Architectural Testing

TEST REPORT

Report No.: D2398.01-501-47

Rendered to:

DECEUNINCK NORTH AMERICA, LLC
Monroe, Ohio

PRODUCT TYPE: PVC Swing-out Casement Window
SERIES/MODEL: 141.194 CA-008

SPECIFICATIONS: AAMA/WDMA/CSA 101/I.S.2/A440-11, *NAFS - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

AAMA/WDMA/CSA 101/I.S.2/A440-05, *Standard/Specification for Windows, Doors, and Unit Skylights.*

A440S1-09, Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440, NAFS – *North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

Test Dates: 10/15/13
Through: 10/25/13
Report Date: 02/04/14

Architectural Testing

SUMMARY OF RESULTS

	Summary of Results	
Title	**Test Specimen #1** *Reinforced stiles* *One snubber set*	**Test Specimen #2** *Reinforced stiles* *Two snubber sets*
AAMA/WDMA/CSA 101/I.S.2/A440-11 Rating	Class R-PG15 914 x 1829 (36 x 72)- C	Class LC-PG25 914 x 1829 (36 x 72)- C
AAMA/WDMA/CSA 101/I.S.2/A440-05 Rating	C-R15 914 x 1829 (36 x 72)	C-LC25 914 x 1829 (36 x 72)
Design Pressure	±720 Pa (±15.04 psf)	±1200 Pa (±25.06 psf)
Air Infiltration	0.10 L/s/m^2 (0.02 cfm/ft^2)	N/A
Canadian Air Infiltration/Exfiltration Level	A3	N/A
Water Penetration Resistance Test Pressure	580 Pa (12.11 psf)	N/A

	Summary of Results	
Title	**Test Specimen #3** *Reinforced stiles* *Three snubber sets*	**Test Specimen #4** *Reinforced stiles and rails* *Three snubber sets*
AAMA/WDMA/CSA 101/I.S.2/A440-11 Rating	Class LC-PG35 914 x 1829 (36 x 72)- C	Class LC-PG45 914 x 1829 (36 x 72)- C
AAMA/WDMA/CSA 101/I.S.2/A440-05 Rating	C-LC35 914 x 1829 (36 x 72)	C-LC45 914 x 1829 (36 x 72)
Design Pressure	±1680 Pa (±35.09 psf)	±2160 Pa (±45.11 psf)

Architectural Testing

SUMMARY OF RESULTS

	Summary of Results	
Title	**Test Specimen #5** *Non-reinforced* *One snubber set*	**Test Specimen #6** *Non-reinforced* *Three snubber sets*
AAMA/WDMA/CSA 101/I.S.2/A440-11 Rating	Class R- PG35 610 x 1524 (24 x 60)- C	Class R- PG75 610 x 1524 (24 x 60)- C
AAMA/WDMA/CSA 101/I.S.2/A440-05 Rating	C-R35 610 x 1524 (24 x 60)	C-R75 610 x 1524 (24 x 60)
Design Pressure	±1680 Pa (±35.09 psf)	±3600 Pa (±75.19 psf)
Air Infiltration	0.2 L/s/m^2 (0.03 cfm/ft^2)	N/A
Canadian Air Infiltration/Exfiltration Level	A3	N/A
Water Penetration Resistance Test Pressure	580 Pa (12.11 psf)	N/A

	Summary of Results	
Title	**Test Specimen #7** *Reinforced stiles* *One snubber set*	**Test Specimen #8** *Reinforced stiles* *Three snubber sets*
AAMA/WDMA/CSA 101/I.S.2/A440-11 Rating	Class R-PG40 610 x 1524 (24 x 60)- C	Class LC-PG75 610 x 1524* (24 x 60*)- C
AAMA/WDMA/CSA 101/I.S.2/A440-05 Rating	C-R40 610 x 1524 (24 x 60)	C-LC75 610 x 1524* (24 x 60*)
Design Pressure	±1920 Pa (±40.10 psf)	±3600 Pa (±75.19 psf)

Test Completion Date: 10/25/2013

Reference must be made to Report No. D2398.01-501-47, dated 02/04/14 for complete test specimen description and detailed test results.

1.0 Report Issued To: Deceuninck North America, LLC
351 North Garver Road
Monroe, Ohio 45050

2.0 Test Laboratory: Architectural Testing, Inc.
1140 Lincoln Avenue
Springdale, Pennsylvania 15144
724 275-7100

3.0 Project Summary:

3.1 Product Type: PVC Swing-out Casement Window

3.2 Series/Model: 141.194 CA-008

3.3 Compliance Statement: Results obtained are tested values and were secured by using the designated test method(s). The specimens tested successfully met the performance requirements for the following ratings:

Test Specimen No.	AAMA/WDMA/CSA 101/I.S.2/A440-11 Rating	AAMA/WDMA/CSA 101/I.S.2/A440-05 Rating
1	Class R-PG15 914 x 1829 (36 x 72)- C	C-R15 914 x 1829 (36 x 72)
2	Class LC-PG25 914 x 1829 (36 x 72)- C	C-LC25 914 x 1829 (36 x 72)
3	Class LC-PG35 914 x 1829 (36 x 72)- C	C-LC35 914 x 1829 (36 x 72)
4	Class LC- PG45 914 x 1829 (36 x 72)- C	C-LC45 914 x 1829 (36 x 72)
5	Class R- PG35 610 x 1524 (24 x 60)- C	C-R35 610 x 1524 (24 x 60)
6	Class R- PG75 610 x 1524 (24 x 60)- C	C-R75 610 x 1524 (24 x 60)
7	Class R-PG40 610 x 1524 (24 x 60)- C	C-R40 610 x 1524 (24 x 60)
8	Class LC-PG75 610 x 1524* (24 x 60*)- C	C-LC75 610 x 1524* (24 x 60*)

***General Note**: An asterisk (*) next to the size designation indicates that the size tested for optional performance was smaller than the Gateway test size for the product type and class.*

3.0 Project Summary: (Continued)

3.4 Test Dates: 10/15/2013 - 10/25/2013

3.5 Test Record Retention End Date: All test records for this report will be retained until February 4, 2018.

3.6 Test Location: Deceuninck North America, LLC test facility in Monroe, Ohio. Calibration of test equipment was performed by Architectural Testing in accordance with AAMA 205-01 "In-Plant Testing Guidelines for Manufacturers and Independent Laboratories".

3.7 Test Sample Source: The test specimens were provided by the client. Representative samples of the test specimen(s) will be retained by Architectural Testing for a minimum of four years from the test completion date.

3.8 Drawing Reference: The test specimen drawings have been reviewed by Architectural Testing and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Architectural Testing per the drawings located in Appendix B. Any deviations are documented herein or on the drawings.

3.9 List of Official Observers:

Name	Company
Dean Erbaugh	Deceuninck North America, LLC
James Grippo	Architectural Testing, Inc.

4.0 Test Specification(s):

AAMA/WDMA/CSA 101/I.S.2/A440-11, *NAFS - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

AAMA/WDMA/CSA 101/I.S.2/A440-05, *Standard/Specification for Windows, Doors, and Unit Skylights.*

A440S1-09, Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440, NAFS – *North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

5.0 Test Specimen Description:

5.1 Product Sizes:

Test Specimens #1, #2, #3 and #4:

Overall Area: 1.7 m^2 (18.0 ft^2)	**Width**		**Height**	
	millimeters	**inches**	**millimeters**	**inches**
Overall size	914	36	1829	72
Vent size	873	34-3/8	1788	70-3/8
Screen size	811	31-15/16	1729	68-1/16

Test Specimens #5, #6, #7 and #8:

Overall Area: 0.9 m^2 (10.0 ft^2)	**Width**		**Height**	
	millimeters	**inches**	**millimeters**	**inches**
Overall size	610	24	1524	60
Vent size	568	22-3/8	1438	58-3/8
Screen size	506	19-15/16	1424	56-1/16

The following descriptions apply to all specimens.

5.2 Frame Construction:

Frame Member	**Material**	**Description**
Head, sill, and jambs	PVC	Extruded

	Joinery Type	**Detail**
All corners	Mitered	Thermally welded

5.3 Vent Construction:

Sash Member	**Material**	**Description**
All rails and stiles	PVC	Extruded

	Joinery Type	**Detail**
All corners	Mitered	Thermally welded

5.0 Test Specimen Description: (Continued)

5.4 Weatherstripping:

Description	Quantity	Location
Co-extruded 0.250" diameter flexible vinyl bulb seal	1 Row	Vent perimeter interior side
Co-extruded 0.280" high flexible fin	1 Row	Vent perimeter at mid profile
0.400" high foam filled vinyl jacket leaf	1 Row	Vent perimeter exterior side

5.5 Glazing: *No conclusions of any kind regarding the adequacy or inadequacy of the glass in any glazed test specimen(s) can be made.*

Glass Type	Spacer Type	Interior Lite	Exterior Lite	Glazing Method
3/4" IG	Butyl, single sealed	3/32" annealed	3/32" annealed	The glass was set from the exterior against double-side adhesive tape and secured with rigid vinyl glazing beads.

Location	Quantity	Daylight Opening		Glass Bite
		millimeters	inches	
Test Specimens #1, #2, #3, and #4: Vent	1	787 x 1702	31 x 67	1/2"
Test Specimens #5, #6, #7, and #8: Vent	1	483 x 1397	19 x 55	1/2"

5.6 Drainage:

Drainage Method	Size	Quantity	Location
Weepslot	3/8" wide by 3/16" deep	2	Exterior face of bottom rail, one 2-1/4" from each end
Weepslot	3/8" wide by 3/16" deep	2	Bottom rail glazing pocket, one at each end

5.0 Test Specimen Description: (Continued

5.7 Hardware:

Description	Quantity	Location
Rotary operator	1	Sill with guide track at bottom rail
Multi point lever/lock bar system	1	Test Specimens #1, #2, #3 and #4: Jamb with four metal keepers on the stile at 3-1/2", 22-1/2", 42-1/4" and 61-1/2" up from bottom. Test Specimens #5, #6, #7 and #8: Jamb with three metal keepers on the stile at 3-1/2", 27" and 49-1/2" up from bottom.
Single arm concealed hinge with stainless steel guide track	2	Top rail/ head, and bottom rail/sill
Metal stud bracket	1	Bottom rail
Plastic ramp block	1	Bottom rail

Test specimens #1, #5 and #7:

Description	Quantity	Location
Metal Snubbers - alignment	1 Set	Midspan of hinge stile/ jamb

Test specimen #2:

Description	Quantity	Location
Snubbers - alignment	2 Sets	One set off each side of midspan of hinge stile / jamb

Test specimens #3, #4, #6 and #8:

Description	Quantity	Location
Snubbers - alignment	2 Sets	One set off each side of midspan of hinge stile / jamb
Snubbers interlock	1 Set	Midspan of hinge stile/ jamb

5.8 Reinforcement: Test specimens #5 and #6; No reinforcement was utilized.

Test specimens #1, #2, #3, #4, #7 and #8:

Drawing Number	Location	Material
10500006	All stiles	Extruded aluminum
10500006	Test specimen #4, top and bottom rails	Extruded aluminum

5.0 Test Specimen Description: (Continued)

5.9 Screen Construction:

Frame Material	Corner Construction	Mesh Type	Mesh Attachment Method
Roll-formed aluminum	Square-cut with plastic corner keys	Fiber	Flexible vinyl spline

6.0 Installation:

Each specimen was installed into a Spruce-Pine-Fir wood buck. The rough opening allowed for a 3/16" shim space. The nail fin perimeter of the window was sealed with a silicone sealant.

Location	Anchor Description	Anchor Location
Integral nail fin	#8 x 5/8" long pan head screw	Nominally spaced at 14" on center, and starting 1" from each end

7.0 Test Results: The temperature during testing was 21.6°C (71°F). The results are tabulated as follows:

Test Specimen #1:

Title of Test	Results	Allowed	Note
Operating Force, per ASTM E 2068	Initiate motion: 26 N (6 lbf) Maintain motion: 13 N (3 lbf) Locks: 9 N (2 lbf)	60 N (13 lbf) max. 30 N (7 lbf) max. 100 N (22.5 lbf) max.	
Air Leakage, Infiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.1 L/s/m^2 (0.02 cfm/ft^2)	1.5 L/s/m^2 (0.3 cfm/ft^2) max.	1
Air Leakage, Exfiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.1 L/s/m^2 (0.02 cfm/ft^2)	1.5 L/s/m^2 (0.3 cfm/ft^2) max.	1
Canadian Air Infiltration/Exfiltration Level	A3	N/A	
Water Penetration, per ASTM E 547	N/A	N/A	3
Uniform Load Deflection, per ASTM E 330 taken at the top rail +720 Pa (+15.04 psf) -720 Pa (-15.04 psf)	 2.0 mm (0.04") 5.3 mm (0.21")	 Report Only.	4, 6, 7
Uniform Load Structural, per ASTM E 330 taken at the top rail +1080 Pa (+22.56 psf) -1080 Pa (-22.56 psf)	 0.3 mm (0.01") 0.3 mm (0.01")	 3.5 mm (0.14") max. 3.5 mm (0.14") max.	 5, 6
Forced Entry Resistance, per ASTM F 588, Type: B- Grade: 10	Pass	No entry	
Thermoplastic Corner Weld	Pass	Meets as stated	
Insect Screen Serviceability per NAFS Canadian Supplement (A440S1-09) 60 N (13.5 lbf)	Pass	Meets as stated	

7.0 Test Results: (Continued)

Test Specimen #1: (Continued)

Title of Test	Results	Allowed	Note
Sash Vertical Deflection 200 N (45 lbf)	2.0 mm (.08")	17.3 mm (0.68") max.	
Distributed Load 300 Pa (6.27 psf)	Pass	No damage	
Optional Performance			
Water Penetration, per ASTM E 547 at 580 Pa (12.11 psf)	Pass	No leakage	

Test Specimen #2:

Title of Test	Results	Allowed	Note
Optional Performance			
Uniform Load Deflection, per ASTM E 330 taken at the top rail +1200 Pa (+25.06 psf) -1200 Pa (-25.06 psf)	 1.8 mm (0.07") 7.3 mm (0.29")	 Report Only	 4, 6, 7
Uniform Load Structural, per ASTM E 330 taken at the top rail +1800 Pa (+37.59 psf) -1800 Pa (-37.59 psf)	 0.5 mm (0.02") 0.8 mm (0.03")	 3.5 mm (0.14") max. 3.5 mm (0.14") max.	 5, 6

Test Specimen #3:

Title of Test	Results	Allowed	Note
Optional Performance			
Uniform Load Deflection, per ASTM E 330 taken at the top rail +1680 Pa (+35.09 psf) -1680 Pa (-35.09 psf)	 1.8 mm (0.07") 13.2 mm (052")	 Report Only	 4, 6, 7
Uniform Load Structural, per ASTM E 330 taken at the top rail +2520 Pa (+52.63 psf) -2520 Pa (-52.63 psf)	 0.3 mm (0.01") 0.8 mm (0.03")	 3.5 mm (0.14") max. 3.5 mm (0.14") max.	 5, 6

7.0 Test Results: (Continued)

Test Specimen #4:

Title of Test	Results	Allowed	Note
Optional Performance			
Uniform Load Deflection, per ASTM E 330 taken at the top rail +2160 Pa (+45.11 psf) -2160 Pa (-45.11 psf)	 1.5 mm (0.06") 9.1 mm (0.36")	 Report Only	 4, 6, 7
Uniform Load Structural, per ASTM E 330 taken at the top rail +3240 Pa (+67.67 psf) -3240 Pa (-67.67 psf)	 0.3 mm (0.01") 0.8 mm (0.03")	 3.5 mm (0.14") max. 3.5 mm (0.14") max.	 5, 6

Test Specimen #5:

Title of Test	Results	Allowed	Note
Operating Force, per ASTM E 2068	Initiate motion: 26 N (6 lbf) Maintain motion: 13 N (3 lbf) Locks: 9 N (2 lbf)	 60 N (13 lbf) max. 30 N (7 lbf) max. 100 N (22.5 lbf) max.	
Air Leakage, Infiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.2 L/s/m^2 (0.03 cfm/ft^2)	1.5 L/s/m^2 (0.3 cfm/ft^2) max.	1
Air Leakage, Exfiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.3 L/s/m^2 (0.05 cfm/ft^2)	1.5 L/s/m^2 (0.3 cfm/ft^2) max.	1
Canadian Air Infiltration/Exfiltration Level	A3	N/A	
Water Penetration, per ASTM E 547	N/A	N/A	3
Uniform Load Deflection, per ASTM E 330 taken at the top rail +720 Pa (+15.04 psf) -720 Pa (-15.04 psf) taken at the hinge stile +720 Pa (+15.04 psf) -720 Pa (-15.04 psf)	 <0.3 mm (<0.01") 0.3 mm (0.01") 0.3 mm (0.01") 1.0 mm (0.04")	 Report Only	 4, 6, 7

7.0 Test Results: (Continued)

Test Specimen #5: (Continued)

Uniform Load Structural, per ASTM E 330 taken at the top rail +1080 Pa (+22.56 psf) -1080 Pa (-22.56 psf) taken at the hinge stile +1080 Pa (+22.56 psf) -1080 Pa (-22.56 psf)	 <0.3 mm (<0.01") <0.3 mm (<0.01") <0.3 mm (<0.01") 0.5 mm (0.02")	 2.3 mm (0.09") max. 2.3 mm (0.09") max. 3.0 mm (0.12") max. 3.0 mm (0.12") max.	5, 6
Forced Entry Resistance, per ASTM F 588, Type: B - Grade: 10	Pass	No entry	
Thermoplastic Corner Weld	Pass	Meets as stated	
Sash Vertical Deflection 200 N (45 lbf)	0.8 mm (.03")	11.4 mm (0.45") max.	
Distributed Load 240 Pa (5.0 psf)	Pass	No damage	
Optional Performance			
Water Penetration, per ASTM E 547 at 580 Pa (12.11 psf)	Pass	No leakage	
Uniform Load Deflection, per ASTM E 330 taken at the top rail +1680 Pa (+35.09 psf) -1680 Pa (-35.09 psf) taken at the hinge stile +1680 Pa (+35.09 psf) -1680 Pa (-35.09 psf)	 0.8 mm (0.03") 1.3 mm (0.05") 0.8 mm (0.03") 2.3 mm (0.09")	 Report Only	5, 6
Uniform Load Structural, per ASTM E 330 taken at the top rail +2520 Pa (+52.63 psf) -2520 Pa (-52.63 psf) taken at the hinge stile +2520 Pa (+52.63 psf) -2520 Pa (-52.63 psf)	 <0.3 mm (<0.01") <0.3 mm (<0.01") 0.3 mm (0.01") 0.5 mm (0.02")	 2.3 mm (0.09") max. 2.3 mm (0.09") max. 3.0 mm (0.12") max. 3.0 mm (0.12") max.	5, 6

7.0 Test Results: (Continued)

Test Specimen #6:

Title of Test	Results	Allowed	Note
Optional Performance			
Uniform Load Deflection, per ASTM E 330 taken at the top rail +3600 Pa (+75.19 psf) -3600 Pa (-75.19 psf)	 0.8 mm (0.03") 2.8 mm (0.11")	 Report Only	 4, 6, 7
Uniform Load Structural, per ASTM E 330 taken at the top rail +5400 Pa (+112.78 psf) -5400 Pa (-112.78 psf)	 0.5 mm (0.02") 0.8 mm (0.03")	 2.3 mm (0.09") max. 2.3 mm (0.09") max.	 5, 6

Test Specimen #7:

Title of Test	Results	Allowed	Note
Optional Performance			
Uniform Load Deflection, per ASTM E 330 taken at the top rail +1920 Pa (+40.10 psf) -1920 Pa (-40.10 psf)	 0.5 mm (0.02") 1.38 mm (0.05")	 Report Only	 4, 6, 7
Uniform Load Structural, per ASTM E 330 taken at the top rail +2880 Pa (+60.15 psf) -2880 Pa (-60.15 psf)	 0.3 mm (0.01") 0.8 mm (0.03")	 2.3 mm (0.09") max. 2.3 mm (0.09") max.	 5, 6

Test Specimen #8:

Title of Test	Results	Allowed	Note
Optional Performance			
Uniform Load Deflection, per ASTM E 330 taken at the top rail +3600 Pa (+75.19 psf) -3600 Pa (-75.19 psf)	 0.8 mm (0.03") 3.0 mm (0.12")	 Report Only	 4, 6, 7
Uniform Load Structural, per ASTM E 330 taken at the top rail +5400 Pa (+112.78 psf) -5400 Pa (-112.78 psf)	 0.5 mm (0.02") 1.5 mm (0.06")	 2.3 mm (0.09") max. 2.3 mm (0.09") max.	 5, 6

7.0 Test Results: (Continued)

Note 1: The tested specimen meets (or exceeds) the performance levels specified in AAMA/WDMA/CSA 101/I.S.2/A440 for air leakage resistance.

Note 2: With and without insect screen.

Note 3: The client opted to start at a pressure higher than the minimum required. Test results are reported under Optional Performance.

Note 4: The deflections reported are not limited by AAMA/WDMA/CSA 101/I.S.2/A440 for this product designation. The deflection data is recorded in this report for special code compliance and information only.

Note 5: Loads were held for 10 seconds.

Note 6: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.

Note 7: Loads were held for 52 seconds

Architectural Testing will service this report for the entire test record retention period. Test records that are retained such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation will be retained by Architectural Testing, Inc. for the entire test record retention period.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimen(s) tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, Inc.

Digitally Signed by: James P. Grippo

James P. Grippo
Technician

Digitally Signed by: Lynn George

Lynn George
Director- Regional Operations

JPG:sld

Attachments (pages): This report is complete only when all attachments listed are included.
Appendix-A: Alteration Addendum (1)
Appendix-B: Drawings (6)

Appendix A

Alteration Addendum

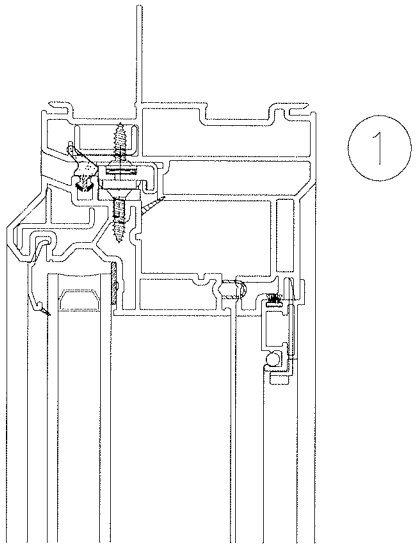
***Note**: No alterations were required.*

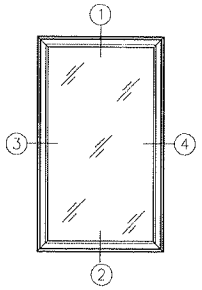
Appendix B

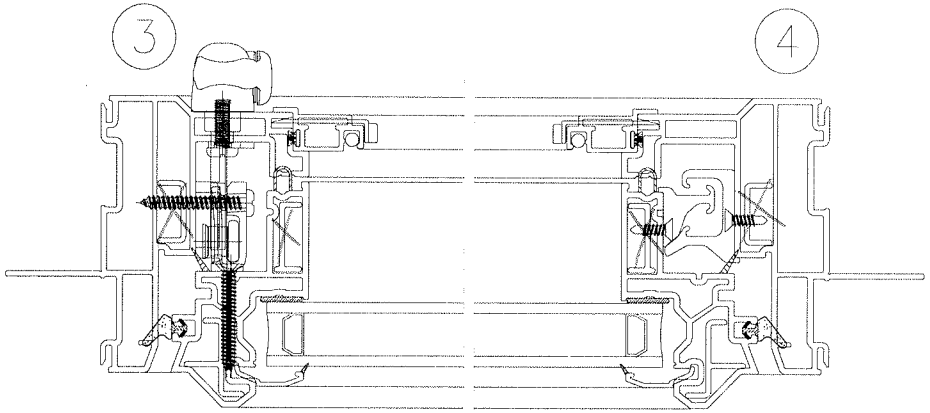
Drawings

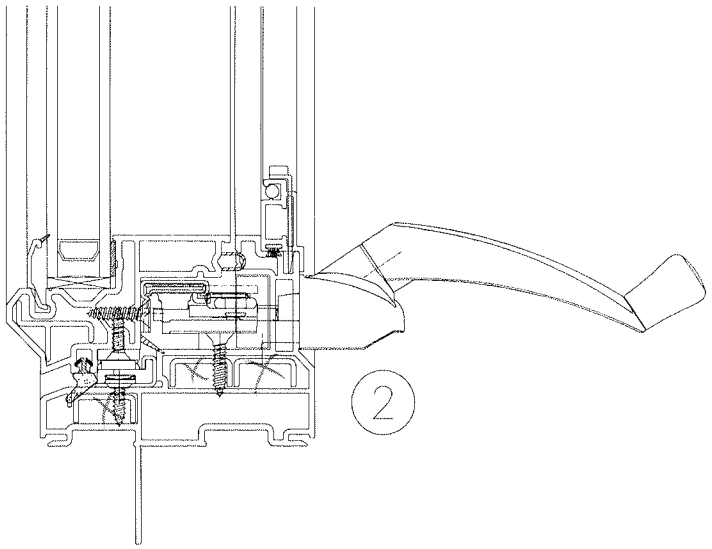
CAD MAINTAINED. CHANGES SHALL BE
INCORPORATED BY THE DESIGN ACTIVITY.

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
-	-	-	-









Architectural Testing

Test sample complies with these details
Deviations are noted.

Report# D2399.01

Date 11/15/13 Tech JG

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6/27/2013

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Casement

DECEUNINCK MODEL NO. 141.194 CA - 008

deceuninck

					Fastener				
		Part No.	Vendor	Material ex. Vinyl, Alum, Composite	Type ex. Rivot / Screw	Qty	Size ex. #4, #6, #8, etc.	Length	Head ex. Pan, Flat, Oval, etc.
Frame									
	Head	10008056	Deceuninck	Vinyl					
	Frame Adapter - Head (if applicable)								
	Jamb	10008056	Deceuninck	Vinyl					
	Sill	10008056	Deceuninck	Vinyl					
	Screen Track Filler								
Sash									
	Top Rail	10005484	Deceuninck	Vinyl					
	Lock Stile	10005484	Deceuninck	Vinyl					
	Hinge Stile	10005484	Deceuninck	Vinyl					
	Bottom Rail	10005484	Deceuninck	Vinyl					
	Glazing Bead	10005473	Deceuninck	Vinyl					
Hardware									
	Glass Thickness	3/4"		Glass					
	Operator								
	Hinge Track								
	Hinge Sash Arm								
	Keeper								
	Lock Handle								
	Tie Bar or Lock Bar Guides								
	Snubber - Sash								
	Snubber - Frame								
Reinforcement	(if applicable)								
	Frame	~~10202004~~ X		Mill Alum.					
	Sash (large hollow)	10500006		Mill Alum.					
	Sash (small hollow)	~~10300091~~ X		Mill Alum.					

Architectural Testing

~~Test sample complies~~ with these details. Deviations are noted.

Report# D2398.01

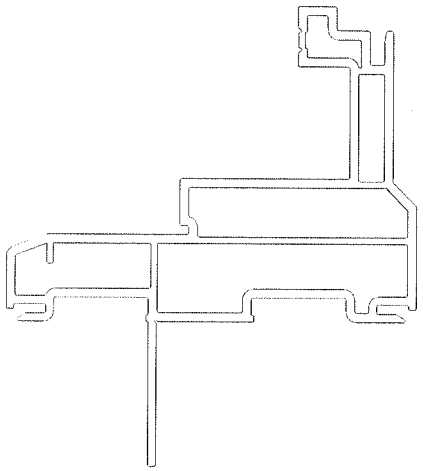
Date 11/10/13 Tech JG

A print and CAD (dxf) drawing for any non-Deceuninck parts (i.e. glazing beads, reinforcements, bulb seals, balance covers, screen adapters, etc.), except glass and hardware components must be emailed along with a copy of this completed form to Deceuninck for the testing process to begin.

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
H	MOVED DATUM TO THE SIDE	10/11/23	BWS

$PLOTDATE$

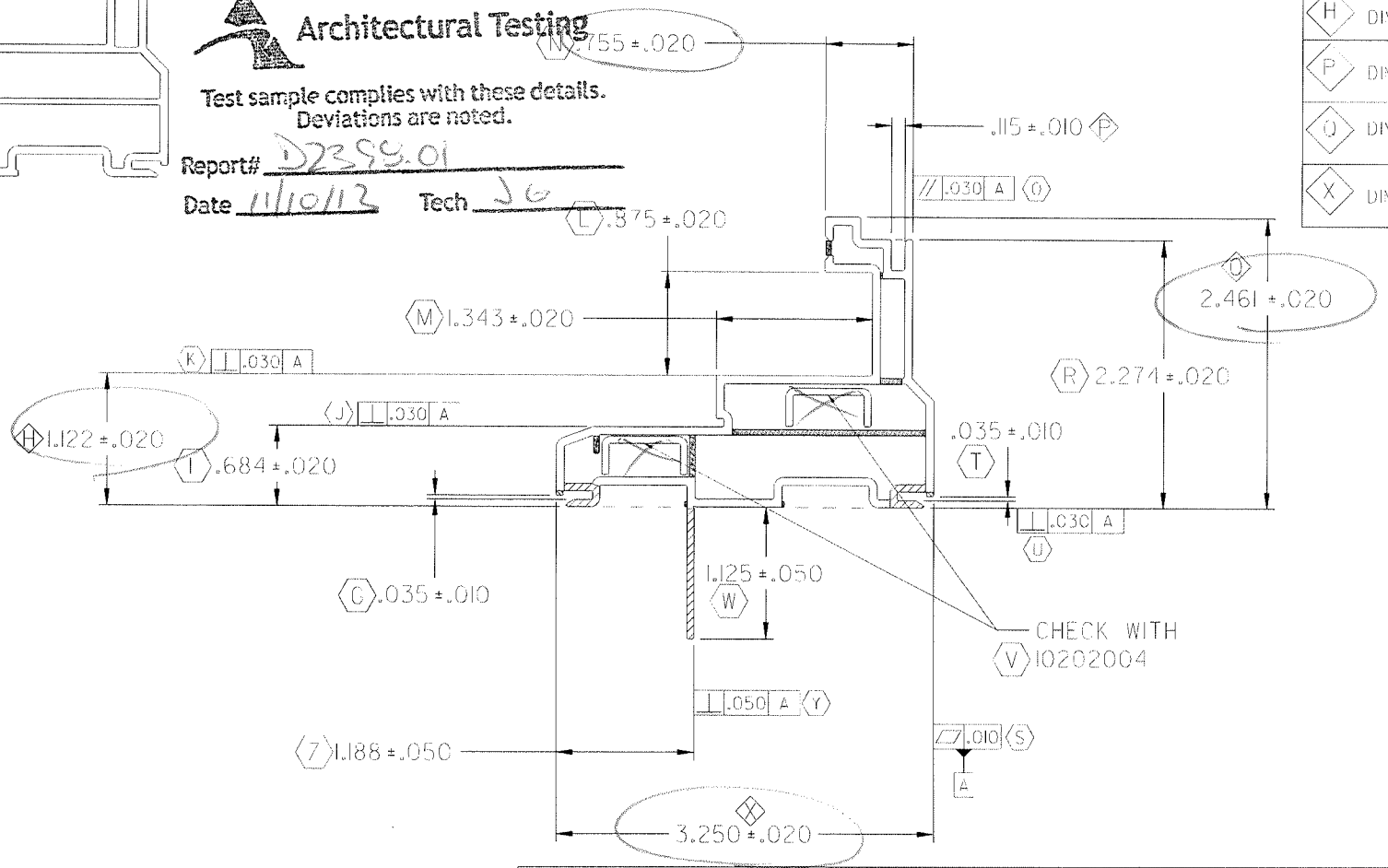


Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# D2399.01

Date 11/10/13 Tech JG



KEY PRODUCT CHARACTERISTICS

H	DIMENSION 1.102 - 1.142
P	DIMENSION .105 - .125
Q	DIMENSION 2.441 - 2.481
X	DIMENSION 3.230 - 3.270

WALL THICKNESS

.070	
.062	
.060	
.050	

$SUSER$

NOTES:

1. STD00013 STRAIGHTNESS CLASS A AND LENGTH TOLERANCES APPLY (A)
2. INTERPRET ALL TOLERANCE APPLICATIONS PER STD00013 (B)
3. UNSPECIFIED EXTERNAL RADII = .XXX +.010 / -.005 (C)
4. UNSPECIFIED INTERNAL RADII = .XXX +.020 / -.005 (D)
5. UNSPECIFIED EXTERNAL WALL THICKNESS = .XXX +/- 10% (E)
6. UNSPECIFIED INTERNAL WALL THICKNESS = .XXX +/- 20% (F)

UNLESS OTHERWISE SPECIFIED
DIM ARE IN INCHES
TOL ON ANGLES ± 1°
2 PL: ± 0.010" 3 PL: ± 0.005"
INTERPRET DIM AND TOL PER
ASME Y14.5M - 1994

THIRD ANGLE PROJECTION

DESIGN BY:	RH
DATE:	99/07/19
DRAWN BY:	RH
DATE:	99/07/19
AUTH:	DATE:
AUTH:	DATE:
AUTH:	DATE:
FILENAME:	*FILE NAME*

deceuninck NORTH AMERICA
351 NORTH GARVER ROAD
MONROE, OHIO 45050

NAME:
MAIN FRAME - CA

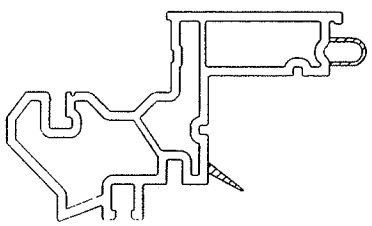
SIZE	DWG. NO:	REV:
B	10008056_SH	H

SCALE:	LBS/FT.:	SHEET:
1:1	.696	1 OF 1

$FILE$

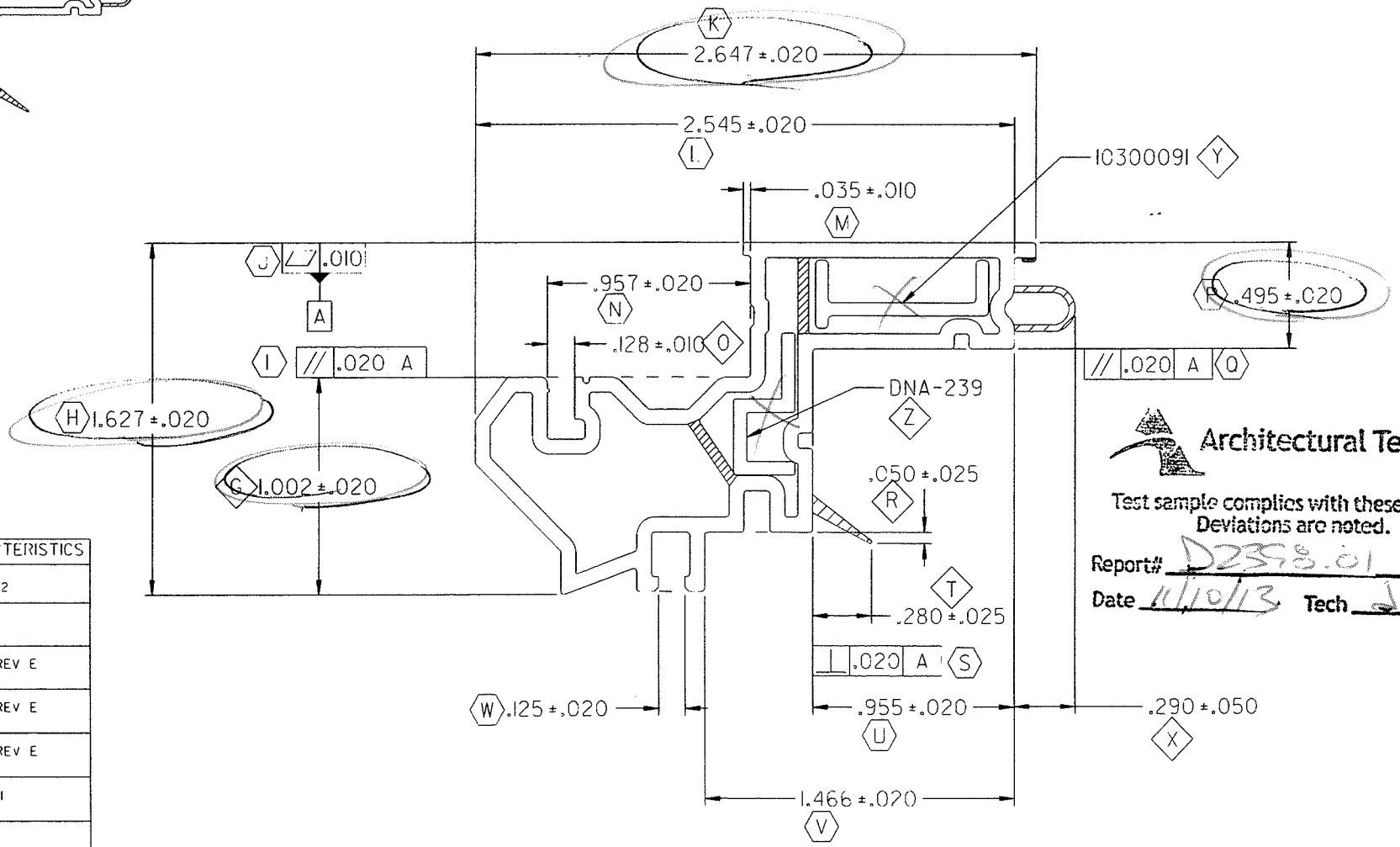
CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
J	ADDED MYLAR	10/03/17	BWB



SCALE 1:1

WALL THICKNESS
.070 -
.050 -
.065 -



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# D2598.01

Date 11/10/13 Tech JC

KEY PRODUCT CHARACTERISTICS
C DIMENSION .982 - 1.022
C DIMENSION .118 - .138
R MYLAR 10005484_OP REV E
T MYLAR 10005484_OP REV E
X MYLAR 10005484_OP REV E
Y ALUM INSERT 10300091
Z CALCE DNA-239

NOTES:

1. 'STD00013' STRAIGHTNESS CLASS A AND LENGTH TOLERANCES APPLY (A)
2. INTERPRET ALL TOLERANCE APPLICATIONS PER STD0013
3. UNSPECIFIED EXTERNAL RADII = .XXX +.010 / -.005 (B)(C)
4. UNSPECIFIED INTERNAL RADII = .XXX +.020 / -.005 (D)(E)
5. UNSPECIFIED EXTERNAL WALL THICKNESS = .XXX +/- 10% (F)
6. UNSPECIFIED INTERNAL WALL THICKNESS = .XXX +/- 20%

UNLESS OTHERWISE SPECIFIED
DIM ARE IN INCHES
TOL ON ANGLES ± 1°
2 PL: ± 0.010" 3 PL: ± 0.005"
INTERPRET DIM AND TOL PER
ASME Y14.5M - 1994

THIRD ANGLE PROJECTION

DESIGN BY:	RH
DATE:	99/7/19
DRAWN BY:	RH
DATE:	99/7/19
AUTH:	DATE:
AUTH:	DATE:
AUTH:	DATE:
FILENAME:	$FILE NAME$

deceuninck NORTH AMERICA
1291 NORTH GARVER ROAD MONROE, OHIO 45050

NAME: MAIN SASH - CA

SIZE	DWG. NO:	REV.
B	10005484	J

SCALE: 2:1 (LBS/FT.) .463 SHEET: 1 OF 1

$PLOTDATE$ $USER$ $FILE$

SCALE 1:1

Architectural Testing

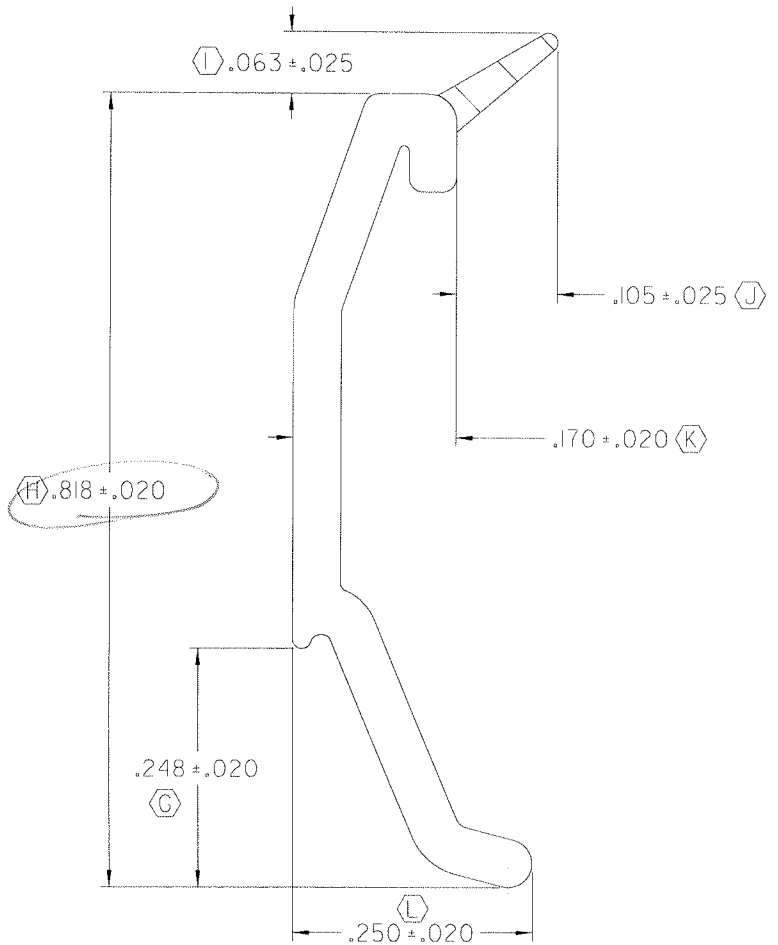
Test sample complies with these details.
Deviations are noted.

Report: D2398.01

Date 11/10/13 Tech. JG

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
E	UPDATED TO CURRENT STNDS	11/01/06	BWB



WALL THICKNESS

.050 -

USE MYLAR 10005473-D

NOTES:

1. 'STD00013' STRAIGHTNESS CLASS E AND LENGTH TOLERANCES APPLY (A)
2. INTERPRET ALL TOLERANCE APPLICATIONS PER STD0013 (B)
3. UNSPECIFIED EXTERNAL RADII = .XXX +.010 / -.005 (C)
4. UNSPECIFIED INTERNAL RADII = .XXX +.020 / -.005 (D)
5. UNSPECIFIED EXTERNAL WALL THICKNESS = .XXX +/- 10% (E)
6. UNSPECIFIED INTERNAL WALL THICKNESS = .XXX +/- 20% (F)

UNLESS OTHERWISE SPECIFIED
DIM ARE IN INCHES
TOL ON ANGLES ± 1°
2 PL: ± 0.010" 3 PL: ± 0.005"
INTERPRET DIM AND TOL PER
ASME Y14.5M - 1994

THIRD ANGLE PROJECTION

DESIGN BY:	PJA	
DATE:	99/06/25	
DRAWN BY:	PJA	
DATE:	99/06/25	
AUTH:	DATE:	
AUTH:	DATE:	
AUTH:	DATE:	
FILENAME:	106609	

deceuninck NORTH AMERICA
351 NORTH GARVER ROAD
MONROE OHIO 45050

NAME: GLAZING BEAD

SIZE	DWG. NO:	REV.
B	10005473.SH	E

SCALE: 8 : 1 | LBS/FT.: .034 | SHEET: 1 OF 1

10/28/2011

usbwb

\\transrv01\depts\data\dgn\106609.DGN

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

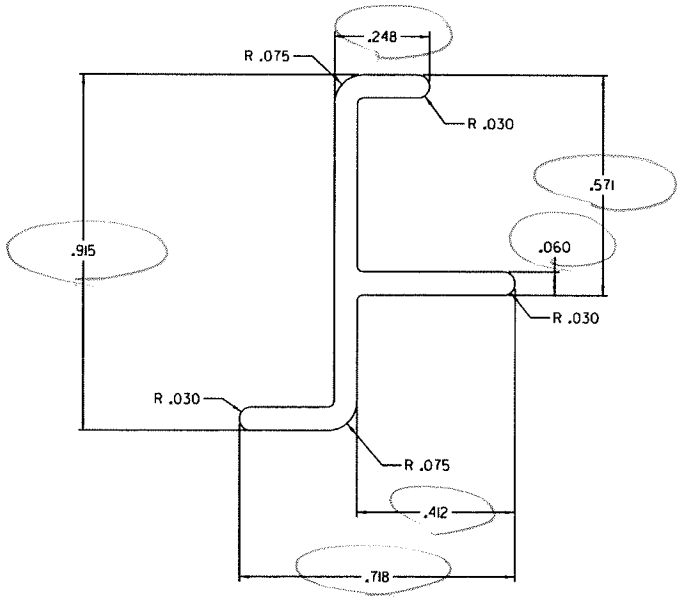
REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
B	UPDATED TITLE BLOCK	06/12/04	JGM

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# D2398.01

Date 11/10/13 Tech JC



ALL UNSPECIFIED RADII SHALL BE .015"

MATERIAL: 6063 - T5 ALUMINUM

UNLESS OTHERWISE SPECIFIED
DIM ARE IN INCHES
TOL ON ANGLES • 1°
2 PL: • 0.010" 3 PL: • 0.005"
INTERPRET DIM AND TOL PER
ASME Y14.5M - 1994

THIRD ANGLE PROJECTION

DESIGN BY:	RH	
DATE:	99/12/01	
DRAWN BY:	JGM	
DATE:	06/12/04	
AUTH:	DATE:	
AUTH:	DATE:	
AUTH:	DATE:	
FILENAME:	10500006.dgn	

deceuninck NORTH AMERICA
351 NORTH GARVER ROAD
MONROE, OHIO 45050

NAME:
CASEMENT REINFORCEMENT

SIZE	DWG. NO:	REV.
C	10500006	B

SCALE: 4 :1 | (LBS/FT.) .122 | SHEET: 1 OF 1

3/26/2007

usjgm

H:\pd\mstr8\ALUMINUM\10500006.dgn