
	05921-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.43	56
	05921-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	56
	05921-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.19	0.43	56
	05921-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	56
	05922-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.19	0.36	66

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	05922-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	66		
	05923-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.17	0.32	66		
	05923-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	66		
	05924-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	44		
	05924-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	44		
	05924-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	44		
	05925-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	43		
	05925-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	43		
	05925-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	43		
	05926-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	43		
	05926-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43		
	05926-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	43		
	05927-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43		
	05928-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	42		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05928-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42	
	05928-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	42	
	05928-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	05929-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42	
	05929-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	05929-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	05929-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	05930-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	51	
	05930-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	51	
	05931-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	51	
	05931-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	51	
	05932-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.54	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05932-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.48	55	
	05932-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.48	55	
	05932-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.37	0.54	55	
	05932-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.48	55	
	05932-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.48	55	
	05933-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.54	58	
	05933-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.48	58	
	05933-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.48	58	
	05933-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.38	0.54	58	
	05933-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.34	0.48	58	
	05933-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.34	0.48	58	
	05934-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	53	
	05934-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	53	
	05934-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	53	
	05934-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	53	
	05934-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05934-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	53
	05935-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.53	56
	05935-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.47	56
	05935-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.47	56
	05935-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.37	0.53	56
	05935-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.33	0.47	56
	05935-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.33	0.47	56
	05936-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.35	0.52	55
	05936-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	55
	05936-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.52	55
	05936-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	55
	05937-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	55
	05937-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	55

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	05937-00003	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / lami (DS/DS)090) DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	55																
	05937-00004	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / lami (DS/DS)090) DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	55																
	05938-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.26	0.42	62																
	05938-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	62																
	05939-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.23	0.37	62																
	05939-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	62																
	05940-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.62	53																
	05940-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.46	0.55	53																
	05940-00003	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.46	0.55	53																
	05940-00004	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.54	0.62	53																
	05940-00005	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.49	0.55	53																
	05940-00006	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.49	0.55	53																
	05941-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.62	56																
	05941-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.46	0.55	56																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05941-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.46	0.55	56	
	05941-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.62	56	
	05941-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.49	0.55	56	
	05941-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.49	0.55	56	
	05942-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.61	52	
	05942-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.45	0.55	52	
	05942-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.45	0.55	52	
	05942-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.53	0.61	52	
	05942-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.48	0.55	52	
	05942-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.48	0.55	52	
	05943-00001	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.61	55	
	05943-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.45	0.55	55	
	05943-00003	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.45	0.55	55	
	05943-00004	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.61	55	
	05943-00005	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.48	0.55	55	
	05943-00006	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.48	0.55	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05944-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	54	
	05944-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	54	
	05944-00003	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	54	
	05944-00004	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	54	
	05945-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.44	0.54	54	
	05945-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	54	
	05945-00003	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.45	0.54	54	
	05945-00004	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	54	
	05946-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	62	
	05946-00002	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	62	
	05947-00001	"142.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.41	0.50	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4 IA: Keystone Certifications, Inc.

Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	05947-00002	"142.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	62
	05948-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.61	0.63	46
	05948-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.54	0.56	46
	05948-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.54	0.56	46
	05949-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	45
	05949-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	45
	05949-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	45
	05950-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	45
	05950-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	45
	05950-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	45
	05951-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	45
	05952-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	44
	05952-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	44
	05952-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	44

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05952-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44	
	05953-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.49	0.55	44	
	05953-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	44	
	05953-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	44	
	05953-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44	
	05954-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.36	0.55	0.58	53	
	05954-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.36	0.49	0.52	53	
	05955-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.37	0.49	0.52	53	
	05955-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	53	
	05956-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.54	59	
	05956-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.48	59	
	05956-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.48	59	
	05956-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.54	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05956-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.32	0.48	59	
	05956-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4"" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.32	0.48	59	
	05957-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.54	62	
	05957-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.26	0.48	62	
	05957-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.26	0.48	62	
	05957-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.36	0.54	62	
	05957-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.48	62	
	05957-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VY/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.48	62	
	05958-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.53	58	
	05958-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.47	58	
	05958-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.47	58	
	05958-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.53	58	
	05958-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.31	0.47	58	
	05958-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.31	0.47	58	
	05959-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.53	62	
	05959-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.25	0.47	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05959-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.25	0.47	62	
	05959-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.35	0.53	62	
	05959-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.47	62	
	05959-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.47	62	
	05960-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.33	0.52	59	
	05960-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.30	0.47	59	
	05960-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.52	59	
	05960-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	59	
	05961-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.30	0.47	59	
	05961-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	59	
	05961-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.25	0.47	59	
	05961-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	59	
	05962-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	68	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05962-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	68	
	05963-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	68	
	05963-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	68	
	05964-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.21	0.50	59	
	05964-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	59	
	05964-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	59	
	05964-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.50	59	
	05964-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	59	
	05964-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	59	
	05965-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.50	63	
	05965-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	63	
	05965-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	63	
	05965-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.50	63	
	05965-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	63	
	05965-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	63	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05966-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.21	0.49	58	
	05966-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	58	
	05966-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	58	
	05966-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.49	58	
	05966-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	58	
	05966-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	58	
	05967-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.49	62	
	05967-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	62	
	05967-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	62	
	05967-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.49	62	
	05967-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	62	
	05967-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	62	
	05968-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.48	60	
	05968-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.43	60	
	05968-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.48	60	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05968-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.43	60	
	05969-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.43	60	
	05969-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	60	
	05969-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.19	0.43	60	
	05969-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	60	
	05970-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.19	0.36	68	
	05970-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	68	
	05971-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.17	0.32	68	
	05971-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	68	
	05972-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.54	59	
	05972-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.48	59	
	05972-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.48	59	
	05972-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.54	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05972-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.48	59	
	05972-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.48	59	
	05973-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.54	62	
	05973-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.48	62	
	05973-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.48	62	
	05973-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.38	0.54	62	
	05973-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.34	0.48	62	
	05973-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VY/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.34	0.48	62	
	05974-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.53	58	
	05974-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.47	58	
	05974-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.47	58	
	05974-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.53	58	
	05974-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.47	58	
	05974-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.47	58	
	05975-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.29	0.53	62	
	05975-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.47	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05975-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.47	62	
	05975-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.37	0.53	62	
	05975-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.33	0.47	62	
	05975-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.33	0.47	62	
	05976-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.35	0.52	59	
	05976-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.47	59	
	05976-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.52	59	
	05976-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.47	59	
	05977-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.32	0.47	59	
	05977-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	59	
	05977-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.47	59	
	05977-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	59	
	05978-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.26	0.42	68	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05978-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.23	0.37	68	
	05979-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.23	0.37	68	
	05979-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	68	
	05980-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.51	0.62	57	
	05980-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.46	0.55	57	
	05980-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.46	0.55	57	
	05980-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.54	0.62	57	
	05980-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.49	0.55	57	
	05980-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.49	0.55	57	
	05981-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.62	61	
	05981-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.46	0.55	61	
	05981-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.46	0.55	61	
	05981-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.62	61	
	05981-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.49	0.55	61	
	05981-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.49	0.55	61	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05982-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.51	0.61	56	
	05982-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.45	0.55	56	
	05982-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.45	0.55	56	
	05982-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.53	0.61	56	
	05982-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.48	0.55	56	
	05982-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.48	0.55	56	
	05983-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.51	0.61	60	
	05983-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.45	0.55	60	
	05983-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.45	0.55	60	
	05983-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.54	0.61	60	
	05983-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.48	0.55	60	
	05983-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VY/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.48	0.55	60	
	05984-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4"" IG"	VY/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.49	0.60	58	
	05984-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4"" IG"	VY/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.44	0.54	58	
	05984-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VY/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.50	0.60	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05984-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090) DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.54	58	
	05985-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090) DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.44	0.54	58	
	05985-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090) DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	58	
	05985-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090) DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.45	0.54	58	
	05985-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090) DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	58	
	05986-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.45	0.56	67	
	05986-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.41	0.50	67	
	05987-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.41	0.50	67	
	05987-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	67	
	05988-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	44	
	05988-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	44	
	05988-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	44	
	05989-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05989-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	44	
	05989-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	44	
	05990-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	44	
	05990-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	44	
	05990-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	44	
	05991-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	44	
	05992-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	42	
	05992-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42	
	05992-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	42	
	05992-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	05993-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42	
	05993-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	05993-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05993-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	05994-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	52	
	05994-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	52	
	05995-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	52	
	05995-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52	
	05996-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.54	56	
	05996-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.48	56	
	05996-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.48	56	
	05996-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.54	56	
	05996-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.32	0.48	56	
	05996-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.32	0.48	56	
	05997-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.54	59	
	05997-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.26	0.48	59	
	05997-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.48	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	05997-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.36	0.54	59	
	05997-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.48	59	
	05997-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VY/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.48	59	
	05998-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.53	55	
	05998-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.47	55	
	05998-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.47	55	
	05998-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.53	55	
	05998-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.31	0.47	55	
	05998-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.31	0.47	55	
	05999-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.53	58	
	05999-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.25	0.47	58	
	05999-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	58	
	05999-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4"" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.53	58	
	05999-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4"" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.47	58	
	05999-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E270 (DS/DS) 3/4"" IG"	VY/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	58	
	06000-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4"" IG"	VY/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.33	0.52	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06000-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	56	
	06000-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.28	0.52	56	
	06000-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	56	
	06001-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	56	
	06001-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	56	
	06001-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	56	
	06001-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	56	
	06002-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	66	
	06002-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	66	
	06003-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	66	
	06003-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	66	
	06004-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.21	0.50	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06004-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	56	
	06004-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	56	
	06004-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.50	56	
	06004-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	56	
	06004-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	56	
	06005-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.50	59	
	06005-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	59	
	06005-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VY/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	59	
	06005-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.50	59	
	06005-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	59	
	06005-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VY/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	59	
	06006-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.21	0.49	55	
	06006-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	55	
	06006-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	55	
	06006-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.49	55	
	06006-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06006-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	55	
	06007-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	59	
	06007-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	59	
	06007-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	59	
	06007-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	59	
	06007-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	59	
	06007-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	59	
	06008-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	56	
	06008-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	56	
	06008-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	56	
	06008-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	56	
	06009-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.43	56	
	06009-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.43	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06009-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090) DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.19	0.43	56	
	06009-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / lami (DS/DS 090) DS) 3/4" IG"	VY/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.19	0.43	56	
	06010-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.19	0.36	66	
	06010-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	66	
	06011-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.17	0.32	66	
	06011-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	66	
	06012-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	44	
	06012-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	44	
	06012-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VI	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	44	
	06013-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	43	
	06013-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	43	
	06013-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VI	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	43	
	06014-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	43	
	06014-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	06014-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	43
	06015-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VI	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43
	06016-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	42
	06016-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42
	06016-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	42
	06016-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42
	06017-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42
	06017-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42
	06017-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42
	06017-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42
	06018-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	51
	06018-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	51

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06019-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	51	
	06019-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	51	
	06020-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.54	55	
	06020-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.48	55	
	06020-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.48	55	
	06020-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.37	0.54	55	
	06020-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.48	55	
	06020-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.48	55	
	06021-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.54	58	
	06021-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.48	58	
	06021-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.48	58	
	06021-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.38	0.54	58	
	06021-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.34	0.48	58	
	06021-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.34	0.48	58	
	06022-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	06022-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	53
	06022-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	53
	06022-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	53
	06022-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	53
	06022-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	53
	06023-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.53	56
	06023-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.47	56
	06023-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.47	56
	06023-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.37	0.53	56
	06023-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.33	0.47	56
	06023-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.33	0.47	56
	06024-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.35	0.52	55
	06024-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	55
	06024-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.52	55
	06024-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	55

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	06025-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090) DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	55																
	06025-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 70/36 (DS 090) DS/DS) 3/4" IG"	VY/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	55																
	06025-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090) DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	55																
	06025-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / lami (DS/DS 090) DS) 3/4" IG"	VY/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	55																
	06026-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.26	0.42	63																
	06026-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	63																
	06027-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.23	0.37	63																
	06027-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	63																
	06028-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.62	53																
	06028-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.46	0.55	53																
	06028-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.46	0.55	53																
	06028-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.54	0.62	53																
	06028-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.49	0.55	53																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06028-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.49	0.55	53	
	06029-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.62	56	
	06029-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.46	0.55	56	
	06029-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.46	0.55	56	
	06029-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.62	56	
	06029-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.49	0.55	56	
	06029-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.49	0.55	56	
	06030-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.61	52	
	06030-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.45	0.55	52	
	06030-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.45	0.55	52	
	06030-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.53	0.61	52	
	06030-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.48	0.55	52	
	06030-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.48	0.55	52	
	06031-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.61	55	
	06031-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.45	0.55	55	
	06031-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.55	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06031-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.61	55	
	06031-00005	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.48	0.55	55	
	06031-00006	"148.294 / Opt 1 (INN Refo KS/LS No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.48	0.55	55	
	06032-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	54	
	06032-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	54	
	06032-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	54	
	06032-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	54	
	06033-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.44	0.54	54	
	06033-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.44	0.54	54	
	06033-00003	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.45	0.54	54	
	06033-00004	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.45	0.54	54	
	06034-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4 IA: Keystone Certifications, Inc.

Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	06034-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	62
	06035-00001	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.41	0.50	62
	06035-00002	"148.294 / Opt 1 (INN Refo KS/LS No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	62
	06036-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.61	0.63	46
	06036-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.54	0.56	46
	06036-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.54	0.56	46
	06037-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	45
	06037-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	45
	06037-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	45
	06038-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	45
	06038-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	45
	06038-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	45
	06039-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	45
	06040-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	44

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06040-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	44	
	06040-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	44	
	06040-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44	
	06041-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.49	0.55	44	
	06041-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	44	
	06041-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	44	
	06041-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44	
	06042-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.36	0.55	0.58	53	
	06042-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.36	0.49	0.52	53	
	06043-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.37	0.49	0.52	53	
	06043-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	53	
	06044-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.54	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06044-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.48	59	
	06044-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.48	59	
	06044-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.54	59	
	06044-00005	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.32	0.48	59	
	06044-00006	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.32	0.48	59	
	06045-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.54	62	
	06045-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.26	0.48	62	
	06045-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.26	0.48	62	
	06045-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.36	0.54	62	
	06045-00005	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.48	62	
	06045-00006	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.48	62	
	06046-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.53	58	
	06046-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.47	58	
	06046-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.47	58	
	06046-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.53	58	
	06046-00005	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.31	0.47	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06046-00006	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.31	0.47	58	
	06047-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.53	61	
	06047-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.25	0.47	61	
	06047-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.25	0.47	61	
	06047-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.35	0.53	61	
	06047-00005	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.47	61	
	06047-00006	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.47	61	
	06048-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.33	0.52	59	
	06048-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.30	0.47	59	
	06048-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.52	59	
	06048-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	59	
	06049-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.30	0.47	59	
	06049-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	06049-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.25	0.47	59																
	06049-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	59																
	06050-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	68																
	06050-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	68																
	06051-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	68																
	06051-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	68																
	06052-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.21	0.50	59																
	06052-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	59																
	06052-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	59																
	06052-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.50	59																
	06052-00005	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	59																
	06052-00006	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	59																
	06053-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.50	63																
	06053-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	63																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06053-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	63	
	06053-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.50	63	
	06053-00005	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	63	
	06053-00006	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	63	
	06054-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.21	0.49	58	
	06054-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	58	
	06054-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	58	
	06054-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.49	58	
	06054-00005	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	58	
	06054-00006	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	58	
	06055-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.49	62	
	06055-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	62	
	06055-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	62	
	06055-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.49	62	
	06055-00005	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	62	
	06055-00006	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06056-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.48	60	
	06056-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.43	60	
	06056-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.48	60	
	06056-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.43	60	
	06057-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.43	60	
	06057-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	60	
	06057-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.19	0.43	60	
	06057-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	60	
	06058-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.19	0.36	68	
	06058-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	68	
	06059-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.17	0.32	68	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06059-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	68	
	06060-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.54	59	
	06060-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.48	59	
	06060-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.48	59	
	06060-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.54	59	
	06060-00005	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.48	59	
	06060-00006	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.48	59	
	06061-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.54	62	
	06061-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.48	62	
	06061-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.48	62	
	06061-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.38	0.54	62	
	06061-00005	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.34	0.48	62	
	06061-00006	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.34	0.48	62	
	06062-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.53	58	
	06062-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.47	58	
	06062-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.47	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06062-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.53	58	
	06062-00005	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.47	58	
	06062-00006	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.47	58	
	06063-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.29	0.53	62	
	06063-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.47	62	
	06063-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.47	62	
	06063-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.37	0.53	62	
	06063-00005	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.33	0.47	62	
	06063-00006	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.33	0.47	62	
	06064-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.35	0.52	59	
	06064-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.47	59	
	06064-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.52	59	
	06064-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.47	59	
	06065-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.32	0.47	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	06065-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	59																
	06065-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.47	59																
	06065-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	59																
	06066-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.26	0.42	68																
	06066-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.23	0.37	68																
	06067-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.23	0.37	68																
	06067-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	68																
	06068-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.51	0.62	57																
	06068-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.46	0.55	57																
	06068-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.46	0.55	57																
	06068-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.54	0.62	57																
	06068-00005	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.49	0.55	57																
	06068-00006	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.49	0.55	57																

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Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06069-00001	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.62	61	
	06069-00002	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.46	0.55	61	
	06069-00003	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.46	0.55	61	
	06069-00004	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.62	61	
	06069-00005	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.49	0.55	61	
	06069-00006	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.49	0.55	61	
	06070-00001	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.51	0.61	56	
	06070-00002	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.45	0.55	56	
	06070-00003	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.45	0.55	56	
	06070-00004	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.32	0.53	0.61	56	
	06070-00005	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.32	0.48	0.55	56	
	06070-00006	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.32	0.48	0.55	56	
	06071-00001	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.51	0.61	60	
	06071-00002	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.45	0.55	60	
	06071-00003	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.45	0.55	60	
	06071-00004	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.54	0.61	60	

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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06071-00005	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.48	0.55	60	
	06071-00006	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.48	0.55	60	
	06072-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.49	0.60	58	
	06072-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.44	0.54	58	
	06072-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.50	0.60	58	
	06072-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.54	58	
	06073-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.44	0.54	58	
	06073-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	58	
	06073-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.45	0.54	58	
	06073-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	58	
	06074-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.45	0.56	66	
	06074-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.41	0.50	66	

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Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	06075-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.41	0.50	66
	06075-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	66
	06076-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	44
	06076-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	44
	06076-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	44
	06077-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	44
	06077-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	44
	06077-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	44
	06078-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	44
	06078-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	44
	06078-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	44
	06079-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	44
	06080-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	42
	06080-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42

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	06080-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	42	
	06080-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	06081-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42	
	06081-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	06081-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	06081-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	06082-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	52	
	06082-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	52	
	06083-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	52	
	06083-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	52	
	06084-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.54	56	
	06084-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.48	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06084-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.48	56	
	06084-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.54	56	
	06084-00005	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.32	0.48	56	
	06084-00006	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.32	0.48	56	
	06085-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.54	59	
	06085-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.26	0.48	59	
	06085-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.48	59	
	06085-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.36	0.54	59	
	06085-00005	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.48	59	
	06085-00006	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VY/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.48	59	
	06086-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.53	55	
	06086-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.47	55	
	06086-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.47	55	
	06086-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.53	55	
	06086-00005	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.31	0.47	55	
	06086-00006	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.31	0.47	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06087-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.53	58	
	06087-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.25	0.47	58	
	06087-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	58	
	06087-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.53	58	
	06087-00005	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.47	58	
	06087-00006	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	58	
	06088-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.33	0.52	56	
	06088-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	56	
	06088-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.28	0.52	56	
	06088-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	56	
	06089-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.30	0.47	56	
	06089-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.30	0.47	56	
	06089-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.25	0.47	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	06089-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.25	0.47	56																
	06090-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	66																
	06090-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	66																
	06091-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.22	0.37	66																
	06091-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.22	0.37	66																
	06092-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.21	0.50	56																
	06092-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	56																
	06092-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	56																
	06092-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.50	56																
	06092-00005	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	56																
	06092-00006	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	56																
	06093-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.50	59																
	06093-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.19	0.44	59																
	06093-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.44	59																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06093-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.50	59	
	06093-00005	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.44	59	
	06093-00006	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VY/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.44	59	
	06094-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.21	0.49	55	
	06094-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	55	
	06094-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	55	
	06094-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.49	55	
	06094-00005	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	55	
	06094-00006	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	55	
	06095-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	59	
	06095-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	59	
	06095-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	59	
	06095-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	59	
	06095-00005	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	59	
	06095-00006	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	59	
	06096-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06096-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	56	
	06096-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	56	
	06096-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	56	
	06097-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.43	56	
	06097-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.43	56	
	06097-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.19	0.43	56	
	06097-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.19	0.43	56	
	06098-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.19	0.36	66	
	06098-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	66	
	06099-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.17	0.32	66	
	06099-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VY/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.17	0.32	66	
	06100-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.61	0.63	44	

NFRC Product Certification Authorization Report



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Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06100-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.54	0.56	44	
	06100-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (SS/SS) 3/4" IG"	VY/VV	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.54	0.56	44	
	06101-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.59	0.62	43	
	06101-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.53	0.56	43	
	06101-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (DS/DS) 3/4" IG"	VY/VV	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.53	0.56	43	
	06102-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.62	43	
	06102-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43	
	06102-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	43	
	06103-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / clr (5mm/DS) 3/4" IG"	VY/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	43	
	06104-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.55	0.61	42	
	06104-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	06104-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.47	0.57	0.61	42	
	06104-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	06105-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06105-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	06105-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	06105-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	06106-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	51	
	06106-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	51	
	06107-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	51	
	06107-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VY/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	51	
	06108-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.30	0.54	55	
	06108-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.27	0.48	55	
	06108-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.27	0.48	55	
	06108-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.37	0.54	55	
	06108-00005	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.33	0.48	55	
	06108-00006	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.33	0.48	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06109-00001	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.54	58	
	06109-00002	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.48	58	
	06109-00003	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.48	58	
	06109-00004	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.38	0.54	58	
	06109-00005	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.34	0.48	58	
	06109-00006	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VY/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.34	0.48	58	
	06110-00001	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	53	
	06110-00002	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	53	
	06110-00003	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	53	
	06110-00004	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	53	
	06110-00005	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	53	
	06110-00006	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	53	
	06111-00001	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.53	56	
	06111-00002	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.47	56	
	06111-00003	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.47	56	
	06111-00004	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.37	0.53	56	

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CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06111-00005	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.33	0.47	56	
	06111-00006	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.33	0.47	56	
	06112-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.35	0.52	55	
	06112-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	55	
	06112-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.29	0.52	55	
	06112-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	55	
	06113-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	55	
	06113-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	55	
	06113-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	55	
	06113-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	55	
	06114-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.26	0.42	63	
	06114-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	63	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	06115-00001	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.23	0.37	62		
	06115-00002	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	62		
	06116-00001	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.62	53		
	06116-00002	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.46	0.55	53		
	06116-00003	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.46	0.55	53		
	06116-00004	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.54	0.62	53		
	06116-00005	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.49	0.55	53		
	06116-00006	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.49	0.55	53		
	06117-00001	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.62	56		
	06117-00002	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.46	0.55	56		
	06117-00003	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VY/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.46	0.55	56		
	06117-00004	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.62	56		
	06117-00005	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.49	0.55	56		
	06117-00006	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VY/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.49	0.55	56		
	06118-00001	"148.294 / Opt 2 (INN Refo KS/LS/S/ No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.61	52		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06118-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.45	0.55	52	
	06118-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.45	0.55	52	
	06118-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.53	0.61	52	
	06118-00005	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.48	0.55	52	
	06118-00006	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.48	0.55	52	
	06119-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.51	0.61	55	
	06119-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.45	0.55	55	
	06119-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VY/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.55	55	
	06119-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.54	0.61	55	
	06119-00005	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.48	0.55	55	
	06119-00006	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.48	0.55	55	
	06120-00001	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): lami / arg / 80/70 (DS)090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	54	
	06120-00002	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): lami / arg / 80/70 (DS)090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	54	
	06120-00003	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 80/70 / arg / lami (DS/DS)090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	54	
	06120-00004	"148.294 / Opt 2 (INN Refo KS/LS/S) No Foam): 80/70 / arg / lami (DS/DS)090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	54	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	06121-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.44	0.54	54																
	06121-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VY/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.44	0.54	54																
	06121-00003	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.33	0.45	0.54	54																
	06121-00004	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VY/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.33	0.45	0.54	54																
	06122-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	62																
	06122-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	62																
	06123-00001	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.41	0.50	62																
	06123-00002	"148.294 / Opt 2 (INN Refo KS/LS/S No Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VY/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	62																
	06124-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.61	0.63	46																
	06124-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.54	0.56	46																
	06124-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.54	0.56	46																
	06125-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.43	0.59	0.62	45																
	06125-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.43	0.53	0.56	45																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06125-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.43	0.53	0.56	45	
	06126-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.57	0.62	45	
	06126-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.51	0.55	45	
	06126-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.51	0.55	45	
	06127-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.51	0.55	45	
	06128-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.55	0.61	44	
	06128-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.49	0.55	44	
	06128-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.57	0.61	44	
	06128-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	44	
	06129-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.49	0.55	44	
	06129-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	44	
	06129-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	44	
	06129-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06130-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.36	0.55	0.58	53	
	06130-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.36	0.49	0.52	53	
	06131-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.37	0.49	0.52	53	
	06131-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	53	
	06132-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.54	59	
	06132-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.48	59	
	06132-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.48	59	
	06132-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.54	59	
	06132-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.32	0.48	59	
	06132-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.32	0.48	59	
	06133-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.28	0.54	62	
	06133-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.26	0.48	62	
	06133-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.26	0.48	62	
	06133-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.36	0.54	62	
	06133-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.32	0.48	62	

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	06133-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4"" IG"	VF/VI	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.32	0.48	62																
	06134-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.53	58																
	06134-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.47	58																
	06134-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.47	58																
	06134-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.53	58																
	06134-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.31	0.47	58																
	06134-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.31	0.47	58																
	06135-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.28	0.53	62																
	06135-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.25	0.47	62																
	06135-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.25	0.47	62																
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	06135-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.32	0.47	62																
	06135-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.32	0.47	62																
	06136-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.33	0.52	59																
	06136-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.30	0.47	59																

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Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06136-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.52	59	
	06136-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	59	
	06137-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090) DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.30	0.47	59	
	06137-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090) DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	59	
	06137-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.25	0.47	59	
	06137-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	59	
	06138-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.22	0.24	0.42	68	
	06138-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.22	0.22	0.37	68	
	06139-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.22	0.37	68	
	06139-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	68	
	06140-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.21	0.50	59	
	06140-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	59	

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Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06140-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	59	
	06140-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.50	59	
	06140-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	59	
	06140-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	59	
	06141-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.50	63	
	06141-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	63	
	06141-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	63	
	06141-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.50	63	
	06141-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	63	
	06141-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	63	
	06142-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.29	0.21	0.49	58	
	06142-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.29	0.19	0.44	58	
	06142-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.29	0.19	0.44	58	
	06142-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.29	0.29	0.49	58	
	06142-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.29	0.27	0.44	58	
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	06143-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.49	62	
	06143-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	62	
	06143-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	62	
	06143-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.49	62	
	06143-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	62	
	06143-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	62	
	06144-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.48	60	
	06144-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.43	60	
	06144-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.48	60	
	06144-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.43	60	
	06145-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.26	0.43	60	
	06145-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	60	
	06145-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.19	0.43	60	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06145-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090) DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	60	
	06146-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.22	0.19	0.36	68	
	06146-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.22	0.17	0.32	68	
	06147-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.17	0.32	68	
	06147-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4"" IG (P1-S)"	VF/VI	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	68	
	06148-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.54	59	
	06148-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.48	59	
	06148-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.48	59	
	06148-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.54	59	
	06148-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.48	59	
	06148-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.48	59	
	06149-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.54	62	
	06149-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.48	62	
	06149-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.48	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06149-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.38	0.54	62	
	06149-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.34	0.48	62	
	06149-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.34	0.48	62	
	06150-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.53	58	
	06150-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.47	58	
	06150-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.47	58	
	06150-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.53	58	
	06150-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.47	58	
	06150-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.47	58	
	06151-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.29	0.53	62	
	06151-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.47	62	
	06151-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.47	62	
	06151-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.37	0.53	62	
	06151-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.33	0.47	62	
	06151-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.33	0.47	62	
	06152-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.52	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06152-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	59	
	06152-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.52	59	
	06152-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.47	59	
	06153-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.32	0.47	59	
	06153-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.47	59	
	06153-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.26	0.47	59	
	06153-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.47	59	
	06154-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.22	0.26	0.42	68	
	06154-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.22	0.23	0.37	68	
	06155-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.23	0.37	68	
	06155-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.23	0.37	68	
	06156-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.51	0.62	57	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06156-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.46	0.55	57	
	06156-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.46	0.55	57	
	06156-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.54	0.62	57	
	06156-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.49	0.55	57	
	06156-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.49	0.55	57	
	06157-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.51	0.62	61	
	06157-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.46	0.55	61	
	06157-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.46	0.55	61	
	06157-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.54	0.62	61	
	06157-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.49	0.55	61	
	06157-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.49	0.55	61	
	06158-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.51	0.61	56	
	06158-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.45	0.55	56	
	06158-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.45	0.55	56	
	06158-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.53	0.61	56	
	06158-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.48	0.55	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06158-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.48	0.55	56	
	06159-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.51	0.61	60	
	06159-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.45	0.55	60	
	06159-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VI	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.45	0.55	60	
	06159-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.54	0.61	60	
	06159-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.48	0.55	60	
	06159-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.48	0.55	60	
	06160-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.49	0.60	58	
	06160-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.44	0.54	58	
	06160-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.50	0.60	58	
	06160-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.54	58	
	06161-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.44	0.54	58	
	06161-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	06161-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.45	0.54	58																
	06161-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	58																
	06162-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.45	0.56	67																
	06162-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.41	0.50	67																
	06163-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.41	0.50	67																
	06163-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.41	0.50	67																
	06164-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.44	0.61	0.63	44																
	06164-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.44	0.54	0.56	44																
	06164-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.44	0.54	0.56	44																
	06165-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	44																
	06165-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	44																
	06165-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	44																
	06166-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	44																
	06166-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	44																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06166-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	44	
	06167-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	44	
	06168-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	42	
	06168-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42	
	06168-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	42	
	06168-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	06169-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.49	0.55	42	
	06169-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42	
	06169-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	42	
	06169-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	06170-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.36	0.55	0.58	52	
	06170-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.36	0.49	0.52	52	

NFRC Product Certification Authorization Report



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City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06171-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.37	0.49	0.52	52	
	06171-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	52	
	06172-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.54	56	
	06172-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.48	56	
	06172-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.48	56	
	06172-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.54	56	
	06172-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.32	0.48	56	
	06172-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.32	0.48	56	
	06173-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.54	59	
	06173-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.26	0.48	59	
	06173-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.26	0.48	59	
	06173-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.36	0.54	59	
	06173-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.48	59	
	06173-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VI	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.48	59	
	06174-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.30	0.29	0.53	55	

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Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06174-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.47	55	
	06174-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.47	55	
	06174-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.30	0.35	0.53	55	
	06174-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.30	0.31	0.47	55	
	06174-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E270 (DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.30	0.31	0.47	55	
	06175-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.53	58	
	06175-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.25	0.47	58	
	06175-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.25	0.47	58	
	06175-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.35	0.53	58	
	06175-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.47	58	
	06175-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E270 (DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.47	58	
	06176-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.33	0.52	56	
	06176-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.30	0.47	56	
	06176-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.52	56	
	06176-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	06177-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.30	0.47	56																
	06177-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	56																
	06177-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.25	0.47	56																
	06177-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	56																
	06178-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	66																
	06178-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	66																
	06179-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.22	0.37	66																
	06179-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	66																
	06180-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.21	0.50	56																
	06180-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	56																
	06180-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	56																
	06180-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.50	56																
	06180-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	56																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	06180-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	56
	06181-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.50	59
	06181-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	59
	06181-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	59
	06181-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.50	59
	06181-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	59
	06181-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VI	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	59
	06182-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.30	0.21	0.49	55
	06182-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	55
	06182-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	55
	06182-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.30	0.29	0.49	55
	06182-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	55
	06182-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	55
	06183-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	59
	06183-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	59
	06183-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	59

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	06183-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	59
	06183-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	59
	06183-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	59
	06184-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	56
	06184-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	56
	06184-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	56
	06184-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	56
	06185-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.43	56
	06185-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	56
	06185-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.19	0.43	56
	06185-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	56
	06186-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.22	0.19	0.36	66

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	06186-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.22	0.17	0.32	66		
	06187-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.17	0.32	66		
	06187-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VI	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	66		
	06188-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.44	0.61	0.63	44		
	06188-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.44	0.54	0.56	44		
	06188-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VI	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.44	0.54	0.56	44		
	06189-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	43		
	06189-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	43		
	06189-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VI	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	43		
	06190-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	43		
	06190-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43		
	06190-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	43		
	06191-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VI	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43		
	06192-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS)090 DS/DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	42		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06192-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42	
	06192-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	42	
	06192-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	06193-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42	
	06193-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	06193-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	06193-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	06194-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	51	
	06194-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	51	
	06195-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	51	
	06195-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VI	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	51	
	06196-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.54	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	06196-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.48	55
	06196-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.48	55
	06196-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.37	0.54	55
	06196-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.48	55
	06196-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.48	55
	06197-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.54	58
	06197-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.48	58
	06197-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.48	58
	06197-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.38	0.54	58
	06197-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.34	0.48	58
	06197-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VI	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.34	0.48	58
	06198-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	53
	06198-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	53
	06198-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	53
	06198-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	53
	06198-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	53

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06198-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	53	
	06199-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.53	57	
	06199-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.47	57	
	06199-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.47	57	
	06199-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.37	0.53	57	
	06199-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.33	0.47	57	
	06199-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 70/36 (DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.33	0.47	57	
	06200-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.35	0.52	55	
	06200-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.47	55	
	06200-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.52	55	
	06200-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4"" IG"	VF/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.47	55	
	06201-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	55	
	06201-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4"" IG"	VF/VI	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	06201-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	55																
	06201-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VI	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	55																
	06202-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.26	0.42	63																
	06202-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	63																
	06203-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.23	0.37	63																
	06203-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	63																
	06204-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.62	53																
	06204-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.46	0.55	53																
	06204-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.46	0.55	53																
	06204-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.54	0.62	53																
	06204-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.49	0.55	53																
	06204-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.49	0.55	53																
	06205-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.62	56																
	06205-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.46	0.55	56																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06205-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (SS/SS) 3/4"" IG"	VF/VI	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.46	0.55	56	
	06205-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.62	56	
	06205-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.49	0.55	56	
	06205-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (SS/SS) 3/4"" IG"	VF/VI	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.49	0.55	56	
	06206-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.51	0.61	52	
	06206-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.45	0.55	52	
	06206-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / air / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.45	0.55	52	
	06206-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.53	0.61	52	
	06206-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.48	0.55	52	
	06206-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / air / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.48	0.55	52	
	06207-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.61	55	
	06207-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.45	0.55	55	
	06207-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr (DS/DS) 3/4"" IG"	VF/VI	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.45	0.55	55	
	06207-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.61	55	
	06207-00005	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.48	0.55	55	
	06207-00006	"148.294 / Opt 3 (INN Refo KS/LS Foam): clr / arg / 80/70 (DS/DS) 3/4"" IG"	VF/VI	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.48	0.55	55	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06208-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	54	
	06208-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	54	
	06208-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	54	
	06208-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	54	
	06209-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.44	0.54	54	
	06209-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VI	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	54	
	06209-00003	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.45	0.54	54	
	06209-00004	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VI	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	54	
	06210-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	62	
	06210-00002	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	62	
	06211-00001	"148.294 / Opt 3 (INN Refo KS/LS Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.41	0.50	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4 IA: Keystone Certifications, Inc.

Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	06211-00002	"148.294 / Opt 3 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VI	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	62
	06212-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.61	0.63	46
	06212-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.54	0.56	46
	06212-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.54	0.56	46
	06213-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	45
	06213-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	45
	06213-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	45
	06214-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	N		CL	0.44	0.57	0.62	45
	06214-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.51	0.55	45
	06214-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.44	0.51	0.55	45
	06215-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.44	0.51	0.55	45
	06216-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.55	0.61	44
	06216-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.49	0.55	44
	06216-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	N		CL	0.45	0.57	0.61	44

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06216-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	44	
	06217-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.49	0.55	44	
	06217-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	44	
	06217-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.46	0.51	0.55	44	
	06217-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	44	
	06218-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.36	0.55	0.58	53	
	06218-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.36	0.49	0.52	53	
	06219-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.37	0.49	0.52	53	
	06219-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	P1-S	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	53	
	06220-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.54	59	
	06220-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.48	59	
	06220-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.48	59	
	06220-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.54	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06220-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.32	0.48	59	
	06220-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.32	0.48	59	
	06221-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.28	0.54	62	
	06221-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.26	0.48	62	
	06221-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.26	0.48	62	
	06221-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.36	0.54	62	
	06221-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.32	0.48	62	
	06221-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.32	0.48	62	
	06222-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.29	0.53	58	
	06222-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.26	0.47	58	
	06222-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.26	0.47	58	
	06222-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.35	0.53	58	
	06222-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.31	0.47	58	
	06222-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.31	0.47	58	
	06223-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.28	0.53	62	
	06223-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.25	0.47	62	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06223-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.25	0.47	62	
	06223-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.35	0.53	62	
	06223-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.32	0.47	62	
	06223-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.32	0.47	62	
	06224-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.33	0.52	59	
	06224-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.30	0.47	59	
	06224-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.52	59	
	06224-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.25	0.47	59	
	06225-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.30	0.47	59	
	06225-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	59	
	06225-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.25	0.47	59	
	06225-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	59	
	06226-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	68	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	06226-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	68		
	06227-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.22	0.37	68		
	06227-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.037(2), 0.037(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	68		
	06228-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.21	0.50	59		
	06228-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	59		
	06228-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	59		
	06228-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.50	59		
	06228-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	59		
	06228-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	59		
	06229-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.50	63		
	06229-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	63		
	06229-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	63		
	06229-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.50	63		
	06229-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	63		
	06229-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4" IG"	VF/VV	2	0.022(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	63		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06230-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.29	0.21	0.49	58	
	06230-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.29	0.19	0.44	58	
	06230-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.29	0.19	0.44	58	
	06230-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.29	0.29	0.49	58	
	06230-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.29	0.27	0.44	58	
	06230-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.29	0.27	0.44	58	
	06231-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.21	0.49	62	
	06231-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.19	0.44	62	
	06231-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.19	0.44	62	
	06231-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.49	62	
	06231-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.44	62	
	06231-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.44	62	
	06232-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.48	60	
	06232-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.43	60	
	06232-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.21	0.48	60	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06232-00004	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.19	0.43	60	
	06233-00001	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.26	0.43	60	
	06233-00002	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	60	
	06233-00003	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.19	0.43	60	
	06233-00004	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	60	
	06234-00001	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.22	0.19	0.36	68	
	06234-00002	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.22	0.17	0.32	68	
	06235-00001	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.17	0.32	68	
	06235-00002	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3	0.022(2), 0.022(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	68	
	06236-00001	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.54	59	
	06236-00002	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.48	59	
	06236-00003	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.48	59	
	06236-00004	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.54	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4			IA: Keystone Certifications, Inc.												
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	06236-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.48	59
	06236-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4"" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.48	59
	06237-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.30	0.54	62
	06237-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.48	62
	06237-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.036(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.48	62
	06237-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.38	0.54	62
	06237-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.34	0.48	62
	06237-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4"" IG"	VF/VV	2	0.036(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.34	0.48	62
	06238-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.30	0.53	58
	06238-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.47	58
	06238-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.47	58
	06238-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.30	0.37	0.53	58
	06238-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.30	0.33	0.47	58
	06238-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4"" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.30	0.33	0.47	58
	06239-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.29	0.53	62
	06239-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.27	0.47	62

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06239-00003	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.27	0.47	62	
	06239-00004	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.26	0.37	0.53	62	
	06239-00005	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.26	0.33	0.47	62	
	06239-00006	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.26	0.33	0.47	62	
	06240-00001	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / 70/36 (DS 090) DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.35	0.52	59	
	06240-00002	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / 70/36 (DS 090) DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.47	59	
	06240-00003	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.52	59	
	06240-00004	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.47	59	
	06241-00001	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / 70/36 (DS 090) DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.32	0.47	59	
	06241-00002	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / 70/36 (DS 090) DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.32	0.47	59	
	06241-00003	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.47	59	
	06241-00004	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.47	59	
	06242-00001	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.22	0.26	0.42	68	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.		
	06242-00002	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.22	0.23	0.37	68		
	06243-00001	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.23	0.37	68		
	06243-00002	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.23	0.37	68		
	06244-00001	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.51	0.62	57		
	06244-00002	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.46	0.55	57		
	06244-00003	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.46	0.55	57		
	06244-00004	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.54	0.62	57		
	06244-00005	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.49	0.55	57		
	06244-00006	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.49	0.55	57		
	06245-00001	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.51	0.62	61		
	06245-00002	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.46	0.55	61		
	06245-00003	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.46	0.55	61		
	06245-00004	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.54	0.62	61		
	06245-00005	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.49	0.55	61		
	06245-00006	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.49	0.55	61		

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06246-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.51	0.61	56	
	06246-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.45	0.55	56	
	06246-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.45	0.55	56	
	06246-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	N		CL	0.31	0.53	0.61	56	
	06246-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.31	0.48	0.55	56	
	06246-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: AIR(100)	S	0.75	CL	0.31	0.48	0.55	56	
	06247-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.51	0.61	60	
	06247-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.45	0.55	60	
	06247-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.45	0.55	60	
	06247-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.54	0.61	60	
	06247-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.48	0.55	60	
	06247-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.48	0.55	60	
	06248-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.49	0.60	58	
	06248-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.44	0.54	58	
	06248-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.30	0.50	0.60	58	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06248-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.45	0.54	58	
	06249-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090) DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.44	0.54	58	
	06249-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090) DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	58	
	06249-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.45	0.54	58	
	06249-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	P1-S	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	58	
	06250-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.45	0.56	66	
	06250-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.41	0.50	66	
	06251-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.24	0.41	0.50	66	
	06251-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	P1-S	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.41	0.50	66	
	06252-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	SS-D	Fill 1: AIR(100)	N		CL	0.44	0.61	0.63	44	
	06252-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.44	0.54	0.56	44	
	06252-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.44	0.54	0.56	44	
	06253-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	SS-D	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	44	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06253-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	44	
	06253-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	44	
	06254-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	44	
	06254-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	44	
	06254-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	44	
	06255-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	44	
	06256-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	42	
	06256-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42	
	06256-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	42	
	06256-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	06257-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42	
	06257-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	06257-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06257-00004	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	06258-00001	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	52	
	06258-00002	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	52	
	06259-00001	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.37	0.49	0.52	52	
	06259-00002	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	SS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	52	
	06260-00001	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.54	56	
	06260-00002	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.48	56	
	06260-00003	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): E270 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.48	56	
	06260-00004	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.54	56	
	06260-00005	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.32	0.48	56	
	06260-00006	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.32	0.48	56	
	06261-00001	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.28	0.54	59	
	06261-00002	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.26	0.48	59	
	06261-00003	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): E270 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.26	0.48	59	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06261-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.36	0.54	59	
	06261-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.32	0.48	59	
	06261-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (SS/SS) 3/4" IG"	VF/VV	2	0.037(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.32	0.48	59	
	06262-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.29	0.53	55	
	06262-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.26	0.47	55	
	06262-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.26	0.47	55	
	06262-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.35	0.53	55	
	06262-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.31	0.47	55	
	06262-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.31	0.47	55	
	06263-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.28	0.53	58	
	06263-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.25	0.47	58	
	06263-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.25	0.47	58	
	06263-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.35	0.53	58	
	06263-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.32	0.47	58	
	06263-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E270 (DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.32	0.47	58	
	06264-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.33	0.52	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06264-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.30	0.47	56	
	06264-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.28	0.52	56	
	06264-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.25	0.47	56	
	06265-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.30	0.47	56	
	06265-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E270 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.037(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.30	0.47	56	
	06265-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.25	0.47	56	
	06265-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.037(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.25	0.47	56	
	06266-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.23	0.24	0.42	66	
	06266-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	66	
	06267-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.22	0.37	66	
	06267-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E270 / arg / clr / arg / E270 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.037(2), 0.037(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.22	0.37	66	
	06268-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.21	0.50	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4			IA: Keystone Certifications, Inc.												
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	06268-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.19	0.44	56
	06268-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.19	0.44	56
	06268-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.50	56
	06268-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.44	56
	06268-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (SS/SS) 3/4"" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.44	56
	06269-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.50	59
	06269-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	59
	06269-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (SS/SS) 3/4"" IG"	VF/VV	2	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	59
	06269-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.50	59
	06269-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	59
	06269-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (SS/SS) 3/4"" IG"	VF/VV	2	0.022(3)	0.563	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	59
	06270-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.30	0.21	0.49	55
	06270-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.30	0.19	0.44	55
	06270-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / air / clr (DS/DS) 3/4"" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.30	0.19	0.44	55
	06270-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	N		CL	0.30	0.29	0.49	55
	06270-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4"" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	G	0.75	CL	0.30	0.27	0.44	55

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4													IA: Keystone Certifications, Inc.			
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06270-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: AIR(100)	S	0.75	CL	0.30	0.27	0.44	55	
	06271-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.21	0.49	59	
	06271-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.19	0.44	59	
	06271-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.19	0.44	59	
	06271-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.27	0.30	0.49	59	
	06271-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.27	0.27	0.44	59	
	06271-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / E366 (DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.500	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.27	0.27	0.44	59	
	06272-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.48	56	
	06272-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.43	56	
	06272-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.21	0.48	56	
	06272-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.19	0.43	56	
	06273-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.26	0.43	56	
	06273-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / E366 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.022(3)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.26	0.43	56	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.	
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06273-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.30	0.19	0.43	56	
	06273-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / lami (DS/DS 090) DS) 3/4" IG"	VF/VV	2	0.022(2)	0.345	SS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.30	0.19	0.43	56	
	06274-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.22	0.19	0.36	66	
	06274-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.22	0.17	0.32	66	
	06275-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.23	0.17	0.32	66	
	06275-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): E366 / arg / clr / arg / E366 (SS/SS/SS) 3/4" IG (SS-D)"	VF/VV	3	0.022(2), 0.022(5)	0.266,0.266	SS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.23	0.17	0.32	66	
	06276-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	TS-D	Fill 1: AIR(100)	N		CL	0.44	0.61	0.63	44	
	06276-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.44	0.54	0.56	44	
	06276-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (SS/SS) 3/4" IG"	VF/VV	2		0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.44	0.54	0.56	44	
	06277-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	TS-D	Fill 1: AIR(100)	N		CL	0.44	0.59	0.62	43	
	06277-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.44	0.53	0.56	43	
	06277-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (DS/DS) 3/4" IG"	VF/VV	2		0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.44	0.53	0.56	43	
	06278-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	N		CL	0.45	0.57	0.62	43	
	06278-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06278-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.45	0.51	0.55	43	
	06279-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr (5mm/DS) 3/4" IG"	VF/VV	2		0.438	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.45	0.51	0.55	43	
	06280-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.55	0.61	42	
	06280-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.49	0.55	42	
	06280-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	N		CL	0.46	0.57	0.61	42	
	06280-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.46	0.51	0.55	42	
	06281-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.49	0.55	42	
	06281-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / air / clr (DS 090 DS/DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.49	0.55	42	
	06281-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.47	0.51	0.55	42	
	06281-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2		0.345	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.47	0.51	0.55	42	
	06282-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	N		CL	0.37	0.55	0.58	51	
	06282-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.37	0.49	0.52	51	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4										IA: Keystone Certifications, Inc.						
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06283-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	G	0.75	CL	0.38	0.49	0.52	51	
	06283-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / clr / air / clr (SS/SS/SS) 3/4" IG (P1-S)"	VF/VV	3		0.250,0.250	TS-D	Fill 1: AIR(100) , Fill 2: AIR(100)	S	0.75	CL	0.38	0.49	0.52	51	
	06284-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.54	55	
	06284-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.48	55	
	06284-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.48	55	
	06284-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.37	0.54	55	
	06284-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.48	55	
	06284-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.48	55	
	06285-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.30	0.54	58	
	06285-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.48	58	
	06285-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.036(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.48	58	
	06285-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.38	0.54	58	
	06285-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.34	0.48	58	
	06285-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (SS/SS) 3/4" IG"	VF/VV	2	0.036(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.34	0.48	58	
	06286-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.30	0.53	53	

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	06286-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.27	0.47	53
	06286-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.27	0.47	53
	06286-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.31	0.37	0.53	53
	06286-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.31	0.33	0.47	53
	06286-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.31	0.33	0.47	53
	06287-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.29	0.53	56
	06287-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.27	0.47	56
	06287-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.036(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.27	0.47	56
	06287-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.28	0.37	0.53	56
	06287-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.28	0.33	0.47	56
	06287-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 70/36 (DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.28	0.33	0.47	56
	06288-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.35	0.52	55
	06288-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.32	0.47	55
	06288-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.29	0.52	55
	06288-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.26	0.47	55

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4																IA: Keystone Certifications, Inc.															
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.																
	06289-00001	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.32	0.47	55																
	06289-00002	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): lami / arg / 70/36 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.036(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.32	0.47	55																
	06289-00003	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.31	0.26	0.47	55																
	06289-00004	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.036(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.26	0.47	55																
	06290-00001	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.24	0.26	0.42	63																
	06290-00002	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.24	0.23	0.37	63																
	06291-00001	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.25	0.23	0.37	63																
	06291-00002	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 70/36 / arg / clr / arg / 70/36 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.036(2), 0.036(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.23	0.37	63																
	06292-00001	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.51	0.62	53																
	06292-00002	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.46	0.55	53																
	06292-00003	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): 80/70 / air / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.46	0.55	53																
	06292-00004	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	N		CL	0.33	0.54	0.62	53																
	06292-00005	"148.294 / Opt 4 (INN Refo KS/LS/S) Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.33	0.49	0.55	53																

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4															IA: Keystone Certifications, Inc.
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Llys	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	06292-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.33	0.49	0.55	53
	06293-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.62	56
	06293-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.46	0.55	56
	06293-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (SS/SS) 3/4" IG"	VF/VV	2	0.095(2)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.46	0.55	56
	06293-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.62	56
	06293-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.49	0.55	56
	06293-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (SS/SS) 3/4" IG"	VF/VV	2	0.095(3)	0.563	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.49	0.55	56
	06294-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.51	0.61	52
	06294-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.45	0.55	52
	06294-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / air / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.45	0.55	52
	06294-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	N		CL	0.32	0.53	0.61	52
	06294-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	G	0.75	CL	0.32	0.48	0.55	52
	06294-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / air / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: AIR(100)	S	0.75	CL	0.32	0.48	0.55	52
	06295-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.51	0.61	55
	06295-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.45	0.55	55
	06295-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr (DS/DS) 3/4" IG"	VF/VV	2	0.095(2)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.45	0.55	55

NFRC Product Certification Authorization Report



Manufacturer: American Window Alliance, Inc. **Product Series:** Windgate/Belmont/Hawthorne 2-Lite Slider **Simulation Lab:** SATI **Initial Cert. Date:** 08/10/2000
Street: 301 Crescent Boulevard **Product Type:** HSXX **Sim. Report #:** G6290.02-116-45 **Re-Certification Date:** 08/04/2017
City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
Print Date: 08/07/2017 **VR (Standard Screen):** **Test Date:** 04/05/2017 **Expiration Date:** 04/25/2022
VR (Enhanced Screen):

CPD Number: AMW-K-4														IA: Keystone Certifications, Inc.		
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06295-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.29	0.54	0.61	55	
	06295-00005	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.29	0.48	0.55	55	
	06295-00006	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): clr / arg / 80/70 (DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.500	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.29	0.48	0.55	55	
	06296-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.49	0.60	54	
	06296-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.44	0.54	54	
	06296-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	N		CL	0.31	0.50	0.60	54	
	06296-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.31	0.45	0.54	54	
	06297-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.44	0.54	54	
	06297-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): lami / arg / 80/70 (DS 090 DS/DS) 3/4" IG"	VF/VV	2	0.095(3)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.44	0.54	54	
	06297-00003	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.32	0.45	0.54	54	
	06297-00004	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / lami (DS/DS 090 DS) 3/4" IG"	VF/VV	2	0.095(2)	0.345	TS-D	Fill 1: ARG/AIR(90/10)	S	0.75	CL	0.32	0.45	0.54	54	
	06298-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	N		CL	0.25	0.45	0.56	62	

NFRC Product Certification Authorization Report



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City/State/Zip: Mt. Ephraim, NJ 08059 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 05/17/2017 **Revised Date:** 05/17/2017
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VR (Enhanced Screen):

CPD Number: AMW-K-4			IA: Keystone Certifications, Inc.													
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	06298-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.25	0.41	0.50	62	
	06299-00001	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	G	0.75	CL	0.26	0.41	0.50	62	
	06299-00002	"148.294 / Opt 4 (INN Refo KS/LS/S Foam): 80/70 / arg / clr / arg / 80/70 (SS/SS/SS) 3/4" IG"	VF/VV	3	0.095(2), 0.095(5)	0.250,0.250	TS-D	Fill 1: ARG/AIR(90/10) , Fill 2: ARG/AIR(90/10)	S	0.75	CL	0.26	0.41	0.50	62	

Baseline Information

Test Lab	Test Date	Test Size	Tested U-Value	Standard U-Value	Test Report Number
TATI	04/05/2017	1499 mm x 1200 mm	0.265	0.263	G6291.02-116-46

Comments: 90% Argon, Single Probe. Foam options filled with PU foam.

I hereby certify that all requirements for NFRC Certification Authorization have been met and that the above information is true and correct, to the best of my knowledge.

Authorized IA
Signature: _____