



2018 Price List

79 Walton Street, Attleboro MA

508-455-0661 • FAX 508-455-0622 • 1-888-STERGIS

STERGIS VINYL WINDOWS

PATIO AND SWING DOORS

1100 Series Sliding Patio Door
1100 Series Swing Doors
Patio Door Installation Instructions
Bay and Bow Series
Bay/Bow Installation Instructions

BELMONT REPLACEMENT

Double Hung Windows
Picture Windows
Casement/Awning Windows

Cellar Hopper and Deadlight Windows
Sliding Windows
Replacement Installation Instructions
Vinyl Window Measuring Sheet

WINDGATE NEW CONSTRUCTION

Double Hung Windows
Single Hung Windows
Picture/Transom Windows
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Architectural Shapes
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STORMGATE NEW CONSTRUCTION

Double Hung
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STERGIS ALUMINUM PRODUCTS

STORM WINDOWS

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Storm Sliders
Storm Window Measuring Instructions
Storm Window/Door Measuring Sheet

MISCELLANEOUS

Glass
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Frequently Asked Questions



STERGIS
WINDOWS • DOORS

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79 Walton Street, Attleboro MA

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Platinum 1100 Sliding Patio Door

Nominal size	XO/OX 5068	XO/OX 6068	XO/OX 8068	OOX/OXO 9068	OXXO 12068	Custom sizes
Unit size	59 ½ x 79 ½	71 ½ x 79 ½	95 ½ x 79 ½	107 ½ x 79 ½	140 ½ x 79 ½	+ - 10ui
White-with standard dual point no lock handle	\$1007	\$1049.00	\$1558.00	\$1897.00	\$2544.00	+400
Sandstone (Hardware included)	Add 10%	Add 10%	Add 10%	Add 10%	Add 10%	+400
Laminated Exterior (Bronze or Black) *White Interior	Add 25%	Add 25%	Add 25%	Add 25%	Add 25%	Add 25%
X= Operating O= Stationary Viewed From Exterior						
Platinum 1100 Transoms/ Sidelites						
Sidelite /Transom (3202/3204)	\$ 4.70 ui Clear Temp	\$4.90 ui Low-E Temp	\$5.10 ui EnerG Temp	Add 10% For Beige		
SIZE LIMITATIONS	Min Width 48" Max Width 192"	Min Height 48" Max Height 98"	Recommended Uses: Residential and Light Commercial			

OPTIONS

GLASS

Clear Tempered	\$ 50.00 per panel
Low-E Tempered	\$ 50.00 per panel
EnerG Tempered	\$ 75.00 per panel
EnerG X5 Tempered	\$100.00 per panel

GRIDS

Contoured	\$ 60.00 per panel
SDL Exterior Surface 1	\$ 125.00 per panel
SDL Interior Surface 4	\$ 125.00 per panel
Custom Two-Toned	\$ 100.00 per panel
Diamond	\$ 300.00 per panel
Prairie	\$ 60.00 per panel

SCREEN

Full Aluminum	Standard
Full Fiberglass	Available
Full Pet	\$ 0.70 per ui

OTHER

Nailing Fin	Standard
4 9/16" Extension Jamb	\$ 75.00 per door
6 9/16" Extension Jamb	\$ 100.00 per door
Salem Trim No Sill	\$ 160.00 per door
N.E. Flat Casing No Sill	\$ 160.00 per door
Mull Charge	\$ 48.00 per mullion

HARDWARE

White/ Beige Dual Point No Lock	\$ 100.00 each
White Dual Point Lock Only	\$ 50.00 each
White Handle With Key Lock	\$ 125.00 each
Brass/Satin Nickel With Key Lock	\$ 200.00 each
Stainless Multi Point with Key Lock	\$ 200.00 each
Dead Bolt Foot Lock	\$ 30.00 each

TEST SUMMARY

	NFRC	U-Factor	SHGC	CRF	
Structural Rating: AAMA/WDMA/CSA 101/IS2/A440-05 Air Infiltration: @ 1.56PSF Astm E283	SGD R50 – R65 .17 cfm /ft.	Clear	0.43	0.48/0.42	47
Water Penetration: @ 5.25 psf Astm E547	No Entry	Low-E	0.31	0.31/0.27	60
Uniform Structural Load @ 50psf (exterior) Astm E300 @ 50psf (interior)	No damage No damage	EnerG	0.27	0.31/0.27	64



STERGIS Vinyl Sliding Patio Door

Architect's Specifications

Residential and Light Commercial Applications

General: Manufactured by STERGIS Windows and Doors, Attleboro, Massachusetts

Operation: Sash panel shall be reversible for left or right hand operation on stock size doors. Operating panel shall glide on tandem stainless steel TRUTH adjustable wheels. Wheels shall glide on a replaceable lexan monorail. Stationary panel shall be fixed at head and sill with interlock anchors. Panels shall have a positive interlock at the meeting rail when in the closed position.

Materials: Frame extrusion shall be 100% virgin uPVC. Jamb frame shall have seven tubular hollows and have a nominal wall thickness of .100.

Frame Construction: Corners shall be mitered and welded at the head with a low profile sloped sill fastened to the jamb. The frame is to be 4 9/16". The frame is designed with a complete screen track on the exterior. The sill shall have 10 tubular hollows and a nominal wall thickness of .080". Dual weather seals will be employed at every contact point with the sash. A vinyl cover shall be snapped onto the fixed jamb inside leg to give the jamb a finished appearance.

Panel Construction: Panel profiles shall have mitered and fusion welded corners. Panel profiles shall have a nominal wall thickness of .100". Panel frame shall have four tubular hollows and shall be reinforced with an 0.060" thick 1 7/8" deep galvanized steel channels in the meeting rails and locking stiles. All handle and locking hardware will be secured to the reinforcement. The panel shall have a removable interior snap-in glazing bead which will allow replacement of glass without taking the entire sash apart.

Screen Construction: The door screen frame shall be of heavy tubular aluminum, reinforce at the corners with extruded corner keys for maximum strength. Insect screening shall be 18x16 non-glare charcoal finished, fiberglass mesh held in place with a corrugated vinyl screen spline.

Available Finishes: Shall be solid vinyl throughout in white or Beige.

Glazing: Insulating glass shall have an overall thickness of 1" and a minimum 1/2" air space inside dimension. Standard glass shall be single strength 2.5mm and double strength 3.0 domestic type B float glass. Dura Seal Warm Edge glass spacer will be used to form a continuous hermetic seal around the insulated unit to encapsulate the air space. All glass lites will be installed via CBA and SIGMA standards in accordance with ASTM E773 and E774. Methods to include proper drainage, oval staggered weep system, and setting blocks with appropriate blocking.

Weather stripping: Weather stripping on the main frame perimeter shall be silicone treated woolpile with a polypropylene fin in the center. Each sash meeting rail shall contain one course of fin-type weather stripping and a positive interlock for a triple seal.

Hardware: Included with the door is white/beige dual point hardware with optional key set and all the necessary screws for installation.



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PVC 1100 Atrium/French Swing Door

Nominal size	3068		5068		6068		8068		Custom sizes
Unit size	35 ½ x 79 ½		59 ½ x 79 ½		71 ½ x 79 ½		95 ½ x 79 ½		+ - 10 ui
	White	Beige	White	Beige	White	Beige	White	Beige	
French Door (3304/3305)	N/A	N/A	\$2309	+10%	\$2542	+10%	\$3241	+10%	+\$600
Atrium Door (3302/3303)	N/A	N/A	\$1982	+10%	\$2145	+10%	\$2845	+10%	+\$600
Single Swing Door (3300/3301)	\$1357	+10%	N/A	N/A	N/A	N/A	N/A	N/A	+\$600
Sidelite/Transom (3203)	\$4.70 ui Clear Temp		\$4.90 Ui Low-E Temp		\$5.10 ui EnerG Temp		Add 10% For Beige		

SIZE LIMITATIONS	Min Width	26"	Min Height	48"	Recommended Uses: Residential and Light Commercial
	Max Width	42" single 96" double	Max Height	98"	

Feature Summary

- Screen Available on *In Swing Atrium Door Only*
- Screens **NOT** Available on French or Single Swing Doors
- All Welded frame and sash
- Steel reinforced sash
- 1" insulated tempered warm edge glass
- 3 adjustable 3D hinges per door panel
- 4 9/16" depth frame – Replacement or New Construction
- White Multi Point Hardware With Key Lock Standard
- Key lock cylinder with oversize dead bolt
- Replaceable Q-Ion weather seals
- High pressure aluminum sill threshold

OPTIONS

GLASS

Clear Tempered	Standard
Low-E Tempered	\$ 50.00 per panel
EnerG Tempered	\$ 75.00 per panel
EnerG X5 Tempered	Call for pricing

GRIDS

Contoured	\$ 60.00 per panel
SDL Exterior Surface 1	\$ 125.00 per panel
SDL Interior Surface 4	\$ 125.00 per panel
Custom Two-Toned	\$ 100.00 per panel
Diamond	\$ 200.00 per panel
Prairie	\$ 60.00 per panel

SCREEN (ATRIUM ONLY)

Full Aluminum	Standard
Full Fiberglass	Available
Full Pet	\$ 0.70 per ui

HARDWARE

White Multi Point With Key Lock	\$ 150.00 per handle
Brass Multi Point With Key Lock	\$ 200.00 per handle
Satin Nickel Multi Point With Key Lock	\$ 200.00 per handle

OTHER

Nailing Fin	Standard
4 9/16" Extension Jamb	\$ 75.00 per door
6 9/16" Extension Jamb	\$ 100.00 per door
Salem Trim No Sill	\$ 160.00 per door
N.E. Flat Casing No Sill	\$ 160.00 per door
Mull Charge	\$ 48.00 per mullion

TEST SUMMARY

	NFRC	U-Factor	SHGC	CRF
Structural Rating: AAMA/WDMA/CSA 101/IS2/A440-05	SGD- R50 – R65			
Air infiltration: @ 1.56PSF Astm E283	Clear	0.47	0.64	42
Water Penetration: @ 5.25 psf Astm E547	Low-E	0.32	0.31	52
Uniform Structural Load @ 50psf (exterior) Astm E300 @ 50psf (interior)	EnerG	0.29	0.30	55
	No Entry No damage No damage			



STERGIS PVC

Single Swing/Atrium/French Door System

Architect's Specifications

General: Manufactured by STERGIS Windows and Doors, Attleboro, Massachusetts

Operation: Door panels swing on Continuous Gear hinge rated for 1200 lbs. Full locking hardware consist of white multipoint lever handles and deadbolt pins engaging in the head and sill of the frame. A mortise type lock and deadbolt engage in the midrail keeper. Stationary panel meet the operable sash by means of an astrical or jamb connector. Doors can be fabricated in inswing and outswing styles.

Materials: Frame extrusion shall be 100% virgin uPVC. Jamb frame shall have seven tubular hollows and have a nominal wall thickness of .125.

Frame Construction: Corners shall be mitered and entirely welded at the head and sill with a low profile aluminum threshold at the sill. The frame is to be 4 9/16" flat frame. The frame is designed to receive a rolling screen on the exterior (on Atrium, in-swing only). All hardware is installed and adjustable. Replaceable compression Q-lon seals are used around the entire frame. Installation holes are drilled and countersunk and are supplied with smooth cover buttons.

Panel Construction: Panel profiles shall have mitered and fusion welded corners. Panel profiles shall have a nominal wall thickness of .125". Panel frame shall have four tubular hollows and shall be steel reinforced with an 0.060" thick 1 7/8" deep galvanized steel channels in the meeting rails and locking stiles. The panel shall have a removable interior snap-in glazing bead which will allow replacement of glass without taking the entire sash apart.

Screen Construction(when available): The door screen frame shall be of heavy tubular aluminum, reinforce at the corners with extruded corner keys for maximum strength. Insect screening shall be 18x16 non-glare charcoal finished, fiberglass mesh held in place with a corrugated vinyl screen spline. Available on Inswing Atrium only

Available Finishes: Shall be solid vinyl throughout in white and beige color.. The exterior is available in Bronze Laminate or Black Laminate

Glazing: Insulating glass shall have an overall thickness of 1" and a minimum 3/4" air space inside dimension. Standard glass shall be 1/8" Tempered Clear. Dura Seal Warm Edge glass spacer will be used to form a continuous hermetic seal around the insulated unit to encapsulate the air space. All glass lites will be installed via CBA and SIGMA standards in accordance with ASTM E773 and E774. Methods to include proper drainage, oval staggered weep system, and setting blocks with appropriate blocking.

Weather stripping: Weather stripping on the main frame perimeter shall be Q-lon sealed Bulb seal.. All seals are replaceable and color matched.

Hardware: Included with the door is white multipoint hardware with key lock. Mechanical lock system is stainless components. Continuous Piano Hinge system in Anodized corrosion resistant finish.

Impact Testing: Available on all Single Swing and Atrium Doors. French doors outswing only

Installation instructions for Stergis Patio Doors

NOTE: These installation instructions require that some type of weather resistant" house wrap" has been installed on the exterior of the sheathing prior to the installation of the doors. Installation directly against the sheathing is not recommended. Additional materials needed to complete the installation are: silicone caulking, 6" wide (minimum) membrane water barrier tape, shimming material, 1-1/2" galvanized or stainless steel screws or nails for installation.

New Construction

Prepare the Opening

1. Allow for clearance of at least ¼" on either side of rough opening and ½" above the head jamb.
2. Make sure the floor is level.
3. Before you set the door in the opening, apply a high-grade sealant in two parallel strips along the length of the sub-floor from one side of the opening to the other. Also run a 3/16" bead of sealant (formulated to adhere to vinyl) around the perimeter of the rough opening.

Installing the Door

1. Remove the packaging material from the door.
2. With the operable sash removed, set the bottom of the doorframe onto the sill plate and gently tilt until the nailing flange is secured against the sheathing. Make sure the doorframe is properly centered.
3. Insert a temporary screw through the nail fin at the top of the doorframe to hold the door in place.
4. Make sure the door frame is level and that the side jambs are plumb and square.
5. Place three sets of wood shims along each side of the doorframe between the jamb and the rough opening. Align at least one shim with the strike plate on the latch side of the jamb. Secure the doorframe into the rough opening making certain to maintain square and level positioning of the door. Do not over tighten or distort the jambs.
6. Check again for square and level installation.
7. Set operating panel into the doorframe and make necessary adjustments to rollers to maintain equal height and smooth operation of the operable sash.
8. Close the door panel and adjust the shims to maintain uniform spacing between the operable sash and the doorframe all the way up and down the jamb. Also check that the operating clearance between the door panel and the head is uniform. Adjust with shims or adjust the panel rollers if necessary.
9. Remove the temporary keeper screws and replace with the 3" screws provided making certain to screw into the wood framework of the rough opening.
10. Fasten the door with an adequate number of nails around the exterior nailing flange (nail every 12"). Cover the nailing flange with a building wrap tape to insure air and water tightness.
11. Insulate between frame and rough opening with fiberglass insulation, DO NOT USE EXPANDING FOAM INSULATION.
12. Proceed with interior finish.

50 Years of Quality Aluminum and Vinyl Windows and Doors

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Installation instructions for Stergis Patio Doors

NOTE: These installation instructions require that some type of weather resistant" house wrap" has been installed on the exterior of the sheathing prior to the installation of the doors. Installation directly against the sheathing is not recommended. Additional materials needed to complete the installation are: silicone caulking, 6" wide (minimum) membrane water barrier tape, shimming material, 1-1/2" galvanized or stainless steel screws or nails for installation.

REPLACEMENT

Prepare the Opening

1. Remove existing door from opening making certain to clear away all debris and any exposed nails and screws from opening.
2. Allow for clearance of at least ¼" on either side of rough opening and ½" above the head jamb.
3. Make sure floor is level.
4. Before you set the door in the opening, apply a high-grade sealant in two parallel strips along the length of the sub-floor from one side of the opening to the other.

Installing the Door

1. Remove all packaging from the door.
2. With the operable sash removed, gently lift the door into the opening and set the threshold in place on top of the sealant.
3. Check the threshold for level and use wood shims to plumb the jambs. Place at least three shims between the jamb and opening on each side of the door. Make certain to place a shim at the point where the striker plate will be secured to the opening and at each installation screw hole.
4. Using the screws provided, temporarily fasten the frame into the opening. Do not tighten the screws at this time.
5. Install the operable sash into the frame and check for plumb and square. Make the necessary adjustments to the operable sash using the roller adjustments or to the frame using shims.
6. Check again for plumb and squareness and make certain that the operable sash moves smoothly.
7. Tighten the installation screws making certain not to distort the frame. Insert the hole plugs provided into the screw holes.
8. Remove the temporary keeper screws and replace with the 3" screws provided making certain to screw through the shim and into the wood jamb. Do not over tighten the screws.
9. Insulate between frame and rough opening with fiberglass insulation, DO NOT USE EXPANDING FOAM INSULATION.
10. Proceed with interior finish.

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Bow Windows

Width	Number of lites	Price	Feature summary
49" – 72"	3	\$20/united inch	<ul style="list-style-type: none"> • Head / Seat and Side Jambs are 1 ¼" Wood (Birch) Laminate • Custom Wall Depth • Custom Projection • Standard with 2 Casement Vents/Double Hung are available • Includes Cable Support System • Jamb & Head Fasteners required • Insulation Header & Seat Arm
73" – 96"	4		
85" – 132"	5		
133" – 144" Min Width 49" Max Width 144" Min Height 36" Max Height 75"	6		

Bay Windows

Width	Number of lites	Price	Feature summary
Any width 49" – 108"	Any height 36" – 75"	\$20/united inch	<ul style="list-style-type: none"> • Head / Seat and Side Jambs are 1 ¼" Wood (Birch) Laminate • Custom Wall Depth • Custom Projection • Standard with 2 Double Hung Flankers • Casement flankers available • Includes Cable Support System • Jamb & Head Fasteners Required • Insulation Header & Seat Arm
Min Width 49"	Max Width 108"		
Min Height 36"	Max Height 75"		

OPTIONS

GLASS

Clear	Standard
Low-E	\$ 12.00 per sash
EnerG Performance	\$ 24.00 per sash
EnerG X5	\$36.00 per sash
Obscure	\$ 14.00 per sash
Obscure Low-E	\$ 26.00 per sash
Obscure EnerG	\$ 38.00 per sash
Tempered Clear	\$ 100.00 per sash
Tempered Low-E	\$ 112.00 per sash
Tempered EnerG	\$ 124.00 per sash
Clear Obscure Tempered	\$ 114.00 per sash
Low-E Obscure Tempered	\$ 126.00 per sash
EnerG Obscure Tempered	\$ 138.00 per sash
Low-E Laminated (.030, .060, .090)	Call for Pricing

SCREEN

Full Aluminum	\$ 24.00
Full Fiberglass	\$ 24.00
Pet Non-Locking Half Screen	\$ 0.70 per ui
Pet Locking Half Screen	\$ 0.70 per ui
Full Pet	\$ 0.70 per ui

GRIDS

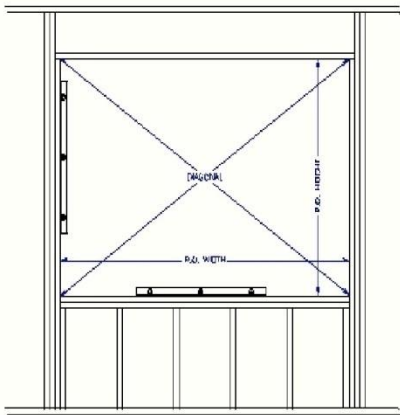
Contoured	\$ 26.00 per sash
Flat	\$ 26.00 per sash
SDL Exterior	\$ 50.00 per sash
Surface 1	\$ 50.00 per sash
SDL Interior	\$ 26.00 per sash
Surface 4	\$ 80.00 per sash
Prairie	\$ 75.00 per sash
Diamond	
Custom 2 Toned	

OTHER

Foam Wrap	\$ 28.00 per window
Snap on Nailing	\$ 24.00 per mullion
Fin No J	\$ 40.00
Snap on Nailing	
Fin With J	
Mull Charge	
Oriel	
Add	

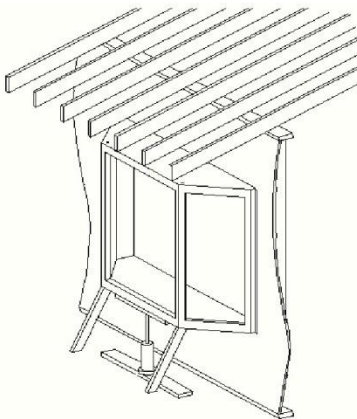
Installation Instructions for Stergis Bay & Bow Windows

CAUTION: Stergis Bay and Bow windows come pre-assembled and as such are extremely heavy and awkward to handle. Be sure to have proper assistance to lift the unit into place and proper means to temporarily support the weight of the unit during installation.



Preparation of the Opening

1. Frame new construction opening to $\frac{1}{2}$ ' larger than the tip-to-tip dimension of the bay or bow window assembly. Opening must be plumb, level and square as shown to the left. Must be able to properly support the weight of the unit. Ensure that framing practices meet all applicable building codes.
2. Prepare an existing opening in the same manner as above, checking for any damage to the opening as the old window is removed. Check framing for any signs of damage or decay and replace or repair as necessary.



Installation of the New Window:

1. Apply a generous bead of silicone sealant on the inside surface of the Nail fin on either side of the window. Lift the window up and into the Rough opening, taking care to protect the wood veneer on the head, seat and side boards of the unit. Provide temporary support underneath the window until the cable system / other permanent supports are installed.
2. Check the level of the window at the seat board parallel to the wall and shim under the unit as necessary. Next use a jack to lift the outside edge of the window as shown to the left, so that it is approximately $\frac{1}{4}$ " above level. **DO NOT** remove the jack/ temporary support until the window is permanently supported.

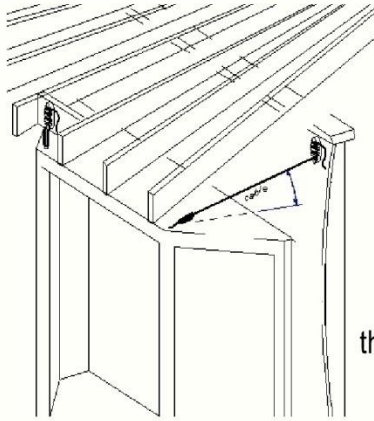
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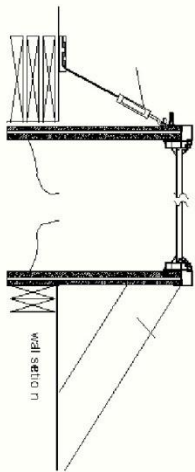
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Permanent Support of Window:

1. Install the cable cleats supplied to a structural component of the framing using the screws provided. Two examples of possible location are shown in picture to the left, Be sure to position the cleat so the cable will have at least a 15* angle when installed.
2. Attach the cable-turnbuckle assembly to the brackets on the top of the unit. Be sure the turnbuckles are adjusted to the longest length at this point. Wrap the other end of the cable around the cleat from bottom to top in a criss-cross pattern from bottom to top and back down, making it as tight as possible.
3. Slowly lower the jack supporting the outside edge of the window until the weight of the window is supported by the cables. double check the security of the cable and cleats. Using a level on the seat board, tighten the turnbuckles until the window is level from front to back. It may be easier to adjust the turnbuckle by raising and lowering the window with a jack. Be sure to tighten both turnbuckles evenly.
4. Once the unit is level in the opening, Fasten the head, seat, and side boards to the rough opening from the interior with 10d ss finish nails or 3" trim head screws spaced every 12" to 16". Shim Behind the fasteners if necessary. **NOTE:** if the cable support system proves unworkable for your install other means of support may be possible such as knee braces, post ect.



Finish and Adjustments:

Complete the framing, siding and or roofing details as per your specs. Requirements. Check the operation of the windows and make final adjustments as needed. Install fiberglass batt Insulation loosely in any interior gaps between the window and the rough opening. Install interior trim along the perimeter of the window frame.





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Belmont Replacement Double Hung

SIZE(united inches)	<83	84-100	>101	Feature summary
White	\$240	\$260	\$3.50ui	<ul style="list-style-type: none"> • Lifetime Transferable Warranty • Aluminum Half Screen Locking • Fully welded frame and sash • Stainless Steel Coastal Hardware • Double locks over 26" widths • Double weather-stripped sash • 3/4 " Warm Edge Insulated Glass Duralite • Tilting sash for easy cleaning • DS/SS Cardinal Glass
Sandstone	Add 10%	Add 10%	Add 10%	
Laminated Exterior (Bronze or Black) *White Interior	Call (Pricing)	For based on	Quote quantity)	
Size Limitations				
Minimum Width	16"	Minimum Height	24"	
Maximum Width	46"	Maximum Height	76"	
Recommended Uses: Residential Light Commercial				

OPTIONS

GLASS

Clear	Standard
Low-E	\$ 12.00 per sash
EnerG Performance	\$ 24.00 per sash
EnerG X5	\$36.00 per sash
Obscure	\$ 14.00 per sash
Obscure Low-E	\$ 26.00 per sash
Obscure EnerG	\$ 38.00 per sash
Tempered Clear	\$ 100.00 per sash
Tempered Low-E	\$ 112.00 per sash
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EnerG Obscure Tempered	\$ 138.00 per sash
Low-E Laminated (.030, .060, .090)	Call for Pricing

GRIDS

Contoured	\$ 26.00 per sash
Flat	\$ 26.00 per sash
SDL Exterior Surface 1	\$ 50.00 per sash
SDL Interior Surface 4	\$ 50.00 per sash
Prairie	\$ 26.00 per sash
Diamond	\$ 80.00 per sash
Custom 2 Toned	\$ 75.00 per sash

OTHER

Foam Wrap	\$ 20.00 per window
Snap on Nailing Fin No J	\$ 28.00 per window
Snap on Nailing Fin With J	\$ 28.00 per window
Mull Charge	\$ 24.00 per mullion
Oriel	Add \$ 40.00

SCREEN

Full Aluminum	\$ 24.00
Full Fiberglass	\$ 24.00
Pet Non-Locking Half Screen	\$ 0.70 per ui
Pet Locking Half Screen	\$ 0.70 per ui
Full Pet	\$ 0.70 per ui

Test summary	NFRC	U-Factor	SHGC	CRF
Structural Rating: AAMA/WDMA/CSA 101/IS2/A440-05 R35 – R50	Clear	0.45	0.60	45
Air infiltration: @ 1.56 psf (25 mph) .14 cfm /ft2	Low-E	0.31	0..29	57
Water Penetration: @ 6 psf No Entry	EnerG	0.28	0.29	61
Uniform Structural Load: @ 40 psf No Damage	EnerG x5	0..27	0.21	61
Uniform Load Deflection: @ 60 psf No Damage				
Deglazing Pass				
Forced Entry Resistance Pass L 10				



STERGIS BELMONT Double Hung Architect's Specifications

General: Manufactured by STERGIS Windows and Doors, Attleboro, Massachusetts

Operation: Sash shall be counterbalanced to remain as placed during window operation. Both sashes shall tilt inwards for cleaning exterior glass surface. The top sash stiles shall be fitted with two security latches which, when extended, shall prevent the bottom sash from being opened more than three inches. Sash locks shall function to secure the opening and, through a cam-action mechanism, draw the interlocking meeting rails together for a tight seal. Window screens shall be of side load design and include provisions for spring loaded latches located at each end of the bottom rail.

Materials: All vinyl extrusions shall be rigid, 100% virgin uPVC. The jambs shall have a nominal wall thickness of .065" and shall include five tubular hollows for maximum strength and thermal efficiency. The sill shall have a nominal wall thickness of .065" and shall contain multiple hollows for strength. Sash profiles shall have a nominal wall thickness of .065". The interlock meeting rail will be reinforced with tempered aluminum to which the locks are firmly secured. Sash lift rails shall be integral to the sash extrusion. Sash meeting rails shall include an integral leg, which shall provide positive meeting rail interlock in the assembled unit.

Frame Construction: Frame profile shall be designed to install as a new construction with nailing fin and J channel or as a replacement with head and sill expanders as job conditions require. Overall frame depth shall be 3 1/4". Window main frame header will be miter cut and welded with a minimum melt off of 5mm. The sill will be compound cut and welded construction for positive seal and esthetics. Drain weeps under the screen track will provide a quicker drainage of the sloped sill without compromise to performance.

Sash Construction: Sash frame shall be miter cut and fusion welded at the corners. Each welded sash top rail shall conceal a self-aligning spring-loaded sash release latch. Each welded sash shall have recessed, heavy wall pivot bars screwed in place by stainless screws at the bottom sash corners. Glazing shall be secured in place with a dual-durometer snap in a glazing bead along the exterior perimeter of sash. Widths shall have aluminum reinforcements at the meeting rails. Widths from 36 1/4" to 48" shall have reinforcements at all sash horizontals. Heights from 72" shall have reinforcements at all sash verticals.

Available Finishes: Shall be solid vinyl throughout in white or almond.

Screen Construction: Half-screen standard. Frame shall be of hollow extruded design with a .055" wall thickness and the wire shall be 18x16 mesh non-glare charcoal finished aluminum. Corners will be staked with die cast corners. The bottom rail shall have a spring loaded release latch on each side to lock the screen in place. The locking device will engage into the master frame wall and not be visible from the exterior.

Glazing: Insulating glass shall have an overall thickness of 3/4" and a minimum 1/2" air space inside dimension. Standard glass shall be single strength 2.5mm and double strength 3.0 domestic type B float glass. Dura Seal Warm Edge glass spacer will be used to form a continuous hermetic seal around the insulated unit to encapsulate the air space. All glass lites will be installed via CBA and SIGMA standards in accordance with ASTM E773 and E774. Methods to include proper drainage, oval staggered weep system, and setting blocks with appropriate blocking.

Weather Stripping: A minimum of two courses of solid barrier fin-type weather stripping shall be applied at the crack perimeter (excluding sill) of the window. The bottom sash rail shall fit the sill so that two fin and one closed-cell bulb weather seals engage completely. The interlock will consist of two weather seals attached to the full interlock from jamb to jamb

Hardware: Sash balances shall be factory calibrated block and tackle balances. Balance cords shall be anchored to the head of the jamb by use of a stainless steel clip. The slide shoe (balance shoe) will be attached directly to the balance assembly and ride with the sash in a vertical movement. The sash pivot bar will engage the balance shoe and lock the sash with in a consistent hold to the jamb allowing for no distorting during handling and installation. Sash locks shall be cam type and finished to match the vinyl extrusion color. Locks shall be securely anchored with color matched, self-tapping screws driven through the sash rail and into an extruded aluminum-reinforcing bar. Double locks on opening widths 26" or greater.



Belmont Replacement Picture Window

SIZE (united inches)	<55ui	56-150ui	Feature summary
White	\$2.80ui	\$3.60ui	<ul style="list-style-type: none"> • Welded Frames with Internal Glazing • Warm Edge Insulated Glass • 3 1/4" Frame • Accessory Grooves Inside & Outside • Beveled exterior / Contoured Interior • SS/DS Cardinal Glass • Head and Sill Angle Included
Sandstone	Add 10%	Add 10%	
Laminated Exterior (Bronze or Black) *White Interior	Call For Quote (Pricing Based	On Quantity)	
SIZE LIMITATIONS			
Minimum Size 14" x 14"		Maximum ui:	
Maximum Size 64" x 84"		148	

OPTIONS

GLASS

Clear	Standard
Low-E Glass	\$ 12.00 per window
EnerG Performance	\$ 24.00 per window
EnerG X5	\$36.00 per window
Obscure	\$ 14.00 per window
Obscure Low-E	\$ 26.00 per window
Obscure EnerG	\$ 38.00 per window
Tempered Clear	\$ 100.00 per window
Tempered Low-E	\$ 112.00 per window
Tempered EnerG	\$ 124.00 per window
Clear Obscure Tempered	\$ 114.00 per window
Low-E Obscure Tempered	\$ 126.00 per window
EnerG Obscured Tempered	\$ 138.00 per window
Low-E Laminated (.030, .060, .090)	Call For Pricing
Plexiglass With Dryer Vent	\$ 100.00 per window

GRIDS

Contoured	\$ 52.00 per window
Flat Grids	\$ 52.00 per window
SDL Exterior Surface 1	\$ 100.00 per window
SDL Interior Surface 4	\$ 100.00 per window
Prairie	\$ 26.00 per window
Diamond	\$ 160.00 per window
Custom 2 Toned	\$ 150.00 per window

OTHER

Foam Wrap	\$ 20.00 per window
Snap on Nailing Fin No J	\$ 28.00 per window
Snap on Nailing Fin With J	\$ 28.00 per window
Mull Charge	\$ 24.00 per mullion

Test summary	NFRC	U-Factor	SHGC	CRF
Structural Rating:	Clear	0.44	0.64	44
AAMA/WDMA/CSA 101/IS2/A440-05	Low-E	0.29	0.31	57
Air Infiltration: @ 1.56 psf (25 mph)	EnerG	0.25	0.31	61
Water Penetration: @ 15 psf	EnerG x5	0.25	0.23	57
Uniform Structural Load @ 75 psf/interior				



STERGIS BELMONT Picture Window (Replacement) Architect's Specifications

General: Manufactured by STERGIS Windows and Doors, Attleboro, Massachusetts

Operation: Sash shall be a fixed unit set in a frame. Sash is re-glazable by removing the snap-in glazing bead from the inside.

Materials: All vinyl extrusions shall be rigid, 100% virgin uPVC. Main frame profile shall have a nominal wall thickness of .075" and shall have four tubular hollows. On oversized windows, frames shall be reinforced with aluminum.

Frame Construction: Frame profile shall be designed to install as a new construction unit with nailing fin and J channel or be fitted with a one piece head expander and sill angle for replacement installation. Overall frame depth shall be 3 1/4". Main frame corners shall be mitered and fusion welded with a minimum melt off of 5mm for maximum strength and leak resistance. New construction jamb depths can be met using a wood extension jamb to meet the 4 9/16" or 6 9/16" wall.

Sash Construction: Insulating glass shall have an overall thickness of 3/4" and a minimum 1/2" air space inside dimension. Standard glass shall be single strength 2.5mm and double strength 3.0 domestic type B float glass. Dura Seal Warm Edge glass spacer will be used to form a continuous hermetic seal around the insulated unit to encapsulate the air space. All glass lites will be installed via CBA and SIGMA standards in accordance with ASTM E773 and E774. Methods to include proper drainage, oval staggered weep system, and setting blocks with appropriate blocking.

Available Finishes: Shall be solid vinyl throughout in white or almond. Optional wood grain interior and custom color are optional.



Belmont Replacement Casements/Awnings

SIZE (united inches)	46-75ui	76-92ui	Minimum price	Feature summary
White	\$4.50ui	\$4.90ui	\$200.00	<ul style="list-style-type: none"> • Lifetime Transferable Warranty • Fully welded frame and sash • Header and Sill expander included • Warm Edge Insulated Glass 3/4 " • Truth Multi-Point Lock • Heavy Duty Detachable Hinges • Corrosion Resistant Hardware • SS/DS Cardinal Glass • Specify Nailing fin with J Channel if required • Over sized windows may require an additional charge for upgraded hardware • Full Aluminum Screen
Sandstone	Add 10%	Add 10%	\$220.00	
Laminated Exterior (Bronze or Black) *White Interior	Call (Pricing)	For Based on	Price Quantity)	
Size Limitations				
	Casement	Awning	MAX	
Minimum	15" x 15"	20" x 15"	108ui	
Maximum	36" x 72"	48" x 36"		

Double/ Triple Price as Sums of Individual Units
HINGING IS DENOTED FROM EXTERIOR

OPTIONS

GLASS

Clear	Standard
Low-E	\$ 12.00 per sash
EnerG Performance	\$ 24.00 per sash
EnerG X5	\$36.00 per sash
Obscure	\$ 14.00 per sash
Obscure Low-E	\$ 26.00 per sash
Obscure EnerG	\$ 38.00 per sash
Tempered Clear	\$ 100.00 per sash
Tempered Low-E	\$ 112.00 per sash
Tempered EnerG	\$ 124.00 per sash
Clear Obscure Tempered	\$ 114.00 per sash
Low-E Obscure Tempered	\$ 126.00 per sash
EnerG Obscure Tempered	\$ 138.00 per sash
Low-E Laminated(.030, .060, .090)	Call For Pricing

GRIDS

Contoured	\$ 26.00 per sash
Flat	\$ 26.00 per sash
SDL Exterior Surface 1	\$ 50.00 per sash
SDL Exterior Surface 4	\$ 50.00 per sash
Prairie	\$ 26.00 per sash
Diamond	\$ 80.00 per sash
Custom 2 Toned	\$ 75.00 per sash

OTHER

Folding Handle	\$ 20.00 per handle
Foam Wrap	\$ 20.00 per window
Snap on Nailing Fin No J	\$ 28.00 per window
Snap on Nailing Fin With J	\$ 28.00 per window
Mull Charge	\$ 24.00 per mullion

SCREEN

Full Fiberglass	Available
Full Pet	\$ 0.70 per ui

TEST SUMMARY	NFRC	U-Factor	SHGC	CRF
Structural Rating: AAMA/WDMA/CSA 101/IS2/A440-05 R50 – LC 55	Clear	0.43	0.57	44
Air infiltration : @ 1.56 psf	Low-E	0.30	0.27	55
Water Penetration : @ 12.00 psf	EnerG	0.27	0.27	55
Uniform Structural Load : @ 6.0 psf	EnerG x5	0.26	0.20	60
Uniform Load Deflection : @ 4.0 psf				
Deglazing				
Forced Resistance				



STERGIS BELMONT

Vinyl Casement/Awning (Replacement)

Architect's Specifications

Residential and Light Commercial Applications

General: Manufactured by STERGIS Windows and Doors, Attleboro, Massachusetts

Operation: Window sash shall open out from the frame jamb by means of a roto-operator crank assembly. Sash shall pivot at the jamb on two stainless steel hinges located at the main frame head and sill. Multi-point sash locks shall be located at the jamb and shall function to both secure the opening and ensure a tight sash to jamb triple weather stripping compression seals.

Materials: All vinyl extrusions shall be rigid 100% virgin PVC. Main frame profiles shall have a nominal wall thickness of .075" and six tubular hollows for maximum strength, thermal efficiency, and welded corner integrity. Sash profiles shall have a nominal wall thickness of .075" and shall contain four tubular hollows.

Frame Construction: Frame includes a head and sill expander for replacement application's . Overall frame depth shall be 3 1/4". Window main frame corners shall be mitered and fusion welded with a minimum melt off of 5mm for maximum strength and leak resistance. Optional J channel can be factory applied

Sash Construction: Sash frame shall be miter cut and fusion welded with a minimum melt off of 5mm. Glazing will be secured between two co-extruded dual durometer glazing fins and a dual durometer removable snap-glazing bead. Damaged glass shall be replaceable without detaching the sash from the main frame.

Screen Construction: Screen wire shall be 18x16 mesh non-glare charcoal finished aluminum, securely held in place with corrugated vinyl screen spline. Frame shall be of hollow extruded design and shall include an exterior leg which forms a screen to frame overlap in the assembled unit to eliminate any perimeter gap once the screen is installed. Screen shall be secured in place with two spring loaded "L" clips at each screen jamb.

Available Finishes: Color shall be solid vinyl throughout in white or almond

Glazing: Insulating glass shall have an overall thickness of 3/4" and a minimum 1/2" air space inside dimension. Standard glass shall be single strength 2.5mm and double strength 3.0 domestic type B float glass. Dura Seal Warm Edge glass spacer will be used to form a continuous hermetic seal around the insulated unit to encapsulate the air space. All glass lites will be installed via CBA and SIGMA standards in accordance with ASTM E773 and E774. Methods to include proper drainage, oval staggered weep system, and setting blocks with appropriate blocking.

Weather stripping: Weather stripping shall be compression bulb type. One course shall be applied around the full sash perimeter and a second around the main frame perimeter to provide continuous double seal between the main frame and sash.



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Belmont Cellar/Hopper Windows/Vinyl Deadlites

SIZE (united inches)	<55	56-70ui	Minimum Price	Feature summary
White	\$2.80ui	\$3.00ui	\$150	<ul style="list-style-type: none"> • Pivoting Sash for Venting and Cleaning • Sloped Sill • 3 ¼ " Frame Depth • Bottom Hinge Only • Head expander and Sill angle included • Full Aluminum Screen Standard
Sandstone	Add 10%	Add 10%	Add 10%	
Laminated Exterior (Bronze or Black) *White Interior	Call (Pricing)	For Based On	Price Quantity)	

SIZE LIMITATIONS

Minimum	16 ½" x 14"
Maximum Width	36"
Maximum Height	32 ½"

DEADLITE	Price per ui	Feature summary
White	\$2.50	FIXED INSERT ONLY 1 ¼" FRAME
Sandstone	Add 10%	

OPTIONS

GLASS

Clear	Standard
Low-E	\$ 12.00 per sash
EnerG Performance	\$ 24.00 per sash
EnerG X5	\$36.00 per sash
Obscure	\$ 14.00 per sash
Obscure Low-E	\$ 26.00 per sash
Obscure EnerG	\$ 38.00 per sash
Tempered Clear	\$ 100.00 per sash
Tempered Low-E	\$ 112.00 per sash
Tempered EnerG	\$ 124.00 per sash
Clear Obscure Tempered	\$ 114.00 per sash
Low-E Obscure Tempered	\$ 126.00 per sash
EnerG Obscure Tempered	\$ 138.00 per sash
Low-E Laminated (.030, .060, .090)	Call For Pricing

GRIDS

Contoured	\$ 26.00 per sash
Flat	\$ 26.00 per sash
SDL Exterior Surface 1	\$ 50.00 per sash
SDL Interior Surface 4	\$ 50.00 per sash
Prairie	\$ 26.00 per sash
Diamond	\$ 80.00 per sash
Custom 2 Toned	\$ 75.00 per sash

OTHER

Foam Wrap	\$ 20.00 per window
Snap on Nailing Fin No J	\$ 28.00 per window
Snap on Nailing Fin With J	\$ 28.00per window
Mull Charge	\$ 24.00 per mullion

SCREEN

Full Fiberglass	Standard
Full Pet	\$ 0.70 per ui



STERGIS BELMONT Cellar/Hopper Window Architect's Specifications

General: Manufactured by STERGIS Windows and Doors, Attleboro, Massachusetts

Operation: Window shall open in from the frame top by means of a cam handle assembly. Sash shall pivot at the bottom on two stainless steel hinges located at each main frame jamb. The cam handle shall be the locking device located at the top rail sash and shall ensure tight sash to jamb weather stripping compression.

Materials: All vinyl extrusions shall be rigid, 100% virgin uPVC. Main frame profiles shall have a nominal wall thickness of .065" and shall be designed such that there are five tubular hollows for maximum strength, thermal efficiency and welded corner integrity.

Frame Construction: Frame profile shall be designed to either accept a snap-on nail fin or to be fitted with a one-piece head expander and sill angle as job conditions require. Overall frame depth shall be 3 1/4". Window main frame corners shall be mitered and fusion welded with a minimum melt off of 5mm for maximum strength and leak resistance. The main frame jambs shall contain an extruded aluminum reinforcing bar to provide a secure anchor for the hinge screws.

Sash Construction: Frame shall be miter cut and joined with heavy duty glass filled nylon corner keys, mechanically fastened and sealed with a siliconized latex sealant.

Screen Construction: Frame shall be hollow extruded design and the wire shall be 18x16 mesh non-glare charcoal finished aluminum. There will be an overlap on the edge of screen frame. Spring clips shall be installed on both jamb sides to keep screen tight to window frame.

Available Finishes: Shall be solid vinyl throughout in white or almond. Optional wood grain interior and custom color exterior is optional.

Glazing: Insulating glass shall have an overall thickness of 3/4" and a minimum 1/2" air space inside dimension. Standard glass shall be single strength 2.5mm and double strength 3.0 domestic type B float glass. Dura Seal Warm Edge glass spacer will be used to form a continuous hermetic seal around the insulated unit to encapsulate the air space. All glass lites will be installed via CBA and SIGMA standards in accordance with ASTM E773 and E774. Methods to include proper drainage, oval staggered weep system, and setting blocks with appropriate blocking.

Weather stripping: Weather stripping shall be two soft durometer legs applied to the perimeter of the interior face of the sash. The third piece of weather stripping shall be one course of fin type weather seal applied to the perimeter of the sash exterior.

Hardware: Two piece cam turn handle lock with striker. 90 degree rotation of the handle lock unlocks the vent. All exposed surfaces of hardware shall be color matched to the vinyl color selected. Locks shall be securely anchored with self-tapping screws driven through the sash rail and into an extruded aluminum reinforcing bar.



Belmont Replacement Sliding Window

SIZE(united inches)	<80	84-100	>101	Feature summary
White	\$3.20ui	\$3.60ui	\$4.00ui	<ul style="list-style-type: none"> • Lifetime Transferable Warranty • Fully welded frame and sash • Double Full interlock at the meeting rails • Header and sill expander included • Double Locks over 26" heights • ¾ " Warm Edge Insulated Glass Duralite • Dual Tandem axle roller wheels • Removable Sashes for easy cleaning • SS/DS Cardinal Glass • ½ Screen Standard
Sandstone	Add 10%	Add 10%	\$4.00ui	
Laminated Exterior (Bronze or Black) *White Interior	Call (Pricing)	For Based On	Pricing Quantity)	

SIZE LIMITATIONS

	Min Width	Min Height	Max Width	Max Height
2-Lite	30"	15"	80"	60"
3-Lite	46 ½"	15"	120"	60"

OPTIONS

GLASS

Clear	Standard
Low-E	\$ 12.00 per sash
EnerG Performance	\$ 24.00 per sash
EnerG X5	\$36.00 per sash
Obscure	\$ 14.00 per sash
Obscure Low-E	\$ 26.00 per sash
Obscure EnerG	\$ 38.00 per sash
Tempered Clear	\$ 100.00 per sash
Tempered Low-E	\$ 112.00 per sash
Tempered EnerG	\$ 124.00 per sash
Clear Obscure Tempered	\$ 114.00 per sash
Low-E Obscure Tempered	\$ 126.00 per sash
EnerG Obscure Tempered	\$ 138.00 per sash
Low-E Laminated	\$ 100.00 per sash

GRIDS

Contoured	\$ 26.00 per sash
Flat	\$ 26.00 per sash
SDL Exterior Surface 1	\$ 50.00 per sash
SDL Interior Surface 4	\$ 50.00 per sash
Prairie	\$ 26.00 per sash
Diamond	\$ 80.00 per sash
Custom 2 Toned	\$ 75.00 per sash

OTHER

Foam Wrap	\$ 20.00 per window
Snap on Nailing Fin No J	\$ 28.00 per window
Snap on Nailing Fin With J	\$ 28.00 per window
Mull Charge	\$ 24.00 per mullion

SCREEN

½ Screen (aluminum or fiberglass)	Standard
Full Aluminum	\$ 0.25 per ui
Full Fiberglass	\$ 0.25 per ui
Full Pet	\$ 0.70 per ui

TEST SUMMARY

TEST SUMMARY	NFRC	U-Factor	SHGC	CRF
Structural Rating: AAMA/WDMA/CSA 101/IS2/A440-05 R 25 – R50	Clear Glass	0.45	0.59	45
Air infiltration: @ 1.56 psf (25 mph)	Low-E	0.31	0.29	58
Water Penetration: @ 5.25 psf	EnerG	0.28	0.28	62
Uniform Structural Load: @ 5.25 psf	EnerG x5	0.27	0.21	62
Uniform Load Deflection @ 35 psf				
Deglazed				
Forced Entry Resistance				



STERGIS BELMONT Welded Slider Architect's Specifications

General: Manufactured by STERGIS Windows and Doors, Attleboro, Massachusetts

Operation: The sliding window shall be of two track design and have two operating sash. In the closed position, sashes shall interlock to provide a full height weather seal. Cam-type locks shall be used to secure sash. Both sash shall lift out for easy cleaning. Half screen shall be standard and located on the outside channel.

Materials: All vinyl extrusions shall be rigid, 100% virgin PVC. Main frame jambs shall have a nominal wall thickness of .065" and include four tubular hollows. Sash profiles shall have a nominal wall thickness of .065" and contain three tubular hollows. Sash profiles shall have four non-rigid PVC glazing legs in the glazing pocket.

Frame Construction: The frame and the head and sill will be miter cut and fusion welded with a minimum melt off of 5mm. The frame sill shall contain two sash track inserts and a screen track on the exterior. Frame minimum wall thickness shall be .065". Frame depth shall be 3 1/4". Frame profile shall accept either a slide-in nail fin or an adjustable head expander and sill angle as job conditions require.

Sash Construction: Sash frame shall be miter cut and fastened with an injection molded corner key. Each sash shall have an integral pull rail which will be the full height of sash. Lock and keeper shall be applied to vertical center rails. Two ball bearing rollers per sash shall be recessed into bottom rail. Sash interlock shall be slide type providing a tight weather seal. Reinforcing shall be installed at the sash meeting rails. Heights 48 1/4" to 60" shall have reinforcing installed in all sash heights. Two-lite units over 72" wide or greater or three lite units 108 1/4" or greater shall have reinforcing installed in all sash widths.

Available Finishes: Shall be solid vinyl throughout in white or almond.

Screen Construction: Half-screen standard. Frame shall be of hollow extruded design with a .055" wall thickness. Wire cloth shall be 18x16 mesh non-glare charcoal finished aluminum. Corners will be staked with die cast corners.

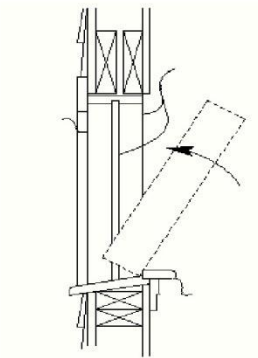
Glazing: Insulating glass shall have an overall thickness of 3/4" and a minimum 1/2" air space inside dimension. Standard glass shall be single strength 2.5mm and double strength 3.0 domestic type B float glass. Dura Seal Warm Edge glass spacer will be used to form a continuous hermetic seal around the insulated unit to encapsulate the air space. All glass lites will be installed via CBA and SIGMA standards in accordance with ASTM E773 and E774. Methods to include proper drainage, oval staggered weep system, and setting blocks with appropriate blocking.

Weather stripping: Shall be full perimeter, double fin-type weather seal on sash. The meeting rail shall be a triple seal interlock, consisting of one piece fin type weather seal on each rail and one bulb type seal the full height of the interlock.

Hardware: Rollers on bottom of sash to be ball bearing in injection molded housings. Sash locks shall be cam-type and finished to match the vinyl extrusion color.

Installation Instructions for Stergis Replacement Windows

******Do not remove the old window until you verify that the dimensions of the new replacement window are correct.**



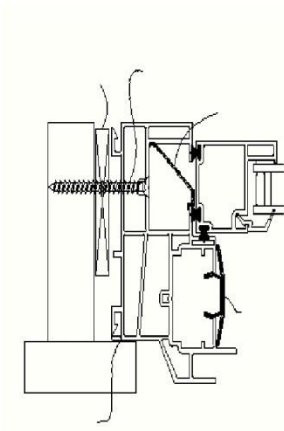
Preparation of Opening:

1. Remove the old sash by removing the interior and/ or parting stops, metal jamb liners, sash counterweights ect. On the sides and top of the opening, be careful not to damage the structure. Do not remove the exterior stop. Remove all sash counterweights if possible and insulate the counter weight pockets with fiberglass batt insulation.
2. Clean and remove any all peeling paint/debris from window opening and exterior stop.
3. Window opening should be level and plumb so that the side jamb material will allow the fastening screws to be installed correctly. (Repair opening if needed.)

******Consider these instructions a guideline for older type windows.**

Install as shown from the inside if the exterior stop of the old window.

Install the New Window:



1. Fit the window into the opening, place the sill of the window over the existing interior sill, tapping the window into the opening. There should be 1/8" to 1/4" between the opening and the new window frame. Remove the window from the opening.
2. Run a bead of silicone caulking on the inside of the exterior stop, on the sides and top of the opening and on the outside of the wood stool of the old window.
3. Place the new window back into the opening making sure it is centered and squared into the opening
4. Install shim as needed between the new windowsill and the old sill. check to see if window is level .
5. Install shims as needed, Making sure that the frame is plumb and square as you install.

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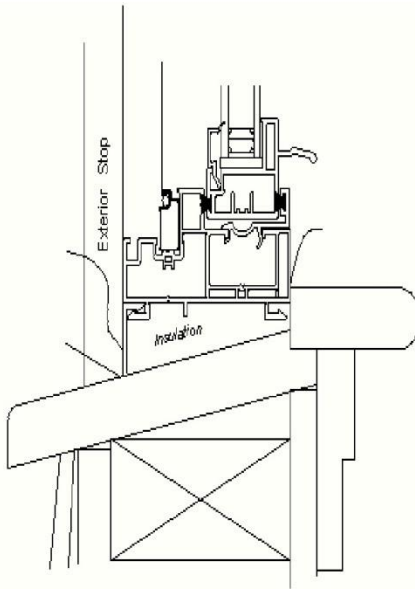
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6. The replacement windows are held in place by stainless steel screws (provided), which fasten the side jambs of the new window to the existing wooden jamb of the old windows frame. (Note: expose the mounting holes by opening the window or raising and lowering the sashes.) When fastening the screws make sure to press the window against the outside stops to ensure a tight fit. Screws must be installed flush to the vinyl jambs without over tightening for proper clearance of the balance mechanism.
7. Install the top and bottom screws on both sides of the window frame. Adjust the Alignment screws at the center of the window jambs for straightness of the jambs using Shims behind the screw pads as needed.
8. Install the center installation screw.
9. Using fiberglass batt insulation fills the cavity between the side jambs and head Of the window and the rough opening being careful not to over stuff this pocket.

Installation of sill Adapter:

Sill adapter enclose the cavity between the bottom of the replacement window and the slop wooden sill of the old window frame. The adapter snaps into the exposed accessory groove at the bottom exterior of the window.



1. Fill the cavity under the replacement window using fiberglass batt insulation.
2. Cut the sill adapter to length. You may prefer to cut it a little long and tuck the ends behind the exterior stops.
3. Measure the height from the wood sill to the groove in the bottom of the replacement window.
4. Mark the sill adapter and score with a utility knife using the grooves provided on the back of the adapter. Snap off the excess material and discard.
5. Now snap the sill adapter into the accessory groove on the window.
6. Neatly run a bead of caulking where the sill adapter meets the wood sill and up two edges at the blind stops. Toll this caulking for a neat appearance.

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The optional two-piece sill adapter installs similarly but the height is adjustable so no trimming is necessary. Snaps the assembly into the accessory groove as above, apply a bead of caulking under the adapter, and pull down the bottom portion of the two-piece adapter so it sets in the caulking on the wood sill of the old window. Tool any exposed caulking for a neat appearance.

An optional head expander is available to help fit the replacement window unit into the rough opening, especially when the opening is out of square. The head expander fits over the top of the window unit and can be adjusted up or down at any angle to fit the opening.

Finish-Up and Adjustment:

Check the operation of the windows and make final adjustment as necessary. Pay close attention that the window jambs are not bowed as this will make operation difficult and diminish performance. Reinstall interior trim at the top and sides of the window frame. Demonstrate the operation of the window to the homeowner including tilt/ wash features.





Windgate New Construction Double Hung

SIZE (united inches)	<83	84-100	>101	Feature summary
White	\$ 240	\$ 260	\$ 3.50ui	<ul style="list-style-type: none"> • Lifetime Transferable Warranty • Full Aluminum or Fiberglass Screen • Fully welded frame and sash • Stainless Steel Coastal Hardware • Double locks over 26" widths • Double weather-stripped sash • ¾ " Warm Edge Insulated Glass Duralite • Tilting sash for easy cleaning • DS/SS Cardinal Glass
Sandstone	Add 10%	Add 10%	Add 10%	
Laminated Exterior (Bronze or Black) *White Interior	Call (Pricing	For Based On	Pricing Quantity)	
SIZE LIMITATIONS				
Minimum Width	16"	Minimum Height	24"	
Maximum Width	46"	Maximum Height	76"	
Recommended Uses: Residential and Light Commercial				

OPTIONS

GLASS

Clear	Standard
Low-E	\$ 12.00 per sash
EnerG Performance	\$ 24.00 per sash
EnerG X5	\$36.00 per sash
Obscure	\$ 14.00 per sash
Obscure Low-E	\$ 26.00 per sash
Obscure EnerG	\$ 38.00 per sash
Tempered Clear	\$ 100.00 per sash
Tempered Low-E	\$ 112.00 per sash
Tempered EnerG	\$ 124.00 per sash
Clear Obscure Tempered	\$ 114.00 per sash
Low-E Obscure Tempered	\$ 126.00 per sash
EnerG Obscure Tempered	\$ 138.00 per sash
Low-E Laminated (.030, .060,.090)	Call for Pricing

SCREENS

Half Screens	Available
Half Pet	\$ 0.70 per ui
Full Pet	\$ 0.70 per ui

OTHER

NE Flat Casing 3 ½ - No Sill	\$ 90.00 per window
NE Flat Casing 3 ½ - With Sill	\$ 100.00 per window
Salem Trim No Sill	\$ 90.00 per window
Salem Trim With Sill	\$ 100.00 per window
4 9/16" Primed Extension Jamb	\$ 40.00 per window
6 9/16" Primed Extension Jamb	\$ 60.00 per window
Custom Size Extension Jamb	Available

GRIDS

Contoured	\$ 26.00 per sash
Flat	\$ 26.00 per sash
SDL Exterior Surface 1	\$ 50.00 per sash
SDL Interior Surface 4	\$ 50.00 per sash
Prairie	\$26.00
Diamond	\$ 80.00 per sash
Custom 2 Toned	\$ 75.00 per sash

Dry Wall Return Adapter (4 Sides)	\$ 15.00 per window
J Channel Filler	\$ 15.00 per window
Mull Charge	\$ 20.00 per mullion
0 Degree Structural Mull ½"	\$ 75.00 per mullion

TEST SUMMARY

	NFRC	U-Factor	SHGC	CRF
Structural Rating: AAMA/WDMA/CSA 101/IS2/A440-05 R35 – R50	Clear	0.45	0.60	45
Air infiltration: @ 1.56 psf (mph)	Low-E	0.31	0.29	57
Water Penetration: @ 6 psf	EnerG	0.28	0.29	61
Uniform Structural Load: @ 40 psf	EnerG x5	0.27	0.21	61
Uniform Load Deflection: @ 60 psf				
Deglazing				
Forced Entry Resistance				



STERGIS WINDGATE

Double Hung (New Construction)

Architect's Specifications

General: Manufactured by STERGIS Windows and Doors, Attleboro, Massachusetts

Operation: Sash shall be counterbalanced to remain as placed during window operation. Both sash shall tilt inwards for cleaning exterior glass surface. The top sash stiles shall be fitted with two security latches which, when extended, shall prevent the bottom sash from being opened more than three inches. Sash locks shall function to secure the opening and, through a cam-action mechanism, draw the interlocking meeting rails together for a tight seal. Window screens shall be of side load design and include provisions for spring loaded latches located at each end of the bottom rail.

Materials: All vinyl extrusions shall be rigid, 100% virgin uPVC. The jambs shall have a nominal wall thickness of .065" and shall include five tubular hollows for maximum strength and thermal efficiency. The sill shall have a nominal wall thickness of .065" and shall contain multiple hollows for strength.. Sash profiles shall have a nominal wall thickness of .065". The interlock meeting rail will be reinforced with tempered aluminum to which the locks are firmly secured. Sash lift rails shall be integral to the sash extrusion. Sash meeting rails shall include an integral leg, which shall provide positive meeting rail interlock in the assembled unit.

Frame Construction: Frame profile shall be designed to install as a new construction with nailing fin and integral J channel. Overall frame depth shall be 3 1/4". Window main frame header will be miter cut and welded with a minimum melt off of 5mm. The sill will be compound cut and welded construction for positive seal and esthetics. Drain weeps under the screen track will provide a quicker drainage of the sloped sill without compromise to performance.

Sash Construction: Sash frame shall be miter cut and fusion welded at the corners. Each welded sash top rail shall conceal a self-aligning spring-loaded sash release latch. Each welded sash shall have recessed, heavy wall pivot bars screwed in place by stainless screws at the bottom sash corners. Glazing shall be secured in place with a dual-durometer snap in a glazing bead along the exterior perimeter of sash. Widths 30 1/4" to 36 1/8" shall have steel reinforcements at the meeting rails. Widths from 36 1/4" to 48" shall have reinforcements at all sash horizontals. Heights from 72" shall have reinforcements at all sash verticals.

Available Finishes: Shall be solid vinyl throughout in white or Almond.

Screen Construction: Full Screen standard. Frame shall be of hollow extruded design with a .055" wall thickness and the wire shall be 18x16 mesh non-glare charcoal finished aluminum. Corners will be staked with die cast corners. The bottom rail shall have a spring loaded release latch on each side to lock the screen in place. The locking device will engage into the master frame wall and not be visible from the exterior.

Glazing: Insulating glass shall have an overall thickness of 3/4" and a minimum 1/2" air space inside dimension. Standard glass shall be single strength 2.5mm and double strength 3.0 domestic type B float glass. Dura Seal Warm Edge glass spacer will be used to form a continuous hermetic seal around the insulated unit to encapsulate the air space. All glass lites will be installed via CBA and SIGMA standards in accordance with ASTM E773 and E774. Methods to include proper drainage, oval staggered weep system, and setting blocks with appropriate blocking.

Weather stripping: A minimum of two courses of solid barrier fin-type weather stripping shall be applied at the crack perimeter (excluding sill) of the window. The bottom sash rail shall fit the sill so that two fin and one closed-cell bulb weather seals engage completely. The interlock will consist of two weather seals attached to the full interlock from jamb to jamb

Hardware: Sash balances shall be factory calibrated block and tackle balances. Balance cords shall be anchored to the head of the jamb by use of a stainless steel clip. The slide shoe (balance shoe) will be attached directly to the balance assembly and ride with the sash in a vertical movement. The sash pivot bar will engage the balance shoe and lock the sash with in a consistent hold to the jamb allowing for no distorting during handling and installation. Sash locks shall be cam type and finished to match the vinyl extrusion color. Locks shall be securely anchored with color matched, self-tapping screws driven through the sash rail and into an extruded aluminum-reinforcing bar. Double locks on opening widths 30 1/4" or greater.

Weather stripping: A minimum of two courses of solid barrier fin-type weather stripping shall be applied at the crack perimeter (excluding sill) of the window. The bottom sash rail shall fit the sill so that two fin and one closed-cell bulb weather seals engage completely. The interlock will consist of two weather seals attached to the full interlock from jamb to jamb

Hardware: Sash balances shall be factory calibrated block and tackle balances. Balance cords shall be anchored to the head of the jamb by use of a stainless steel clip. The slide shoe (balance shoe) will be attached directly to the balance assembly and ride with the sash in a vertical movement. The sash pivot bar will engage the balance shoe and lock the sash with in a consistent hold to the jamb allowing for no distorting during handling and installation. Sash locks shall be cam type and finished to match the vinyl extrusion color. Locks shall be securely anchored with color matched, self-tapping screws driven through the sash rail and into an extruded aluminum-reinforcing bar. Double locks on opening widths 30 1/4" or greater.



Windgate New Construction Single Hung

SIZE (united inches)	<83	84-100	>101	Feature summary
White	\$ 230	\$ 250	\$ 3.50ui	<ul style="list-style-type: none"> • Lifetime Transferable Warranty • Aluminum Half Screen • Fully welded frame and sash • Stainless Steel Coastal Hardware • Double locks over 26" widths • Double weather-stripped sash • ¾" Warm Edge Insulated Glass Duralite • Tilting sash for easy cleaning • DS/SS Cardinal Glass
Sandstone	Add 10%	Add 10%	Add 10%	
Laminated Exterior (Bronze or Black) *White Interior	Call (Pricing)	For Based On	Pricing Quantity)	
SIZE LIMITATIONS				
Minimum Width	16"	Minimum Height	24"	
Maximum Width	46"	Maximum Height	76"	
Recommended Uses: Residential and Light Commercial				

OPTIONS

GLASS

Clear	Standard
Low-E	\$ 12.00 per sash
EnerG Performance	\$ 24.00 per sash
EnerG X5	\$ 36.00 per sash
Obscure	\$ 14.00 per sash
Obscure Low-E	\$ 26.00 per sash
Obscure EnerG	\$ 38.00 per sash
Tempered Clear	\$ 100.00 per sash
Tempered Low-E	\$ 112.00 per sash
Tempered EnerG	\$ 124.00 per sash
Clear Obscure Tempered	\$ 114.00 per sash
Low-E Obscure Tempered	\$ 126.00 per sash
EnerG Obscure Tempered	\$ 138.00 per sash
Low-E Laminated (.030, .060,.090)	Call for Pricing

GRIDS

Contoured	\$ 26.00 per sash
Flat	\$ 26.00 per sash
SDL Exterior Surface 1	\$ 50.00 per sash
SDL Interior Surface 4	\$ 50.00 per sash
Prairie	\$ 26.00 per sash
Diamond	\$ 80.00 per sash
Custom 2 Toned	\$ 75.00 per sash

SCREENS

Half Fiberglass	Available
Half Pet	\$ 0.70 per ui

OTHER

NE Flat Casing 3 ½ - No Sill	\$ 90.00 per window
NE Flat Casing 3 ½ - With Sill	\$ 100.00 per window
Salem Trim No Sill	\$ 90.00 per window
Salem Trim With Sill	\$ 100.00 per window
4 9/16" Primed Extension Jamb	\$ 40.00 per window
6 9/16" Primed Extension Jamb	\$ 60.00 per window
Custom Size Extension Jamb	Available
Dry Wall Return Adapter (4 Sides)	\$ 15.00 per window
J Channel Filler	\$ 15.00 per window
Mull Charge	\$ 20.00 per mullion
0 Degree Structural Mull ½"	\$ 75.00 per mullion

TEST SUMMARY

	NFRC	U-Factor	SHGC	CRF
Structural Rating: AAMA/WDMA/CSA 101/IS2/A440-05 R35 – R50	Clear	0.45	0.61	45
Air infiltration: @ 1.56 psf (mph) 0.14 cfm /ft2	Low-E	0.31	0.30	57
Water Penetration: @ 6 psf No Entry	EnerG	0.28	0.29	61
Uniform Structural Load: @ 40 psf No Damage	EnerG x5	0.27	0.22	62
Uniform Load Deflection: @ 60 psf No Damage				
Deglazing Pass				
Forced Entry Resistance Pass L				



STERGIS WINDGATE

Single Hung (New Construction)

Architect's Specifications

General: Manufactured by STERGIS Windows and Doors, Attleboro, Massachusetts

Operation: Sash shall be counterbalanced to remain as placed during window operation. Bottom sash shall tilt inwards for cleaning exterior glass surface. The top sash stiles shall be fitted with two security latches which, when extended, shall prevent the bottom sash from being opened more than three inches. Sash locks shall function to secure the opening and, through a cam-action mechanism, draw the interlocking meeting rails together for a tight seal. Window screens shall be of side load design and include provisions for spring loaded latches located at each end of the bottom rail.

Materials: All vinyl extrusions shall be rigid, 100% virgin uPVC. The jambs shall have a nominal wall thickness of .065" and shall include five tubular hollows for maximum strength and thermal efficiency. The sill shall have a nominal wall thickness of .065" and shall contain multiple hollows for strength.. Sash profiles shall have a nominal wall thickness of .065". The interlock meeting rail will be reinforced with tempered aluminum to which the locks are firmly secured. Sash lift rails shall be integral to the sash extrusion. Sash meeting rails shall include an integral leg, which shall provide positive meeting rail interlock in the assembled unit.

Frame Construction: Frame profile shall be designed to install as a new construction with nailing fin and integral J channel . Overall frame depth shall be 3 1/4". Window main frame header will be miter cut and welded with a minimum melt off of 5mm. The sill will be compound cut and welded construction for positive seal and esthetics. Drain weeps under the screen track will provide a quicker drainage of the sloped sill without compromise to performance.

Sash Construction: Sash frame shall be miter cut and fusion welded at the corners. The bottom welded sash top rail shall conceal a self-aligning spring-loaded sash release latch. Each welded sash shall have recessed, heavy wall pivot bars screwed in place by stainless screws at the bottom sash corners. Glazing shall be secured in place with a dual-durometer snap in a glazing bead along the exterior perimeter of sash. Widths 30 1/4" to 36 1/8" shall have steel reinforcements at the meeting rails. Widths from 36 1/4" to 48" shall have reinforcements at all sash horizontals. Heights from 72" shall have reinforcements at all sash verticals.

Available Finishes: Shall be solid vinyl throughout in white or Almond.

Screen Construction: Full Screen standard. Frame shall be of hollow extruded design with a .055" wall thickness and the wire shall be 18x16 mesh non-glare charcoal finished aluminum. Corners will be staked with die cast corners. The bottom rail shall have a spring loaded release latch on each side to lock the screen in place. The locking device will engage into the master frame wall and not be visible from the exterior.

Glazing: Insulating glass shall have an overall thickness of 3/4" and a minimum 1/2" air space inside dimension. Standard glass shall be single strength 2.5mm and double strength 3.0 domestic type B float glass. Dura Seal Warm Edge glass spacer will be used to form a continuous hermetic seal around the insulated unit to encapsulate the air space. All glass lites will be installed via CBA and SIGMA standards in accordance with ASTM E773 and E774. Methods to include proper drainage, oval staggered weep system, and setting blocks with appropriate blocking.

Weather stripping: A minimum of two courses of solid barrier fin-type weather stripping shall be applied at the crack perimeter (excluding sill) of the window. The bottom sash rail shall fit the sill so that two fin and one closed-cell bulb weather seals engage completely. The interlock will consist of two weather seals attached to the full interlock from jamb to jamb

Hardware: Sash balances shall be factory calibrated block and tackle balances. Balance cords shall be anchored to the head of the jamb by use of a stainless steel clip. The slide shoe (balance shoe) will be attached directly to the balance assembly and rid with the sash in a vertical movement. The sash pivot bar will engage the balance shoe and lock the sash with in a consistent hold to the jamb allowing for no distorting during handling and installation. Sash locks shall be cam type and finished to match the vinyl extrusion color. Locks shall be securely anchored with color matched, self-tapping screws driven through the sash rail and into an extruded aluminum-reinforcing bar. Double locks on opening widths 30 1/4" or greater.



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Windgate New Construction Picture/Transom Window

SIZE (united inches)	<55ui	56-150ui	Feature summary
White	\$2.80ui	\$3.60ui	<ul style="list-style-type: none"> • Welded Frames with Internal Glazing • Warm Edge Insulated Glass • 3 ¼" Frame • Accessory Grooves Inside & Outside • Beveled exterior / Contoured Interior • SS/DS Cardinal Glass • Head and Sill Angle Included
Sandstone	Add 10%	Add 10%	
Laminated Exterior (Bronze or Black) *White Interior	Call For Quote (Pricing Based	On Quantity)	
SIZE LIMITATIONS			
Minimum Size 14" x 14"		Maximum ui:	
Maximum Size 64" x 84"		148	

OPTIONS

GLASS

Clear	Standard
Low-E	\$ 12.00 per sash
EnerG Performance	\$ 24.00 per sash
EnerG X5	\$ 36.00 per sash
Obscure	\$ 14.00 per sash
Obscure Low-E	\$ 26.00 per sash
Obscure EnerG	\$ 38.00 per sash
Tempered Clear	\$ 100.00 per sash
Tempered Low-E	\$ 112.00 per sash
Tempered EnerG	\$ 124.00 per sash
Clear Obscure Tempered	\$ 114.00 per sash
Low-E Obscure Tempered	\$ 126.00 per sash
EnerG Obscure Tempered	\$ 138.00 per sash
Low-E Laminated (.030, .060,.090)	Call for Pricing

OTHER

NE Flat Casing 3 ½ - No Sill	\$ 90.00 per window
NE Flat Casing 3 ½ - With Sill	\$ 100.00 per window
Salem Trim No Sill	\$ 90.00 per window
Salem Trim With Sill	\$ 100.00 per window
4 9/16" Primed Extension Jamb	\$ 40.00 per window
6 9/16" Primed Extension Jamb	\$ 60.00 per window
Custom Size Extension Jamb	Available
Dry Wall Return Adapter (4 Sides)	\$ 15.00 per window
Foam Wrap	\$ 20.00 per window
J Channel Filler	\$ 15.00 per window
Mull Charge	\$ 20.00 per mullion
0 Degree Structural Mull ½"	\$ 75.00 per mullion

GRIDS

Contoured	\$ 52.00 per sash
Flat	\$ 52.00 per sash
SDL Exterior Surface 1	\$ 100.00 per sash
SDL Interior Surface 4	\$ 100.00 per sash
Prairie	\$ 52.00 per sash
Diamond	\$ 160.00 per sash
Custom 2 Toned	\$ 150.00 per sash

TEST SUMMARY

TEST SUMMARY	NFRC	U-Factor	SHGC	CRF
Structural Rating: AAMA/WDMA/CSA 101/IS2/A440-05 C50 – C80	Clear	0.44	0.64	44
Air Infiltration: @ 1.56 psf (25 mph) .02 cfm/ ft ²	Low-E	0.29	0.31	57
Water Penetration: @ 15 psf No Entry	EnerG	0.25	0.31	61
Uniform Structural Load @ 75 psf/interior No Damage	EnerG x5	0.25	0.23	57



STERGIS WINDGATE

Picture Window/Transom (New Construction) Architect's Specifications

General: Manufactured by STERGIS Windows and Doors, Attleboro, Massachusetts

Operating: Sash shall be a fixed unit set in a frame. Sash is re-glazable by removing the snap-in glazing bead from the inside.

Materials: All vinyl extrusions shall be rigid 100% virgin uPVC. Main frame profile shall have a nominal wall thickness of .075" and shall have four tubular hollows. On oversized windows, frames shall be reinforced with aluminum.

Frame Construction: Frame profile shall be designed to install as a new construction unit with nailing fin and J channel or be fitted with a one piece head expander and sill angle for replacement installation. Overall frame depth shall be 3 1/4". Main frame corners shall be mitered and fusion welded with a minimum melt off of 5mm for maximum strength and leak resistance. New construction jamb depths can be met using a wood extension jamb to meet the 4 9/16" or 6 9/16" wall.

Glazing: Insulating glass shall have an overall thickness of 3/4" and a minimum 1/2" air space inside dimension. Standard glass shall be single strength 2.5mm and double strength 3.0 domestic type B float glass. Dura Seal Warm Edge glass spacer will be used to form a continuous hermetic seal around the insulated unit to encapsulate the air space. All glass lites will be installed via CBA and SIGMA standards in accordance with ASTM E773 and E774. Methods to include proper drainage, oval staggered weep system, and setting blocks with appropriate blocking.

Available Finishes: Shall be solid vinyl throughout in white or almond. Optional wood grain interior and custom color exterior is optional.



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Windgate New Construction Casements/Awnings

SIZE (united inches)	46-75ui	76-92ui	Minimum price	Feature summary
White	\$4.50ui	\$4.90ui	\$200.00	<ul style="list-style-type: none"> • Lifetime Transferable Warranty • Fully welded frame and sash • Header and Sill expander included • Warm Edge Insulated Glass ¾ " • Truth Multi-Point Lock • Heavy Duty Detachable Hinges • Corrosion Resistant Hardware • SS/DS Cardinal Glass • Specify Nailing fin with J Channel if required • Over sized windows may require an additional charge for upgraded hardware • Full Aluminum Screen
Sandstone	Add 10%	Add 10%	\$220.00	
Laminated Exterior (Bronze or Black) *White Interior	Call (Pricing)	For Based on	Price Quantity)	
Size Limitations	Casement	Awning	MAX	
Minimum	15" x 15"	20" x 15"	108ui	
Maximum	36" x 72"	48" x 36"		

Double/ Triple Price as Sums of Individual Units
HINGING IS DENOTED FROM EXTERIOR

OPTIONS

GLASS

Clear	Standard
Low-E	\$ 12.00 per sash
EnerG Performance	\$ 24.00 per sash
EnerG X5	\$ 36.00 per sash
Obscure	\$ 14.00 per sash
Obscure Low-E	\$ 26.00 per sash
Obscure EnerG	\$ 38.00 per sash
Tempered Clear	\$ 100.00 per sash
Tempered Low-E	\$ 112.00 per sash
Tempered EnerG	\$ 124.00 per sash
Clear Obscure Tempered	\$ 114.00 per sash
Low-E Obscure Tempered	\$ 126.00 per sash
EnerG Obscure Tempered	\$ 138.00 per sash
Low-E Laminated (.030, .060,.090)	Call for Pricing

GRIDS

Contoured	\$ 26.00 per sash
Flat	\$ 26.00 per sash
SDL Exterior Surface 1	\$ 50.00 per sash
SDL Interior Surface 4	\$ 50.00 per sash
Prairie	\$ 26.00 per sash
Diamond	\$ 80.00 per sash
Custom 2 Toned	\$ 75.00 per sash

SCREENS

Full Fiberglass	Available
Full Pet	\$ 0.70 per ui

OTHER

NE Flat Casing 3 ½ - No Sill	\$ 90.00 per window
NE Flat Casing 3 ½ - With Sill	\$ 100.00 per window
Salem Trim No Sill	\$ 90.00 per window
Salem Trim With Sill	\$ 100.00 per window
4 9/16" Primed Extension Jamb	\$ 40.00 per window
6 9/16" Primed Extension Jamb	\$ 60.00 per window
Custom Size Extension Jamb	Available
Dry Wall Return Adapter (4 Sides)	\$ 15.00 per window
J Channel Filler	\$ 15.00 per window
Mull Charge	\$ 20.00 per mullion
0 Degree Structural Mull ½"	\$ 75.00 per mullion
Folding Handle	\$ 20.00 per handle

TEST SUMMARY

TEST SUMMARY	NFRC	U-Factor	SHGC	CRF
Structural Rating: AAMA/WDMA/CSA 101/IS2/A440-05 R 50 - LC-55 Air infiltration : @ 1.56 psf	Clear	0.43	0.57	44
Water Penetration : @ 12.00 psf	Low-E	0.30	0.27	55
Uniform Structural Load : @ 6.0 psf Uniform Load Deflection : @ 4.0 psf	EnerG	0.27	0.27	55
Deglazing Forced Resistance	EnerG x5	0.26	0.20	60



STERGIS WINDGATE

Vinyl Casement/Awning (New Construction)

Architect's Specifications

Residential and Light Commercial Applications

General: Manufactured by STERGIS Windows and Doors, Attleboro, Massachusetts

Operation: Window sash shall open out from the frame jamb by means of a truth-operator crank assembly. Sash shall pivot at the jamb on two stainless steel hinges located at the main frame head and sill. Multi-point sash locks shall be located at the jamb and shall function to both secure the opening and ensure a tight sash to jamb triple weather stripping compression seals.

Materials: All vinyl extrusions shall be rigid 100% virgin PVC. Main frame profiles shall have a nominal wall thickness of .075" and six tubular hollows for maximum strength, thermal efficiency, and welded corner integrity. Sash profiles shall have a nominal wall thickness of .075" and shall contain four tubular hollows.

Frame Construction: Frame provides a new construction fin. Overall frame depth shall be 3 1/4". Window main frame corners shall be mitered and fusion welded with a minimum melt off of 5mm for maximum strength and leak resistance. Optional J channel can be factory applied

Sash Construction: Sash frame shall be miter cut and fusion welded with a minimum melt off of 5mm. Glazing will be secured between two co-extruded dual durometer glazing fins and a dual durometer removable snap-glazing bead. Damaged glass shall be replaceable without detaching the sash from the main frame.

Screen Construction: Screen wire shall be 18x16 mesh non-glare charcoal finished aluminum, securely held in place with corrugated vinyl screen spline. Frame shall be of hollow extruded design and shall include an exterior leg which forms a screen to frame overlap in the assembled unit to eliminate any perimeter gap once the screen is installed. Screen shall be secured in place with two spring loaded "L" clips at each screen jamb.

Available Finishes: Color shall be solid vinyl throughout in white or almond

Glazing: Insulating glass shall have an overall thickness of 3/4" and a minimum 1/2" air space inside dimension. Standard glass shall be single strength 2.5mm and double strength 3.0 domestic type B float glass. Dura Seal Warm Edge glass spacer will be used to form a continuous hermetic seal around the insulated unit to encapsulate the air space. All glass lites will be installed via CBA and SIGMA standards in accordance with ASTM E773 and E774. Methods to include proper drainage, oval staggered weep system, and setting blocks with appropriate blocking.

Weather stripping: Weather stripping shall be compression bulb type. One course shall be applied around the full sash perimeter and a second around the main frame perimeter to provide continuous double seal between the main frame and sash.



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Windgate New Construction Sliding Window

SIZE(untied inches)	<80	81-100	>101	Feature summary
White	\$3.20ui	\$3.60ui	\$4.00ui	<ul style="list-style-type: none"> • Lifetime Transferable Warranty • Fully welded frame and sash • Double Full interlock at the meeting rails • Header and sill expander included • Double Locks over 26" heights • ¾ " Warm Edge Insulated Glass Duralite • Dual Tandem axle roller wheels • Removable Sashes for easy cleaning • SS/DS Cardinal Glass • ½ Screen Standard
Sandstone	Add 10%	Add 10%	\$4.00ui	
Laminated Exterior (Bronze or Black) *White Interior	Call (Pricing	For Based On	Pricing Quantity)	

SIZE LIMITATIONS

	Minimum Width	Minimum Height	Maximum Width	Maximum Height
2-Lite	30"	15"	80"	60"
3-Lite	46 ½"	15"	120"	60"

OPTIONS

GLASS

Clear	Standard
Low-E	\$ 12.00 per sash
EnerG Performance	\$ 24.00 per sash
EnerG X5	\$ 36.00 per sash
Obscure	\$ 14.00 per sash
Obscure Low-E	\$ 26.00 per sash
Obscure EnerG	\$ 38.00 per sash
Tempered Clear	\$ 100.00 per sash
Tempered Low-E	\$ 112.00 per sash
Tempered EnerG	\$ 124.00 per sash
Clear Obscure Tempered	\$ 114.00 per sash
Low-E Obscure Tempered	\$ 126.00 per sash
EnerG Obscure Tempered	\$ 138.00 per sash
Low-E Laminated (.030, .060,.090)	Call for Pricing

GRIDS

Contoured	\$ 26.00 per sash
Flat	\$ 26.00 per sash
SDL Exterior Surface 1	\$ 50.00 per sash
SDL Interior Surface 4	\$ 50.00 per sash
Prairie	\$ 26.00 per sash
Diamond	\$ 80.00 per sash
Custom 2 Toned	\$ 75.00 per sash

SCREENS

Half Pet	\$ 0.70 per ui
Full Pet	\$ 0.70 per ui
Full Aluminum or Fiberglass	\$ 15.00

OTHER

NE Flat Casing 3 ½ - No Sill	\$ 90.00 per window
NE Flat Casing 3 ½ - With Sill	\$ 100.00 per window
Salem Trim No Sill	\$ 90.00 per window
Salem Trim With Sill	\$ 100.00 per window
4 9/16" Primed Extension Jamb	\$ 40.00 per window
6 9/16" Primed Extension Jamb	\$ 60.00 per window
Custom Size Extension Jamb	Available
Dry Wall Return Adapter (4 Sides)	\$ 15.00 per window
Foam Wrap	\$ 20.00 per window
J Channel Filler	\$ 15.00 per window
Mull Charge	\$ 20.00 per mullion
0 Degree Structural Mull ½"	\$ 75.00 per mullion

TEST SUMMARY

	NFRC	U-Factor	SHGC	CRF
Structural Rating: AAMA/WDMA/CSA 101/IS2/A440-05 R 25 – R 50	Clear Glass	0.45	0.59	45
Air infiltration: @ 1.56 psf (25 mph) 0.13 fm / t2	Low-E	0.31	0.29	58
Water Penetration: @ 5.25 psf No Entry	EnerG	0.28	0.28	62
Uniform Structural Load: @ 5.25 psf No Damage	EnerG x5	0.27	0.21	62
Uniform Load Deflection @ 35 psf No Damage				
Deglazed Pass				
Forced Entry Resistance Pass				



STERGIS WINDGATE

Welded Slider (New Construction)

Architect's Specifications

General: Manufactured by STERGIS Windows and Doors, Attleboro, Massachusetts

Operation: The sliding window shall be of two track design and have two operating sash. In the closed position, sashes shall interlock to provide a full height weather seal. Cam-type locks shall be used to secure sash. Both sash shall lift out for easy cleaning. Half screen shall be standard and located on the outside channel.

Materials: All vinyl extrusions shall be rigid, 100% virgin PVC. Main frame jambs shall have a nominal wall thickness of .065" and include four tubular hollows. Sash profiles shall have a nominal wall thickness of .065" and contain three tubular hollows. Sash profiles shall have four non-rigid PVC glazing legs in the glazing pocket.

Frame Construction: The frame is fabricated with a Nailing fin and integral J channel for new construction. The frame and the head and sill will be miter cut and fusion welded with a minimum melt off of 5mm. The frame sill shall contain two sash track inserts and a screen track on the exterior. Frame minimum wall thickness shall be .065". Frame depth shall be 3 1/4". An extension jamb will be used to fill the wall depth for 4 9/16" or 6 9/16" .

Sash Construction: Sash frame shall be miter cut and fastened with an injection molded corner key. Each sash shall have an integral pull rail which will be the full height of sash. Lock and keeper shall be applied to vertical center rails. Two ball bearing rollers per sash shall be recessed into bottom rail. Sash interlock shall be slide type providing a tight weather seal. Reinforcing shall be installed at the sash meeting rails. Heights 48 1/4" to 60" shall have reinforcing installed in all sash heights. Two-lite units over 72 " wide or greater or three lite units 108 1/4" or greater shall have reinforcing installed in all sash widths.

Available Finishes: Shall be solid vinyl throughout in white or almond.

Screen Construction: Full-screen standard. Frame shall be of hollow extruded design with a .055" wall thickness. Wire cloth shall be 18x16 mesh non-glare charcoal finished aluminum. Corners will be staked with die cast corners.

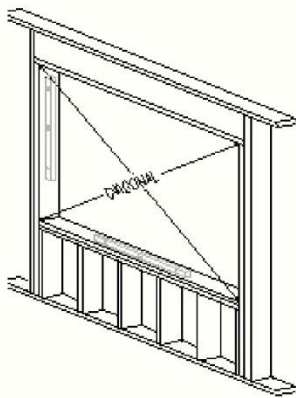
Glazing: Insulating glass shall have an overall thickness of 3/4" and a minimum 1/2" air space inside dimension. Standard glass shall be single strength 2.5mm and double strength 3.0 domestic type B float glass. Dura Seal Warm Edge glass spacer will be used to form a continuous hermetic seal around the insulated unit to encapsulate the air space. All glass lites will be installed via CBA and SIGMA standards in accordance with ASTM E773 and E774. Methods to include proper drainage, oval staggered weep system, and setting blocks with appropriate blocking.

Weather stripping: Shall be full perimeter, double fin-type weather seal on sash. The meeting rail shall be a triple seal interlock, consisting of one piece fin type weather seal on each rail and one bulb type seal the full height of the interlock.

Hardware: Rollers on bottom of sash to be ball bearing in injection molded housings. Sash locks shall be cam-type and finished to match the vinyl extrusion color.

Installation instructions for Stergis New Construction Windows

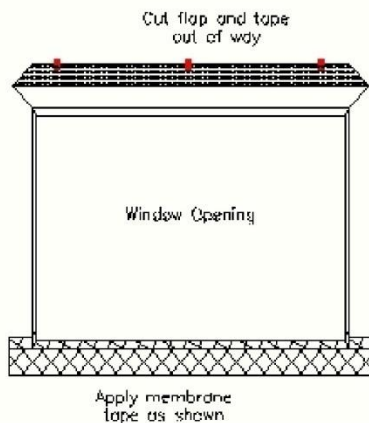
NOTE: These installation instructions require that some type of weather resistant" house wrap" has been installed on the exterior of the sheathing prior to the installation of the windows. Installation directly against the sheathing is not recommended. Additional materials needed to complete the installation are: silicone caulking, 6" wide (minimum) membrane water barrier tape, shimming material, 1-1/2" galvanized or stainless steel screws or nails for installation.



Construction of the Opening:

New construction window openings must be square, plumb & level, using Materials that is free of warps, twist, etc. Check opening for squareness by Measuring the diagonals as shown to left. The opening is square if the measurements are the same. The opening should be 1/2" larger than the tip-to-tip windows frame size to allow for any necessary shimming.

IMPORTANT- Be sure the construction of the opening meets all applicable building codes and standards.



Preparation of the Opening:

1. Cut the house wrap material that cover the windows opening using. Fold the wrap back into the opening, stapling it to the framing and trimming the excess material.
2. Next make diagonal cuts in the house wrap 10-12" long at the two upper corners of the opening to create a flap that will go over the head of the window as shown to the left. Tape flap up and out of the way for now.
3. Apply one strip of membrane tape along the edge of the opening at the sill as shown, extending it 10-12" long past the corners. Apply a second strip overlapping the first one that turns into the opening, covering the sill plate. Run this strip up the side of the opening for several inches as well, notching at the corners. **NOTE-** always be conscious of the sequence of these installation steps. Flashing is always applied from the bottom up, in "weatherboard" fashion.

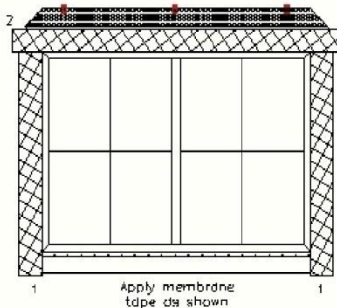
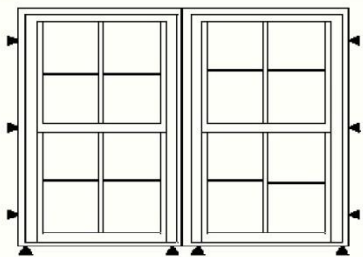
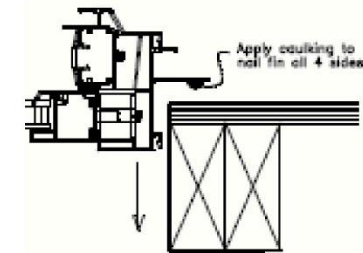
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Installation of Window

4. Apply a generous bead of silicone caulking to all 4 sides of the nail fin in the location shown to the left. (This is typical for all new construction windows)
5. Place the window in the opening and press it firmly against the wall to squeeze the caulking under the fin. Secure to the wall in a temporary fashion to allow for shimming and leveling of the frame.
6. Shim under the window sill as needed to level the unit. In the opening, following the general guidelines shown to the left. Use tapered shims in pairs to create a parallel spacer. **NOTE:** Shimming under the center of the operating window is not recommended as it may cause a bow in the sill and impair the performance of the window.
7. Next shim along the sides of the window to ensure there is no bow or twist in the window jambs. Check the function of the windows throughout this step to maintain the smooth operation of the sashes.
8. Complete the attachment of the window frame to the exterior sheathing of the house using nails or screws in the slotted holes on the nail fin.
9. Apply membrane strips over the nail fins on the window jamb and head as shown to the left. First apply the two strips- marked 1- along the window jambs. This material should extend below the membrane strips at the window sill, and up to the bottom edge of the flap of house wrap material at the head of the window. These strips should be at least 6" wide. Next apply another strip over the nail fin at the head of the window-marked 2. Overlap the jamb pieces by at least 3" on both ends.
- 10 Remove the tape holding up the flap of house wrap material and let it overlap the membrane tape strip over the head of the window. Using the seam tape specified by the house wrap manufacturer, tape over the diagonal cut in the house wrap as shown.
11. Install exterior siding or finish material around the window, utilizing the integral "J" channel on the window frame if appropriate.

Finish-up and Adjustments

- Using fiberglass batt insulation material fill the inside cavity between the sides of the window frame and the rough opening being careful not to overstuff this pocket. **NOTE:** Do not use expanding foams in this area as it may damage or distort the window frame.
- Check the operation of the window and make final adjustments as necessary. Pay close attention that the window jambs are not bowed as this will make operation difficult and diminish performance of the window.

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Stormgate Impact New Construction Double Hung

SIZE (united inches)	<83	84 +	Feature summary
White	\$ 548	Add \$ 6.60 per ui	<ul style="list-style-type: none"> • Lifetime Transferable Warranty • Half Aluminum or Fiberglass Screen Standard • Fully welded frame and sash • Stainless Steel Coastal Hardware • Double locks over 26" widths • Double weather-stripped sash • Large Missile Impact Glass • Tilting sash for easy cleaning
Sandstone	Add 10%	Add 10%	
Laminated Exterior (Bronze or Black)	Call For (Pricing Based	Pricing On Quantity)	
SIZE LIMITATIONS			
Minimum Width	16"	Minimum Height	24"
Maximum Width	46"	Maximum Height	76"
Recommended Uses: Residential and Light Commercial			

OPTIONS

GLASS

Impact Clear	Standard
Impact Low-E	\$ 12.00 per sash
Impact EnerG	\$ 24.00 per sash
Impact EnerG X5	\$ 36.00 per sash
Impact Obscure	call for pricing
Impact Tempered	\$ 65.00 per sash

OTHER

NE Flat Casing 3 ½ - No Sill	\$ 90.00 per window
NE Flat Casing 3 ½ - With Sill	\$ 100.00 per window
Salem Trim No Sill	\$ 90.00 per window
Salem Trim With Sill	\$ 100.00 per window

GRIDS

Contoured	\$ 26.00 per sash
Flat	\$ 26.00 per sash
SDL Exterior Surface 1	\$ 50.00 per sash
SDL Interior Surface 4	\$ 50.00 per sash
Prairie	\$ 26.00 per sash
Diamond	\$ 80.00 per sash
Custom 2 Toned	\$ 75.00 per sash

4 9/16" Primed Extension Jamb	\$ 40.00 per window
6 9/16" Primed Extension Jamb	\$ 60.00 per window
Custom Size Extension Jamb	Available

Dry Wall Return Adapter (4 Sides)	\$ 15.00 per window
Foam Wrap	\$ 20.00 per window
J Channel Filler	\$ 15.00 per window
Mull Charge	\$ 60.00 per mullion
0 Degree Structural Mull ½"	\$ 75.00 per mullion

SCREENS

Half Screens	Standard
Full Aluminum	\$ 15.00 per window
Full Fiberglass	\$ 15.00 per window
Half Pet	\$ 0.70 per ui
Full Pet	\$ 0.70 per ui

TEST SUMMARY

TEST SUMMARY		NFRC	U-Factor	SHGC	CRF
Structural Rating: ASTM E1886/E1966-02	DP50	Clear	0.45	0.60	45
Structural Pressure	75.00 psf				
Air infiltration:	0.10 cfm /ft2	Low-E	0.31	0..29	57
Water Penetration: @ 7.50 psf	No Entry				
Deglazing	Pass	EnerG	0.28	0.29	61
Forced Entry Resistance	Pass L				



STERGIS STORMGATE

Impact Double Hung

Architect's Specifications

General: Manufactured by STERGIS Windows and Doors, Attleboro, Massachusetts

Operation: Sash shall be counterbalanced to remain as placed during window operation. Both sashes shall tilt inwards for cleaning exterior glass surface. The top sash stiles shall be fitted with two security latches which, when extended, shall prevent the bottom sash from being opened more than three inches. Sash locks shall function to secure the opening and, through a cam-action mechanism, draw the interlocking meeting rails together for a tight seal. Window screens shall be of side load design and include provisions for spring-loaded latches located at each end of the bottom rail.

Materials: All vinyl extrusions shall be rigid, 100% virgin uPVC. The jambs shall have a nominal wall thickness of .065" and shall include five tubular hollows for maximum strength and thermal efficiency. The sill shall have a nominal wall thickness of .065" and shall contain multiple hollows for strength.. Sash profiles shall have a nominal wall thickness of .065". The interlock meeting rail will be reinforced with tempered aluminum to which the locks are firmly secured. Sash lift rails shall be integral to the sash extrusion. Sash meeting rails shall include an integral leg, which shall provide positive meeting rail interlock in the assembled unit.

Frame Construction: Frame profile shall be designed to install as a new construction with nailing fin and integral J channel. Overall frame depth shall be 3 1/4". Window mainframe header will be miter cut and welded with a minimum melt off of 5mm. The sill will be compound cut and welded construction for positive seal and esthetics. Drain weeps under the screen track will provide a quicker drainage of the sloped sill without compromise to performance.

Sash Construction: Sash frame shall be miter cut and fusion welded at the corners. Each welded sash top rail shall conceal a self-aligning spring-loaded sash release latch. Each welded sash shall have recessed, heavy wall pivot bars screwed in place by stainless screws at the bottom sash corners. Glazing shall be secured in place with a dual-durometer snap in a glazing bead along the exterior perimeter of sash. Widths 30 1/4" to 36 1/8" shall have steel reinforcements at the meeting rails. Widths from 36 1/4" to 48" shall have reinforcements at all sash horizontals. Heights from 72" shall have reinforcements at all sash verticals.

Available Finishes: Shall be solid vinyl throughout in white or Almond.

Screen Construction: Full Screen standard. Frame shall be of hollow extruded design with a .055" wall thickness and the wire shall be 18x16 mesh non-glare charcoal finished aluminum. Corners will be staked with die cast corners. The bottom rail shall have a spring loaded release latch on each side to lock the screen in place. The locking device will engage into the master frame wall and not be visible from the exterior.

Glazing: 3/4" overall laminated glass consisting of the following: One (1) exterior piece of 1/8" annealed glass / one (1) .285" aluminum reinforced butyl spacer system (as stated by manufacturer) / one (1) interior piece of 1/8" annealed glass./ .090" Solutia laminate / one (1) interior piece of 1/8" annealed glass. Exterior glazed with an adhesive structural sealant Sikaflex-552 (as stated by the manufacturer) (refer to drawing # 142194DH_DP50). The glazing utilized an extruded vinyl snap-in glazing bead measuring .570" wide.

Weather stripping: A minimum of two courses of solid barrier fin-type weather stripping shall be applied at the crack perimeter (excluding sill) of the window. The bottom sash rail shall fit the sill so that two fin and one closed-cell bulb weather seals engage completely. The interlock will consist of two weather seals attached to the full interlock from jamb to jamb

Hardware: Sash balances shall be factory calibrated block and tackle balances. Balance cords shall be anchored to the head of the jamb by use of a stainless steel clip. The slide shoe (balance shoe) will be attached directly to the balance assembly and rid with the sash in a vertical movement. The sash pivot bar will engage the balance shoe and lock the sash with in a consistent hold to the jamb allowing for no distorting during handling and installation. Sash locks shall be cam type and finished to match the vinyl extrusion color. Locks shall be securely anchored with color matched, self-tapping screws driven through the sash rail and into an extruded aluminum-reinforcing bar. Double locks on opening widths of 30 1/4" or greater.

TESTING: ASTM E 1886-02 "Standard Test Method for Performance of Exterior Windows Curtain Walls, Doors and Storm Shutters Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials."

ASTM E 1996-02 "Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Windborne Debris in Hurricanes



Stormgate Impact New Construction Single Hung

SIZE (united inches)	<83	84-100	Feature summary
White	\$ 515	Add \$ 6.20 per ui	<ul style="list-style-type: none"> • Lifetime Transferable Warranty • Aluminum Half Screen • Fully welded frame and sash • Stainless Steel Coastal Hardware • Double locks over 26" widths • Double weather-stripped sash • Large Missile Impact Glass • Tilting sash for easy cleaning
Sandstone	Add 10%	Add 10%	
Laminated Exterior (Bronze or Black)	Call For (Pricing Based	For On Quantity)	
SIZE LIMITATIONS			
Minimum Width	16"	Minimum Height	24"
Maximum Width	46"	Maximum Height	76"
Recommended Uses: Residential and Light Commercial			

OPTIONS

GLASS

Impact Clear	Standard
Impact Low-E	\$ 12.00 per sash
Impact EnerG	\$ 24.00 per sash
Impact EnerG X5	\$ 36.00 per sash
Impact Obscure	call for pricing
Impact Tempered	\$ 65.00 per sash

OTHER

NE Flat Casing 3 ½ - No Sill	\$ 90.00 per window
NE Flat Casing 3 ½ - With Sill	\$ 100.00 per window
Salem Trim No Sill	\$ 90.00 per window
Salem Trim With Sill	\$ 100.00 per window
4 9/16" Primed Extension Jamb	\$ 40.00 per window
6 9/16" Primed Extension Jamb	\$ 60.00 per window
Custom Size Extension Jamb	Available
Dry Wall Return Adapter (4 Sides)	\$ 15.00 per window
Foam Wrap	\$ 20.00 per window
J Channel Filler	\$ 15.00 per window
Mull Charge	\$ 60.00 per mullion
0 Degree Structural Mull ½"	\$ 75.00 per mullion

GRIDS

Flat	\$ 26.00 per sash
SDL Exterior Surface 1	\$ 50.00 per sash
SDL Interior Surface 4	\$ 50.00 per sash
Prairie	\$ 26.00 per sash
Diamond	\$ 80.00 per sash
Custom 2 Toned	\$ 75.00 per sash

SCREENS

Half Fiberglass	Standard
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TEST SUMMARY	NFRC	U-Factor	SHGC	CRF
Structural Rating: ASTM E1886/E1966-02 DP50	Clear	0.45	0.61	45
Structural Pressure 75.00 psf				
Air infiltration:	Low-E	0.31	0.30	55
Water Penetration: @ 7.50 psf	EnerG	0.27	0.31	57
Deglazing	Design pressure ratings			
Forced Entry Resistance	Pass			
	Pass L			



STERGIS STORMGATE

Impact PVC Single Hung

Architect's Specifications

General: Manufactured by STERGIS Windows and Doors, Attleboro, Massachusetts

Operation: Lower sash shall be counterbalanced to remain as placed during window operation. Bottom sash shall tilt inwards for cleaning exterior glass surface. The top sash will be glazed into the main frame and have internal glazing access. Sash locks shall function to secure the opening and, through a cam-action mechanism, draw the interlocking meeting rails together for a tight seal. Window screens shall be of side load design and include provisions for spring loaded latches located at each end of the bottom rail.

Materials: All vinyl extrusions shall be rigid, 100% virgin uPVC. The jambs shall have a nominal wall thickness of .065" and shall include five tubular hollows for maximum strength and thermal efficiency. The sill shall have a nominal wall thickness of .065" and shall contain multiple hollows for strength.. Sash profiles shall have a nominal wall thickness of .065". The interlock meeting rail will be reinforced with tempered aluminum to which the locks are firmly secured. Sash lift rails shall be integral to the sash extrusion. Sash meeting rails shall include an integral leg, which shall provide positive meeting rail interlock in the assembled unit.

Frame Construction: Frame profile shall be designed to install as a new construction with nailing fin and J channel or as a replacement type with head and sill expanders as job conditions require. Overall frame depth shall be 3 1/4". Window main frame header will be miter cut and welded with a minimum melt off of 5mm. The sill will be compound cut and welded construction for positive seal and esthetics. Drain weeps under the screen track will provide a quicker drainage of the sloped sill without compromise to performance.

Sash Construction: Sash frame shall be miter cut and fusion welded at the corners. Each welded sash top rail shall conceal a self-aligning spring-loaded sash release latch. Each welded sash shall have recessed, heavy wall pivot bars screwed in place by stainless screws at the bottom sash corners. Glazing shall be secured in place with a dual-durometer snap in a glazing bead along the exterior perimeter of sash. Widths shall have aluminum reinforcements at the meeting rails. Widths from 36 1/4" to 48" shall have reinforcements at all sash horizontals. Heights from 72" shall have reinforcements at all sash verticals.

Available Finishes: Shall be solid vinyl throughout in white or almond.

Screen Construction: Half-screen standard. Frame shall be of hollow extruded design with a .055" wall thickness and the wire shall be 18x16 mesh non-glare charcoal finished aluminum. Corners will be staked with die cast corners. Screen will remain in the lower sash position and is removed from the interior of the window.

Glazing: 3/4" overall laminated glass consisting of the following: One (1) exterior piece of 1/8" annealed glass / one (1) .285" aluminum reinforced butyl spacer system (as stated by manufacturer) / one (1) interior piece of 1/8" annealed glass./ .090" Solutia laminate / one (1) interior piece of 1/8" annealed glass. Exterior glazed with an adhesive structural sealant Sikaflex-552 (as stated by the manufacturer) (refer to drawing # 142194DH_DP50). The glazing utilized an extruded vinyl snap-in glazing bead measuring .570" wide.

Weather stripping: A minimum of two courses of solid barrier fin-type weather stripping shall be applied at the crack perimeter (excluding sill) of the window. The bottom sash rail shall fit the sill so that two fin and one closed-cell bulb weather seals engage completely. The interlock will consist of two weather seals attached to the full interlock from jamb to jamb

Hardware: Sash balances shall be factory calibrated block and tackle balances. Balance cords shall be anchored to the head of the jamb by use of a stainless steel clip. The slide shoe (balance shoe) will be attached directly to the balance assembly and rid with the sash in a vertical movement. The sash pivot bar will engage the balance shoe and lock the sash with in a consistent hold to the jamb allowing for no distorting during handling and installation. Sash locks shall be cam type and finished to match the vinyl extrusion color. Locks shall be securely anchored with color matched, self-tapping screws driven through the sash rail and into an extruded aluminum-reinforcing bar. Double locks on opening widths 26" or greater.

TESTING: ASTM E 1886-02 "Standard Test Method for Performance of Exterior Windows Curtain Walls, Doors and Storm Shutters Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials."

ASTM E 1996-02 "Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Windborne Debris in Hurricanes



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Stormgate Impact New Construction Picture/Transom Window

SIZE (united inches)	Up To 100 ui	> 101 ui	Feature summary
White	\$ 6.44 per ui	\$ 8.25 per ui	<ul style="list-style-type: none"> • Welded Frames with Internal Glazing • Warm Edge Insulated Glass • 3 ¼" Frame • Accessory Grooves Inside & Outside • Head and Sill Angle Included • Large Missile Impact Glass
Sandstone	Add 10%	Add 10%	
Laminated Exterior (Bronze or Black)	Call For Quote (Pricing Based	On Quantity)	
SIZE LIMITATIONS			
Minimum Size 14" x 14"		Maximum ui:	
Maximum Size 64" x 84"		148	

OPTIONS			
GLASS		OTHER	
Impact Clear	Standard	NE Flat Casing 3 ½ - No Sill	\$ 90.00 per window
Impact Low-E	\$ 12.00 per sash	NE Flat Casing 3 ½ - With Sill	\$ 100.00 per window
Impact EnerG	\$ 24.00 per sash		
Impact EnerG X5	\$ 36.00 per sash	Salem Trim No Sill	\$ 90.00 per window
Impact Obscure	call for pricing	Salem Trim With Sill	\$ 100.00 per window
Impact Tempered	\$ 65.00 per sash		
GRIDS			
Flat	\$ 52.00 per sash	4 9/16" Primed Extension Jamb	\$ 40.00 per window
SDL Exterior Surface 1	\$ 100.00 per sash	6 9/16" Primed Extension Jamb	\$ 60.00 per window
SDL Interior Surface 4	\$ 100.00 per sash	Custom Size Extension Jamb	Available
Prairie	\$ 52.00 per sash		
Diamond	\$ 80.00 per sash	Dry Wall Return Adapter (4 Sides)	\$ 15.00 per window
Custom 2 Toned	\$ 150.00 per sash	Foam Wrap	\$ 20.00 per window
Special Custom Grid	\$ 90.00 per sash	J Channel Filler	\$ 15.00 per window
		Mull Charge	\$ 60.00 per mullion
		0 Degree Structural Mull ½"	\$ 75.00 per mullion

TEST SUMMARY		NFRC	U-Factor	SHGC	CRF
Structural Rating: ASTM E1886/E1966-02	DP80	Clear	0.45	0.64	46
Air Infiltration:	0.01 cfm/ ft ²	Low-E	0.31	0.31	59
Water Penetration: @ 12psf	No Entry	EnerG	0.27	0.31	63
Structural Pressure	120. psf				



STERGIS STORMGATE

Impact PVC Picture/Transom Window

Architect's Specifications

General: Manufactured by STERGIS Windows and Doors, Attleboro, Massachusetts

Operating: Sash shall be a fixed unit set in a frame. Sash is re-glazable by removing the snap-in glazing bead from the inside.

Materials: All vinyl extrusions shall be rigid 100% virgin uPVC. Main frame profile shall have a nominal wall thickness of .078" and shall have four tubular hollows. On oversized windows, frames shall be reinforced with aluminum.

Frame Construction: Frame profile shall be designed to install as a new construction unit with nailing fin and J channel or be fitted with a one piece head expander and sill angle for replacement installation. Overall frame depth shall be 3 1/4". Main frame corners shall be mitered and fusion welded with a minimum melt off of 5mm for maximum strength and leak resistance. New construction jamb depths can be met using a wood extension jamb to meet the 4 9/16" or 6 9/16" wall.

Glazing: 3/4" overall laminated glass consisting of the following: One (1) exterior piece of 1/8" annealed glass / one (1) .285" aluminum reinforced butyl spacer system (as stated by manufacturer) / one (1) interior piece of 1/8" annealed glass. / .090" Solutia laminate / one (1) interior piece of 1/8" annealed glass. Exterior glazed with an adhesive structural sealant Sikaflex-552 (as stated by the manufacturer) (refer to drawing # 142194DH_DP50). The glazing utilized an extruded vinyl snap-in glazing bead measuring .570" wide.

Available Finishes: Shall be solid vinyl throughout in white or almond. Optional wood grain interior and custom color exterior is optional.

TESTING: ASTM E 1886-02 "Standard Test Method for Performance of Exterior Windows Curtain Walls, Doors and Storm Shutters Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials."

ASTM E 1996-02 "Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Windborne Debris in Hurricanes"



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Stormgate Impact New Construction Casements/Awnings

SIZE (united inches)	46-75ui	76-92ui	Minimum price	Feature summary
White	\$ 7.50 per ui	\$ 8.00 per ui	\$ 420.00	<ul style="list-style-type: none"> • Lifetime Transferable Warranty • Fully welded frame and sash • Header and Sill expander included • Large Missile Impact Glass • Truth Multi-Point Lock • Heavy Duty Detachable Hinges • Corrosion Resistant Hardware • Specify Nailing fin with J Channel if required • Over sized windows may require an additional charge for upgraded hardware • Full Aluminum Screen
Sandstone	Add 10%	Add 10%	\$ 462.00	
Laminated Exterior (Bronze or Black)	Call (Pricing)	For Based on	Price Quantity)	
Size Limitations	Casement	Awning	MAX	
Minimum	15" x 15"	20" x 15"	108ui	
Maximum	36" x 72"	48" x 36"		

Double/ Triple Price as Sums of Individual Units
HINGING IS DENOTED FROM EXTERIOR

OPTIONS

GLASS

Impact Clear	Standard
Impact Low-E	\$ 12.00 per sash
Impact EnerG	\$ 24.00 per sash
Impact EnerG X5	\$ 36.00 per sash
Impact Obscure	call for pricing
Impact Tempered	\$ 65.00 per sash

OTHER

NE Flat Casing 3 1/2 - No Sill	\$ 90.00 per window
NE Flat Casing 3 1/2 - With Sill	\$ 100.00 per window
Salem Trim No Sill	\$ 90.00 per window
Salem Trim With Sill	\$ 100.00 per window
4 9/16" Primed Extension Jamb	\$ 40.00 per window
6 9/16" Primed Extension Jamb	\$ 60.00 per window
Custom Size Extension Jamb	Available
Dry Wall Return Adapter (4 Sides)	\$ 15.00 per window
Foam Wrap	\$ 20.00 per window
J Channel Filler	\$ 15.00 per window
Mull Charge	\$ 60.00 per mullion
0 Degree Structural Mull 1/2"	\$ 75.00 per mullion

GRIDS

Flat	\$ 26.00 per sash
SDL Exterior Surface 1	\$ 50.00 per sash
SDL Interior Surface 4	\$ 50.00 per sash
SDL (casement)	\$ 112.00 per sash
Prairie	\$ 26.00 per sash
Diamond	\$ 80.00 per sash
Custom 2 Toned	\$ 75.00 per sash

SCREEN

Full Pet (casement)	\$.070 per ui
Full Pet (awning)	\$ 0.70 per ui

TEST SUMMARY

	NFRC	U-Factor	SHGC	CRF
Structural Rating: ASTM E1886/E1966-02 Structural Pressure	LC-55 75.00 psf	Clear	0.43	44
Air infiltration :	0.04 cfm/ft2	Low-E	0.30	57
Water Penetration : @ 9.75 psf	No Entry	EnerG	0.27	61
Deglazing Forced Resistance	Pass Pass			



STERGIS STORMGATE

Impact Vinyl Casement/Awning Window

Architect's Specifications

Residential and Light Commercial Applications

General: Manufactured by STERGIS Windows and Doors, Attleboro, Massachusetts

Operation: Window sash shall open out from the frame jamb by means of a roto-operator crank assembly. Sash shall pivot at the jamb on two stainless steel hinges located at the main frame head and sill. Multi-point sash locks shall be located at the jamb and shall function to both secure the opening and ensure a tight sash to jamb triple weather stripping compression seals.

Materials: All vinyl extrusions shall be rigid 100% virgin uPVC. Main frame profiles shall have a nominal wall thickness of .075" and six tubular hollows for maximum strength, thermal efficiency, and welded corner integrity. Sash profiles shall have a nominal wall thickness of .075" and shall contain four tubular hollows. Reinforced Main Frames and Retaining clip for hardware will be employed to ensure impact testing certifications

Frame Construction: Frame provides a new construction fin or a head and sill expander for replacement applications . Overall frame depth shall be 3 1/4". Window main frame corners shall be mitered and fusion welded with a minimum melt off of 5mm for maximum strength and leak resistance. Optional J channel can be factory applied.

Sash Construction: Sash frame shall be miter cut and fusion welded with a minimum melt off of 5mm. Glazing will be secured between two co-extruded dual durometer glazing fins and a dual durometer removable snap-glazing bead. Damaged glass shall be replaceable without detaching the sash from the main frame.

Screen Construction: Screen wire shall be 18x16 mesh non-glare charcoal finished aluminum, securely held in place with corrugated vinyl screen spline. Frame shall be of hollow extruded design and shall include an exterior leg which forms a screen to frame overlap in the assembled unit to eliminate any perimeter gap once the screen is installed. Screen shall be secured in place with two spring loaded "L" clips at each screen jamb.

Available Finishes: Color shall be solid vinyl throughout in white or almond

Glazing: 3/4" overall laminated glass consisting of the following: One (1) exterior piece of 1/8" annealed glass / one (1) .285" aluminum reinforced butyl spacer system (as stated by manufacturer) / one (1) interior piece of 1/8" annealed glass./ .090" Solutia laminate / one (1) interior piece of 1/8" annealed glass. Exterior glazed with an adhesive structural sealant Sikaflex-552 (as stated by the manufacturer) (refer to drawing # 142194DH_DP50). The glazing utilized an extruded vinyl snap-in glazing bead measuring .570" wide.

Weather stripping: Weather stripping shall be compression bulb type. One course shall be applied around the full sash perimeter and a second around the main frame perimeter to provide continuous double seal between the main frame and sash.

Hardware: All hardware is corrosion resistant. Maxim twin arm gear drive dyad operator attaches to the sash by use of a guide track and sash pinion. Sash locks shall be sequentially locking multi-point type with a single handle actuator. The sash keepers will self align and be secured into reinforced sash walls. All fasteners are stainless steel . Sash heights will incorporate an alignment and reinforcing snubber that draws the sash tight with the frame. Hardware will be color matched.

TESTING: ASTM E 1886-02 "Standard Test Method for Performance of Exterior Windows Curtain Walls, Doors and Storm Shutters Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials."

ASTM E 1996-02 "Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Windborne Debris in Hurricanes



Stormgate Impact New Construction Sliding Window

SIZE(untied inches)	<80	81-100	>101	Feature summary
White	\$6.40ui	\$7.20ui	\$8.00ui	<ul style="list-style-type: none"> • Lifetime Transferable Warranty • Fully welded frame and sash • Double Full interlock at the meeting rails • Header and sill expander included • Double Locks over 26" heights • ¾ " Warm Edge Insulated Glass Duralite • Dual Tandem axle roller wheels • Removable Sashes for easy cleaning • SS/DS Cardinal Glass • ½ Screen Standard
Sandstone	Add 10%	Add 10%	\$8.00ui	
Laminated Exterior (Bronze or Black)	Call (Pricing	For Based On	Pricing Quantity)	

	SIZE		LIMITATIONS	
	Minimum Width	Minimum Height	Maximum Width	Maximum Height
2-Lite	30"	15"	80"	60"
3-Lite	46 ½"	15"	120"	60"

OPTIONS

GLASS

Impact Clear	Standard
Impact Low-E	\$ 12.00 per sash
Impact EnerG	\$ 24.00 per sash
Impact EnerG X5	\$ 36.00 per sash
Impact Obscure	call for pricing
Impact Tempered	\$ 65.00 per sash

OTHER

NE Flat Casing 3 ½ - No Sill	\$ 90.00 per window
NE Flat Casing 3 ½ - With Sill	\$ 100.00 per window
Salem Trim No Sill	\$ 90.00 per window
Salem Trim With Sill	\$ 100.00 per window

GRIDS

Contoured	\$ 26.00 per sash
Flat	\$ 26.00 per sash
SDL Exterior Surface 1	\$ 50.00 per sash
SDL Interior Surface 4	\$ 50.00 per sash
Prairie	\$ 26.00 per sash
Diamond	\$ 80.00 per sash
Custom 2 Toned	\$ 75.00 per sash

4 9/16" Primed Extension Jamb	\$ 40.00 per window
6 9/16" Primed Extension Jamb	\$ 60.00 per window
Custom Size Extension Jamb	Available

Dry Wall Return Adapter (4 Sides)	\$ 15.00 per window
Foam Wrap	\$ 20.00 per window
J Channel Filler	\$ 15.00 per window
Mull Charge	\$ 60.00 per mullion
0 Degree Structural Mull ½"	\$ 75.00 per mullion

SCREENS

Half Pet	\$ 0.70 per ui
Full Pet	\$ 0.70 per ui
Full Aluminum or Fiberglass	\$ 15.00

TEST SUMMARY		NFRC	U-Factor	SHGC	CRF
Structural Rating: ASTM E1886/E1966-02	DP 50	Clear	0.46	0.61	45
Structural Pressure	75.00psf	Low-E	0.31	0.29	58
Air infiltration: @ 1.56 psf (25 mph)	0.17 fm / t2	EnerG	0.28	0.29	62
Water Penetration: @ 7.50 psf	No Entry				
Deglazed	Pass				
Forced Entry Resistance	Pass				



Aluminum Triple Track Model 60 Storm Windows

	<90 ui	90-100 ui	>100 ui	Feature Summary
White (2603)	\$ 198.00	\$ 209.00	\$ 4.75 ui	<ul style="list-style-type: none"> • Miter cut radius corners w/corner keys • Heavy duty horizontal tie bars • 3 piece sill with adjustable sill expander • Charcoal aluminum screen wire • Baked Enamel Finish (*optional coastal 2605 finish available)
Nantucket Gray (2603)	\$ 210.00	\$ 221.00	\$ 4.75 ui	
Custom Colors (2603)	+\$ 195.00	+\$ 205.00	\$ 4.75 ui	
Coastal Colors (2605)*	+\$ 257.00	+\$ 275.00	\$ 4.75 ui	

OPTIONS		SIZE LIMITATIONS
DSB Low-E Hardcoat	\$ 80.00 per sash	Minimum Width 11" ttt Maximum Width 56" ttt Minimum Height 27" ttt Maximum Height 93.25" ttt
Lexan .125	\$ 75.00 per sash	
Obscure Glass	\$ 65.00 per sash	
Plexiglas .125	\$ 65.00 per sash	
Tempered Glass	\$ 75.00 per sash	
Oriel Window	\$ 15.00 per window	
Without Screen	-\$5.00 per window	

TEST SUMMARY	
Structural Rating: ANSI / AAMA 1002.10-93 VWE – CLASS 10	
Air infiltration: @ 1.56 psf (25mph)	.065 cfm/fcp
Water drainage:	No water test buck sill
Uniform structural load	
@ 15 psf (exterior)	No damage
@ 15 psf (interior)	No damage

CLEAR EGRESS OPENING
(Minimum TTT Unit Measurements to meet 20" x 24" clear opening requirement)
Minimum Size: 27" x 55"

Warranty

Aluminum Storm Products with standard Baked Enamel finishes (2603) have a warranty for 5 years excluding coastal area*. Coastal Finishes (2605) carry a warranty of 3 years when used in coastal areas*. Please see full warranty for complete information. (* see definitions of coastal areas on full warranty)



General: Manufactured by STERGIS Windows and Doors, Attleboro, Massachusetts. Each window shall be complete with two operating sash and one screen insert.

Operation: The STERGIS Model 60 window shall be of triple channel design, constructed to form back retaining walls for both glass inserts when in the closed position. Each glass insert and screen shall ride in its own channel, guided by top pivot pins and shall be removable from inside without use of tools. There shall be a minimum of four locking positions for the lower sash.

Materials: All aluminum extrusions shall be 6063-T5 heat treated aluminum alloy with a nominal wall thickness of .055". Self-tapping screws used in the assembly of the window shall be stainless steel.

Frame Construction: The frame shall be miter-type construction anchored with two stainless self-tapping screws at each corner. Each screw shall be driven into an extruded boss which is an integral part of the jambs. The sill and bottom sash shall interlock in a tongue and groove manner for additional weather protection when in closed position. There shall be an adjustable expander on the sill to compensate for out-of-square installation. The sill expander shall have two weep holes to allow drainage to the outside. The header frame shall provide penetration of the top sash by $\frac{3}{4}$ " and be sealed with fin type weatherstripping on the inside frame leg and heavy duty woolpile on the outside of the sash head. There shall be a 1 $\frac{1}{8}$ " extruded stabilizer bar at the meeting rails, secured by a .125 pop-rivet on each side through the frame and into an extruded boss in the stabilizer bar. The sill shall be of two-piece construction.

Sash Construction: Glass inserts shall have spring loaded zinc die-cast latches with $\frac{5}{8}$ " operating space to allow easy operation. A double interlock will join two sashes together at the meeting rail. Sash corners shall be mitered and joined with securely staked zinc die-cast corner keys.

Screen Construction: Screen frames shall be of hollow extruded design with overlaps at sides of frames. Heavy-duty woolpile shall be inserted in the top of the screen section to provide an effective insect seal when in the summer position. Screen wire shall be 18 x 16 mesh, non-glare charcoal finished aluminum and shall be held in place with corrugated vinyl screen spline.

Available Finishes: All door finishes shall be electrostatically applied baked enamel 2603 in standard white or custom color. Optional Coastal Finishes are available for compliance with warranty.

Glazing: Sash shall be single-strength standard type B domestic float glass fitted with spline into the extruded aluminum sash channels.

Weather stripping: All critical areas shall be fully weatherstripped with a fin type weatherstripping.

Hardware: All spring loaded latches are to be zinc die-cast. Screen latches are to be recessed and bottom exposed for access.

Options: Steep slope drop sill expanders shall be available to permit proper installation where required. Glazing: double strength, acrylic, lexan, obscure, special tempered, and Low-E. Oriels are available.

Residential and Commercial Applications

Minimum Width: 11" ttt

Minimum Height: 27" ttt

Maximum Width: 56" ttt

Maximum Height: 93.25" ttt

Aluminum Stationary Storm Windows

Storm Picture Window

Minimum 70 UI Base	Base price	With Plexiglass (per ui)	Tempered Glass (per ui)	Removable Screens (per ui)	Rolled-in Screen add per ui	Feature Summary
White (2603)	\$ 2.05 ui	\$ 3.45	\$ 4.05	\$ 2.45	\$ 0.50	<ul style="list-style-type: none"> • Removable Glass Sash • Double Thick Glass • Adjustable Sill Expander • Baked Enamel Finish (*optional coastal 2605 finish available)
Nantucket Gray (2603)	\$ 2.15 ui	\$ 3.55	\$ 4.15	\$ 2.55	\$ 0.50	
Custom Color (2603)	\$ 3.95 ui	\$ 5.35	\$ 5.95	\$ 4.75	\$ 0.50	
Coastal Color (2605)*	\$ 4.90 ui	\$ 6.30	\$ 5.90	\$ 5.75	\$ 0.50	

Storm Deadlite (Gus 41 with Lip)

	Base price	With Plexiglass (per ui)	Tempered Glass (per ui)	Custom Shapes (per ui)	Feature Summary
White (2603)	\$ 1.30 ui	\$ 2.70	\$ 3.30	\$ 4.10	<ul style="list-style-type: none"> • All deadlites with tempered over 42" x 72" • Must have a Mullion • Weather Stripped Frame • Extruded Frame • 1/8" Clear Glass • 1 1/8" x3/8" with lip • Baked Enamel Finish (*optional coastal 2605 finish available)
Nantucket Gray (2603)	\$ 1.40 ui	\$ 2.80	\$ 3.40	\$ 4.20	
Custom Color (2603)	\$ 2.50 ui	\$ 3.90	\$ 4.50	\$ 5.30	
Coastal Color (2605)*	\$ 3.00 ui	\$ 4.40	\$ 5.00	\$ 5.80	

"GUS-4" Deadlite (No Lip)

	Base price	With Plexiglass (per ui)	Tempered Glass (per ui)	Feature Summary
White (2603)	\$ 1.30 ui	\$ 2.70	\$ 3.30	<ul style="list-style-type: none"> • Weather Stripped Frame • 3/4" x 3/8" Frame • 1/8" Clear Glass • Baked Enamel Finish * No Mullion Available (*optional coastal 2605 finish available)
Nantucket Gray (2603)	\$ 1.40 ui	\$ 2.80	\$ 3.40	
Custom Color (2603)	\$ 2.50 ui	\$ 3.90	\$ 4.50	
Coastal Color (2605)*	\$ 3.00 ui	\$ 4.40	\$ 5.00	

Warranty

Aluminum Storm Products with standard Baked Enamel finishes (2603) have a warranty for 5 years excluding coastal area*. Coastal Finishes (2605) carry a warranty of 3 years when used in coastal areas*. Please see full warranty for complete information. (* see definitions of coastal areas on full warranty)



STERGIS Storm Picture Window Architect's Specifications

General: Manufactured by STERGIS Windows and Doors, Attleboro, Massachusetts

Operation: The storm window shall have a flush back frame. Sash shall be held in place in the master frame with heavy duty clips. Sash shall be removable from the outside by loosening clips and lifting sash out of frame pocket.

Materials & Frame Construction: All extrusions shall be 6063-T5 heat treated aluminum alloy with a nominal wall thickness of .050". Self tapping screws used in the assembly of this window shall be stainless steel. The corners of the frame shall be miter cut and fastened with two stainless steel screws at each corner. The back of the frame shall be a flush 1 5/8". The front of the frame shall form a pocket in which the glass insert shall sit. The sill flange shall include an adjustable expander to compensate for out of square installations.

Glazing & Sash Construction: The frame of the sash shall be of extruded design. The sash shall be double-strength standard type B domestic float glass fitted with spline into the sash frame. Sash corners shall be mitered and joined with securely staked zinc die-cast corner keys. There shall be a lift incorporated at the bottom edge of the sash frame.

Available Finishes: All door finishes shall be electrostatically applied baked enamel 2603 in standard white or custom color . Optional Coastal Finishes are available for compliance with warranty

Weather stripping: The storm picture window frame shall be fully weather stripped on the inside perimeter with a heavy duty wool pile.

Hardware: The clips which secure the glass insert into the frame shall be heavy duty extruded aluminum. The screw which hold the clips in place shall be tapped into an extruded aluminum rocker clip. A minimum of four clips assemblies shall be provided for each height.

Minimum width: 8 5/8" ttt

Maximum width: 72" x 60" or 60" x 72" ttt

Minimum height: 8 3/8" ttt



www.Stergis.com

79 Walton Street, Attleboro MA

508-455-0661 • FAX 508-455-0622 • 1-888-STERGIS

Storm Sliders Internal/External

	Base price	With Plexiglass (per ui)	Tempered Glass (per ui)	Triple Sliders	Feature summary
Color	<80 ui	81-120 ui	>120 ui	Triple Sliders	<ul style="list-style-type: none"> • External Slider has flange • Hollow Bottom Rail for extra strength • Interlocking Inserts • Baked Enamel Finish (*optional coastal 2605 finish available)
WHITE/BRONZE (2603)	\$163.00	\$2.65 ui	\$3.20 ui	\$3.20 ui	
SCREENS (half or full)	+ \$.60 ui	+ \$.60 ui	+ \$.60 ui	+ \$.60 ui	

Miscellaneous

Plexiglass	Add \$ 40.00/Sash
Tempered Glass	Add \$ 65.00/Sash
Style A Still Expander	\$2.00/Lineal Foot
Style B Sill Expander	\$2.40/Lineal Foot

Opening limitations

<i>Double Slider</i>	<i>Triple Slider</i>
Minimum Width 18" ttt	Minimum Width 27" ttt
Maximum Width 82" ttt	Maximum Width 108" ttt
Minimum Height 12" ttt	Minimum Height 12" ttt
Maximum Height 63" ttt	Maximum Height 63" ttt

Warranty

Aluminum Storm Products with standard Baked Enamel finishes (2603) have a warranty for 5 years excluding coastal area*. Coastal Finishes (2605) carry a warranty of 3 years when used in coastal areas*. Please see full warranty for complete information. (* see definitions of coastal areas on full warranty)



STERGIS Internal/External Storm Slider

Architect's Specifications

Residential and Light Commercial Applications

General: Manufactured by STERGIS Windows and Doors, Attleboro, Massachusetts

Operation: Each sash shall roll freely on nylon pads and shall be easily removed for cleaning or reglazing. There shall be a deep header to allow vertical removal of the prime window sash.

Materials: All aluminum extrusions shall be 6063-T5 heat treated aluminum alloy with a nominal wall thickness of .055". All fasteners shall be stainless steel, and all hardware shall be made of noncorrosive materials compatible with aluminum.

Frame Construction: Master frame shall be butted at the corners and fastened with two stainless steel screws driven through the jambs into the horizontal frame members. Frame sill will be of a hollow extruded and provide for exterior drainage through staggered drain holes. Installation flange shall be 1 1/8" wide to permit secure mounting. This window shall have a flush back frame. Expanders can be used at all flange locations

Sash Construction: Sash shall have butted corners securely fastened with stainless steel screws driven through the vertical rail into an extruded screw boss in the horizontal member. All vertical sash members shall be of hollow tubular design with a minimum depth of 1/2" . Sash shall have an integral mechanical interlock as well as woodpile weather stripping at the meeting rails. Each sash shall lock independently by means of a spring loaded, self-latching handle.

Available Finishes: All door finishes shall be electrostatically applied baked enamel 2603 in standard white or custom color . Optional Coastal Finishes are available for compliance with warranty

Screen Construction: Standard screen shall be a half screen with 18x16 mesh non-glare charcoal finished aluminum wire. Screen frame shall be of hollow extruded design with a minimal wall thickness of .065". Woolpile strip shall be applied to the top rail to provide and effective design. The corners will be staked together firmly with a die cast corner key.

Glazing: Standard glazing shall be single strength domestic type B float glass set in a soft vinyl channel. Double strength glass shall be supplied as standard or larger units.

Weather stripping: Sash shall be double weather stripping using a combination of fin-type weatherseal and heavy duty silicone treated wool pile.

Hardware: The locking mechanism shall be of solid extruded design and shall automatically engage the master frame rails when sash are closed.

2-lite	Minimum width: 18" ttt	Minimum height: 12" ttt
	Maximum width: 82" ttt	Maximum height: 60" ttt
3-lite	Minimum width: 27" ttt	Minimum height: 12" ttt
	Maximum width: 108" ttt	Maximum height: 60" ttt

NOTE: Not to be used as a prime window. Storm product for exterior use only.



Aluminum Storm Doors

Door style	White (2603)	Custom (2603)	Coastal (2605)	Feature summary
CROSSBUCK	\$430	\$816	\$830	<ul style="list-style-type: none"> • Tubular extruded aluminum door frames • 3" wide door styles – smooth face • Heavy duty corner gussets at mitered frame corners • 1 ½" adjustable bottom expander • Four-hinge Z-bar assembly hollow hinge • Charcoal aluminum screen wire • Extrusion wall thickness .060" min • Standard black hardware • Stainless steel fasteners • Heavy duty adjustable closer, hurricane chain, heavy handle set • Standard colors – WHITE (2603)
DOUBLE KICK PLATE	\$430	\$816	\$830	
DUAL PROVINCIAL	\$ 430	\$816	\$830	
FULL LITE (No Kick Plate)	\$ 430	\$816	\$830	
FULL PROVINCIAL	\$ 430	\$816	\$830	
HI-LITE	\$ 430	\$816	\$830	
ONE-LITE (With Kick Plate)	\$ 430	\$816	\$830	
SELF STORING	\$ 520	\$906	\$920	
ALL DOOR SWINGS ARE VIEWED FROM OUTSIDE Note Hinge Location				

Tempered Standard on Stock Sizes With Standard Height

Large quantity breaks available for stock size doors.

Stock Doors Opening Sizes- 30, 32, 34, 36

SIZE LIMITATIONS

Minimum Width	20"	Minimum Height	40"
Maximum Width	46"	Maximum Height	96"
Recommended Uses: Residential and Light Commercial			

Model 100 Volume Discount

The Model 100 is available for volume qty. It is an identical door to the 200 series but with a 2" wide frame .
Contact your salesman or main office for more information and quote requests.

Options

GLASS		OTHER	
Special Tempered	\$ 75.00	Brass Sweep	\$ 24.00
		Pewter Sweep	\$ 24.00
HARDWARE		Oversized Door	+\$ 8.00 per ui over 120ui
Black Pull Hardware (standard)	\$ 36.00	Piano Hinge Expander	Add \$ 30.00 per door
White Pull Hardware	\$ 36.00	Special Meeting Rail Location	\$ 30.00 per door
Brass Pull Handle with key lock	\$ 94.00	Door Without Glass	-\$ 30.00
Pewter Pull Handle with key lock	\$ 94.00	Door Not Pre-Hung	-\$ 10.00
SCREEN	\$ 50.00	Panel 15 Small	\$ 30.00 per panel
Pet	-\$ 10.00	Panel 15 Large	\$ 76.00 per panel
Without		Inswing Handle Set	\$ 30.00
		Inswing Bracket	\$ 10.00
		Black Closer Only	\$ 25.00
		Black Key Lock	\$ 25.00
		White Closer Only	\$ 25.00

Warranty

Aluminum Storm Products with standard Baked Enamel finishes (2603) have a warranty for 5 years excluding coastal area*. Coastal Finishes (2605) carry a warranty of 3 years when used in coastal areas*. Please see full warranty for complete information. (* see definitions of coastal areas on full warranty)



STERGIS Aluminum Storm Doors

Model 200 Momentum

Architect's Specifications

Residential and Light Commercial Applications

General: Manufactured by STERGIS Windows and Doors, Attleboro, Massachusetts

Materials and Frame Construction: Extrusion shall be 6030-T5 heat-treated aluminum alloy. Self-tapping screws shall be used in assembly and installation shall be of stainless steel. The main frame of the door shall be of hollow extrusions with nominal wall thickness of .055" and backwall thickness of .060". The main door frame shall be mitered and joined by the use of heavy duty cast corner gussets extending a minimum of 4" into the door frame extrusion at extrusions top, bottom and sides. The main frame shall be a full 1 1/8" thick and 3 1/8" wide. The door shall be reinforced with cross mullions of hollow box construction with a minimum wall thickness of .055". The mullions shall overlap the inside lip of the frame and be attached to the frame by four stainless steel screws. The kickplate shall be inserted and glued with a silicone based adhesive into a 1/8" deep groove on all four sides. The kickplate shall be a .032" textured or embossed aluminum sheet. The bottom of the door shall be fitted with an expandable outside channel for adjustments to the threshold. The door shall be attached to a Z-Bar frame by means of hollow hinges with brass bushings and steel pins. The Z-Bar shall be weatherstripped with woolpile. The standard Eastern Z-Bar shall accommodate a rabbet depth of 3/4" and shall be adjusted by means of snap-on aluminum adapter for rabbet depths up to 1" (Western). The Z-Bar shall have pre-punched installation holes.

Sash Construction: Standard glazing shall be 1/8" tempered glass. All inserts shall be marine glazed and fit into an extruded aluminum frame. Corners shall be mitered and secured in place by the use of a stamped cast corner key.

Screen Construction: Screen frame shall be hollow box construction. Screen frame shall be mitered and staked construction using stamped aluminum corners. Screen wire shall be 18 x 16 mesh non-glare charcoal finished aluminum, held in place by corrugated vinyl spline. All inserts shall be retained in the door by the use of aluminum clips and thumb screws set in aluminum rivnuts.

Glazing: Standard glazing shall be 1/8" tempered glass. Doors outside our normal size limitations shall be glazed with .100 acrylic.

Available Finishes: All door finishes shall be electrostatically applied baked enamel 2603 in white. Optional Coastal Finishes are available for compliance with warranty

Weather stripping: Weatherstripping on Z-Bar lengths shall be silicone treated woolpile. The adjustable expander at the base of the door shall be fit with a strip of rubber.

Hardware: Included with each door shall be the following hardware; all necessary screws for installation, latch set with an inside lock, check chain with hold up spring and a heavy-duty pneumatic-type door closer. Optional door handle styles available on request.

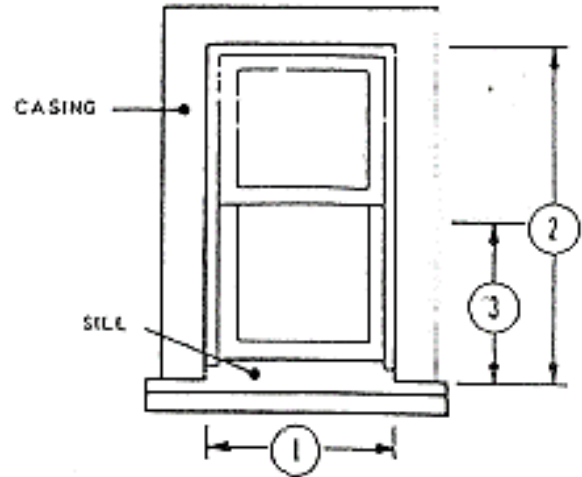
Style Options: Colonial, Hilite, Onelite, Carriage, Provincials, Georgian Shutters, Four Squares, Self-Storing styles. Door available in expander and French door applications.

Options: Glazing: Beveled, acrylic, lexan, and special tempered glass.

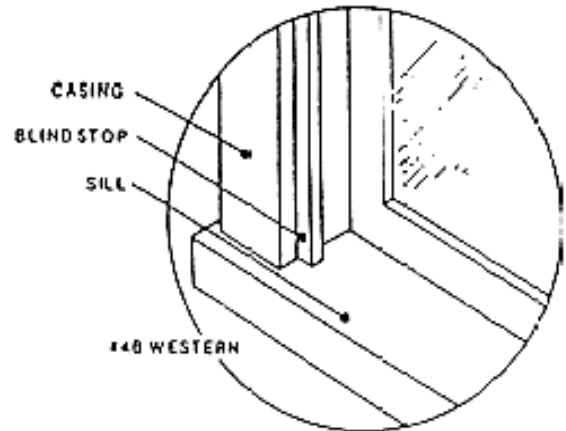
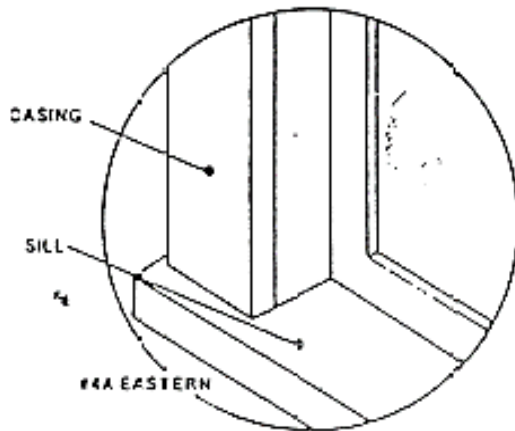


MEASURING INSTRUCTIONS FOR COMBINATION ALUMINUM STORM WINDOW

1. Measure width between casings.
2. Measure height from sill to bottom edge of the casing.
3. Be sure top sash and bottom sash are the same height. If height is different, this is an ORIEL WINDOW and must be made to match existing sashes. For Oriels, measure from sill to bottom of top sash.



4. Determine if window casing is EASTERN (See 4A) or WESTERN (See 4B). If casing is Eastern, the storm window will be manufactured so that frame will overlap the window casing and install directly onto casing. If the casing has a blind stop, the window is WESTERN TYPE and must be mounted on the blind stop



REMEMBER: When ordering Windows, you must provide the following information:

1. Width first, then height
2. If Oriel – Height of meeting rail from sill to bottom of meeting rail.
3. Is casing EASTERN or WESTERN?
4. Finish (White, Bronze or Anodized)

Measuring Instructions For Combination Aluminum Door

To properly measure any door opening, you must make six simple measurements. All measurements should be made from outside the house with the door closed. When making these measurements, remember

WHEN DETERMINING THE WIDTH AND HEIGHT TO BE ORDERED, USE THE SMALLEST DIMENSION.

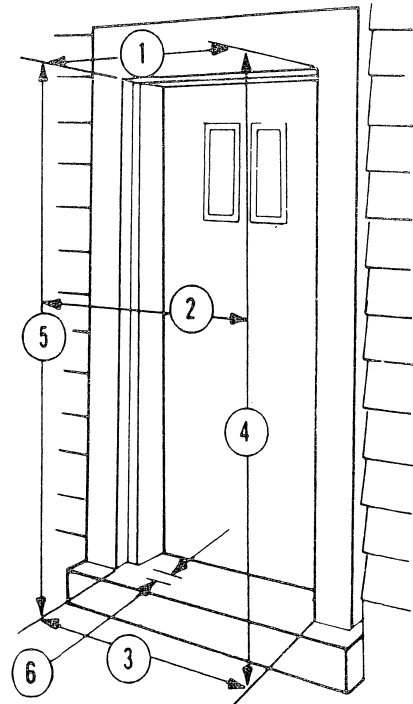
You must measure:

1. Width of door frame opening at top
2. Width of door frame opening in center
3. Width of door frame opening at bottom
4. Height of door frame opening on right
5. Height of door frame opening on left
6. Measure depth of rabbet (small recess on frame casing where storm door fits).

If 3/4" to 1" - order EASTERN

If 1-1/8" or more - order WESTERN

NOTE: All doors are furnished with Zee Bars



FOR FACTORY PREHANGING - To determine the hinging of prehung doors, face the door from outside the house, and tell us to prehang door with hinge on right or hinge on left side of door.

REMEMBER: When ordering doors, you must provide the following information:

1. Smallest frame opening width
2. Smallest frame opening height
3. EASTERN or WESTERN Z-bars
4. Hinge Right or Hinge Left
5. Style of Door and Finish



Patio Door Screen (Custom size)

WHITE	\$1.50 ui
BRONZE	\$1.60 ui
ALMOND	\$ 1.60 ui

STOCK SIZE SCREENS	Available in:	White, or Almond
5'	29" x 77 3/4"	\$ 150.00
6'	35" x 77 3/4"	\$ 160.00
8'	47 x 77 3/4"	\$ 170.00

Storm Window Replacement Inserts

Screen insert	\$1.00 ui (\$ 60.00 minimum)
Glass insert	\$1.20 ui (\$ 70.00 minimum)

Storm Door Replacement Inserts 5/16 thick x 7/8 wide

Door screen straight	\$.80 ui
Door screen scallop	\$.90 ui
Stock tempered door insert	\$1.20 ui
Custom tempered door insert	\$2.00 ui
Plexi door insert	\$2.00 ui
Charcoal screen wire (100 roll)	\$1.50 sq ft
Pet Screen	\$3.00 sq ft

Warranty

Aluminum Storm Products with standard Baked Enamel finishes (2603) have a warranty for 5 years excluding coastal area*. Coastal Finishes (2605) carry a warranty of 3 years when used in coastal areas*. Please see full warranty for complete information. (* see definitions of coastal areas on full warranty)



Aluminum Porch Enclosures

1"x1" components White standard	<100 ui	101-140 ui	Feature summary
1"x1" Box Screen	\$1.45 ui	\$1.65 ui	<ul style="list-style-type: none"> • Extruded Frame • .060" Thick Frame • Baked Enamel Finish
1"x1" with Kickpanel	\$1.65 ui	\$1.95 ui	
1"x1" Trapezoids	\$3.50 ui	\$4.50ui	

Storm Door Panels		Hi-Lite	DbL. Kick	XBUCK	1-Lite	Self-Storing
White	Model 200	\$398	N/A	\$398	\$398	N/A

Accessories and Parts

Screen Mullions		\$ 20.00 per mullion
2" – F-Channel (15')	\$ 1.90 per foot	\$ 41.00
1" – F-Channel (15')	\$ 1.90 per foot	\$ 41.00
1 ½" – H-Channel (15')	\$ 1.90 per foot	\$ 41.00
1 ½" – U-Channel (15')	\$ 1.90 per foot	\$ 41.00
3/8"x5/8" Angle (15')	\$ 0.95 per foot	\$ 17.50
1"x1" Box Screen Frame (15')	\$ 2.80 per foot	\$ 60.50
2"x3" Square Tubing (15')	Special Order Non Stock	Call for Pricing

General: Manufactured by STERGIS Windows and Doors, Attleboro, Massachusetts

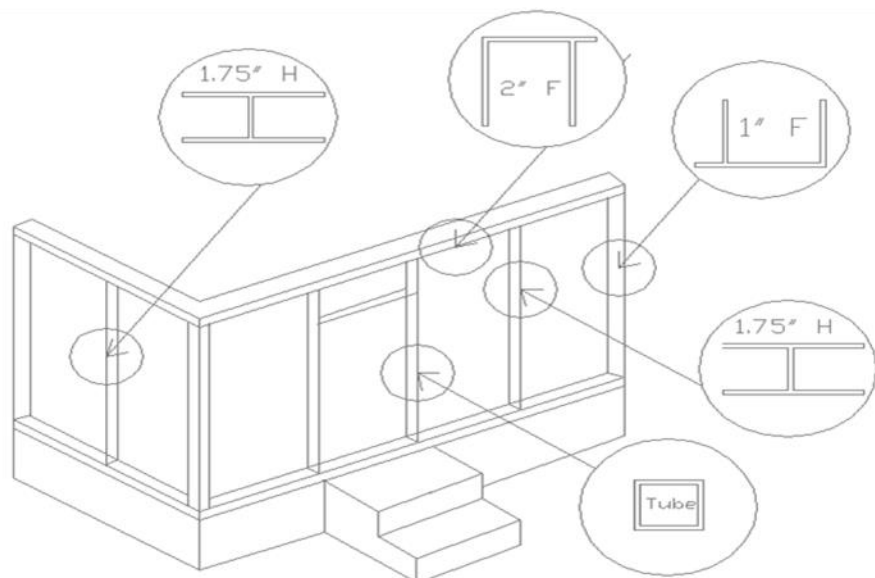
Materials: Enclosure system shall consist of the Combination Storm Door Panel and special aluminum frame and mulling elements. Extrusions for both door panel and framing and mulling elements shall be 6063-T5 heat treated aluminum alloy.

Panel Construction & Accessories: The panel frames shall consist of hollow extrusions, reinforced with cross mullions of hollow box construction with a minimum wall thickness of .060". The door panel frame shall be mitered and joined with stainless steel screws into die cast corner keys. Door main rails shall be 1 1/8" deep and 2 3/8" wide. The mullions shall overlap the inside lip of the frame and shall be attached to the frame by four stainless steel screws. The mullions shall be a minimum of 1" thick by 2 3/8" wide. The kickplate shall be inserted and glued with a silicone based adhesive into a 1/8" deep groove on all four sides. The kickplate shall be an .032" textured or embossed aluminum sheet. The accessory pieces shall consist of 1" F channel, 2" F channel, 1 1/2" U channel and 2" H channel all with a nominal wall thickness of .050".

Sash & Screen Insert for Door Panel: Sash shall be glazed with 1/8" tempered glass as standard. Insert shall be marine glazed using vinyl wrap around a U-channel set in an aluminum frame. Corners shall be mitered and joined by the use of a stamped cast corner key securely staked in place. Screen frame shall be of hollow box construction. It shall be mitered and staked using stamped aluminum corners. Screen wire shall be 18 x 16 mesh, non-glare charcoal finish aluminum held in place by a corrugated vinyl spline. Both glass and screen insert shall be retained in the door panel by the use of aluminum clips and thumb screws set in aluminum rivnuts.

Available Finishes: All aluminum finishes shall be electrostatically applied baked enamel in white.

When ordered with acrylic, lexan, or special tempered glass, we are able to make the door panels any width between 12" and 48" and any height from 50" to 100".





www.Stergis.com
 79 Walton Street, Attleboro MA
 508-455-0661 • FAX 508-455-0622 • 1-888-STERGIS

COMMERCIAL CHECK LIST

Please complete this form for all commercial projects that have submitted a P.O.

Account Name		
Account Sales Person		
Purchase Order		
Date		
Job Name		
Plans Submitted Please note full set is preferred.	Full Set	
	Floor Plans	
	Window & Door Schedule	
	Elevations	
	Specifications	
	Other-	
Job Address		
Job Site Contact	Email	
	Cell	
	Office	
	Fax	
Requested Delivery Date		

Stergis Windows and Doors Commercial Time Table

1. Once a salesman receives a formal PO or contract for a project a short kickoff meeting must be held with the salesman who quoted the job.
2. At that time the salesman will bring to the table all bid documents that were used to product the quotation. This will include plans and specs. If the job was a bid using only a square foot approach than sales must account for what products they provided for all elevations and the corresponding SF numbers.
3. After the project manager extracts the info needed to begin the project the sales force and the commercial division will work together to execute and communicate with the customer the following steps.
 - a. The project manager must quickly review the best, least expensive materials (that meet the required design and spec) and obtain lead times from the manufacturer.
 - b. Obtain firm lead times for materials and glass.
 - c. Be sure to check engineering specs and material wind and dead loads as the correct selection of parts and materials shown on shop drawings will be affected.
 - d. Begin submittal process for all product catalogs, cut sheets, physical glass and material samples etc.
 - e. Once product submittals are pre-approved and any possible engineering issues resolved, shop drawings can begin.
 - f. Review and request a FIRM start and finish schedule with the fabrication department.
 - g. Check available installers for manpower and confirm installation start and finish dates.
 - h. After items a – g are complete, provide a written schedule to the customer for shop drawings, lead times for materials, lead times for start of fabrication, (predicated on return of approved shop drawings).
 - i. Expected start date (and finish) dates.
4. The assigned project manager is responsible for.
 - a. Overseeing of the shop drawing process.
 - b. Providing cutting sheets.
 - c. Confirmation of glass types and ordering of glass.
 - d. Sequencing of fabricating and installation.
 - e. Maintaining day to day contact with the installers.
 - f. Obtain daily production numbers from installer.
 - g. Maintain communication with the customer or end user as required.
 - h. Provide as built shop drawings and close out documentation including OEM and warranty info IF REQUIRED.
 - i. Update Sr. Project Manager of job status and costing during weekly meetings.
 - j. This is the minimum method of project management that all successful contract glazing firms use to insure job flow and cost tracking.

50 Years of Quality Aluminum and Vinyl Windows and Doors

www.alliancewindows.com

We are the First and the Last

www.stergis.com





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INSULATED GLASS			
Thickness	3/32"	1/8"	Minimum Charge
Clear			
Low-E			
EnerG Performance			
Obscure			
Obscure Low-E			
Obscure EnerG			
Tempered Clear			
Tempered Low-E			
Tempered EnerG			
Obscure Tempered			
Low-E Obscure Tempered			
EnerG Obscure Tempered			
Low-E Laminated (.030, .060, .090)			

NON-INSULATED GLASS				
	Single Strength	Double Strength	1/8" Tempered	1/4" Tempered
Clear				
Low-E				
EnerG Performance				
Obscure				
Obscure Low-E				
Obscure EnerG				
Tempered Clear				
Tempered Low-E				
Tempered EnerG				
Obscure Tempered				
Low-E Obscure Tempered				
EnerG Obscure Tempered				
Low-E Laminated (.030, .060, .090)				

OPTIONS			
Grids		OTHER	
Contoured	\$ 26.00 per sash	Dual Seal Silicone (one side)	Add 15%
Flat	\$ 26.00 per sash	Special Shapes	
SDL Exterior Surface 1	\$ 50.00 per sash	Glazing Tape (1/16" x 1/2" x 150')	\$ 20.00
SDL Interior Surface 4	\$ 50.00 per sash		
Prairie	\$ 26.00 per sash		
Diamond	\$ 80.00 per sash		
Custom 2 Toned	\$ 75.00 per sash		

Frequently Asked Questions

Should you have any further questions, please contact a Sales Representative at 1-888-STERGIS.

My double-hung window sash came out when cleaning?



Using a regular straight screwdriver, turn the metal cam in the pivot shoe so the cam slot is horizontal or in the unlocked position. Using the screwdriver, position the left side 3 inches above the top of the sill and rotate the cam so the cam opening is at the top. This activates the brake and the shoe will remain in this position. Repeat on right side.



Hold the sash in a horizontal position and locate the sash tilt pins into the metal cams in the pivot shoes. Make certain they are engaged completely.

Once both tilt pins are in metal cams in the pivot shoe the sash should be level and horizontal. Using two hands tilt the sash upward into the operational position. Make sure both tilt release buttons on the top corners of the sash are completely engaged.

How do I Tilt-In my double-hung windows for cleaning?



Raise the bottom sash up three inches above the sill. Using the tilt release latches at the top corners of the sash, push them towards the center of the sash and tilt the sash inward and allow it to rest on interior window sill. This will allow you to clean and it will not become disengaged from the pivot shoe. *Holding the sash horizontally or parallel to the floor can allow the sash to come out of its pivot shoe while cleaning.*

Lower the top sash three to four inches above the bottom sash. Using the tilt release latches at the top corners of the sash, push them towards the center of the sash and tilt the sash inward and allow it to rest on the bottom sash. This will allow you to clean and it will not become disengaged from the pivot shoe.

Holding the sash horizontally or parallel to the floor can allow the sash to come out of its pivot shoe while cleaning.



How do I remove my half screens from the window?

- Raise the bottom sash
- Unlock the screen and raise it to the middle of the window
- Lower bottom sash to 3 inches from sill then tilt-in bottom sash
- Lower top sash within 3 inches of tilted bottom sash and tilt in top sash
- Now you should be able to access the screen easily
- The screen is spring loaded on the right side (Inside looking out)
- While holding the lock pin in (Locking Screen) on the bottom left, grab the screen on top and bottom
- Pull/Push the screen towards the right side to collapse the springs
- Now you can remove the screen on the left side towards the exterior
- To replace the screen follow directions in reverse



What is condensation and why is it happening to my windows?

Condensation on New Windows: New windows often seal air leaks and a tighter house can mean elevated humidity. Water forming on your new windows can be because of several things. The humidity of your indoor air is quite possibly much higher now with your new windows because the air leaks around your old windows were eliminated once the new windows were installed. Prior to new windows the colder, drier air that leaked into homes from the outdoors lowered the humidity level indoors.

Inside Condensation: Condensation within the home occurs when warm, moist air comes in contact with a cooler surface. Cool air can not hold as much moisture as warm air and droplets of water become visible on the window glass. The window does not cause this; it is the moisture that is already in your home. Consider this as a warning sign that your home has too much moisture in the air. Chances are, if condensation is visible on the windows, it may also be occurring in other areas of the home. Many types of condensation are temporary, such as condensation from a warm shower. Changing seasons from humid summers to cooler falls can also be a cause of temporary condensation. Lots of other things around your home also contribute to the addition of water vapor in the air. Uncovered ground in crawl spaces, indoor plants, laundry hung out to dry, cooking activities, aquariums, humidifiers, etc. all add water vapor to the air. Add to this the natural humidity that Mother Nature contributes to the air all around us and you can see that elevated humidity can be a very common occurrence.

Outside Condensation: Condensation on the outside of an insulated glass or insulating unit is not an indication that the glass or insulated unit is defective. Under the right set of atmospheric conditions it is possible to get condensation on the exterior glass surface of an insulated unit.

Specifically, if the conditions are as follows:

Glass temperature below dew point temperature	Clear night sky	Still air
High relative humidity	Well insulated glazings.	

Exposure to these conditions, the exterior surface of the glass can radiate heat away into the night sky such that the glass temperature falls below the dew point of the ambient air. When this occurs, moisture from the air condenses on the glass surface. Only when the glass temperature rises above the dew point will the condensation evaporate back into the air. Dew forms on grass, car hoods and roofs, building roofs and walls, are common and accepted as a fact of nature.

The presence of moisture indicates that the specific set of atmospheric conditions exist and that the insulated glass is indeed doing its job-that of insulating the building from the environment. In this case, that insulation capability is what retards the flow of building heat through the glass and prevents warming of the exterior above dew point.

If exterior condensation occurs on insulated glass, there is little or nothing that can be done to prevent its recurrence. Draperies should open to allow as much heat transfer through the glass as possible. Trees or buildings can block the radiation view to the sky. Shrubbery immediately adjacent to the glass can increase the local humidity and may need to be moved. The exterior surface of the glass will warm and the condensation will evaporate when the heat loss to the sky is blocked (i.e. clouds), the wind picks up, or sunlight is absorbed on the glass.

In Short: High performing Low E glass does its job of holding the heat inside the home. Exterior condensation generally only occurs a few of times per year, when the conditions are ideal for it.

Note: Air conditioning set to keep the home very cool will accelerate exterior condensation.

If you have a condensation problem, there are many simple steps you can take to reduce the humidity level in your home:

- Vent clothes dryers, gas burners, etc. to the outdoors.
- Check that all ventilation equipment is adjusted properly.
- Use kitchen and bathroom exhaust fans.
- Air out the kitchen, bathroom and laundry room during and after use by opening a window for a few minutes.
- Make sure attic louvers remain open all year round and that crawl spaces are properly ventilated.
- Consult a local heating and ventilation contractor to help determine whether ventilation is adequate and whether it can be improved.
- Insure humidifiers are correctly set according to the outside temperature.