

TEST REPORT

Report No.: C8900.01-501-47

Rendered to:

DECEUNINCK NORTH AMERICA, LLC Monroe, Ohio

PRODUCT TYPE: PVC Out-Swing Casement Window **SERIES/MODEL**: 140.148 CA-007

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.

Test Dates: 05/28/13 **Through**: 08/01/13 **Report Date**: 08/19/13



SUMMARY OF RESULTS

	Summary of Results
	Test Specimen #1
Title	3/32' glass
	Non-reinforced and one snubber
AAMA/WDMA/CSA 101/I.S.2/A440-11	Class R-PG15 37 x 75
Rating	(940 x 1905)- C
AAMA/WDMA/CSA 101/I.S.2/A440-05	C-R15 37 x 75 (940 x 1905)
Rating	C-K13 37 x 73 (940 x 1903)
Design Pressure	±720 Pa (±15.04 psf)
Air Infiltration	0.1 L/s/m ² (0.01 cfm/ft ²)
Water Penetration Resistance Test Pressure	580 Pa (12.12 psf)

	Summary of Results		
Title	Test Specimen #2 3/32" glass Non-reinforced Three snubbers	Test Specimen #3 1/8" glass Reinforced stiles One snubber	
AAMA/WDMA/CSA 101/I.S.2/A440-11 Rating	Class LC-PG35 37 x 75 (940 x 1905) - C	Class LC-PG25 37 x 75 (940 x 1905) - C	
AAMA/WDMA/CSA 101/I.S.2/A440-05 Rating	C-LC35 37 x 75 (940 x 1905)	C-LC25 37 x 75 (940 x 1905)	
Design Pressure	±1680 Pa (±35.09 psf)	±1200 Pa (±25.06 psf)	



SUMMARY OF RESULTS (Continued)

	Summary of Results		
Title	Test Specimen #4 1/8" glass Reinforced stiles Three snubbers	Test Specimen #5 1/8" glass Reinforced stiles and rails Three snubbers	
AAMA/WDMA/CSA 101/I.S.2/A440-11 Rating	Class LC-PG45 37 x 75 (940 x 1905) - C	Class LC-PG50 37 x 75 (940 x 1905) - C	
AAMA/WDMA/CSA 101/I.S.2/A440-05 Rating	C-LC45 37 x 75 (940 x 1905)	C-LC50 37 x 75 (940 x 1905)	
Design Pressure	±2160 Pa (±45.11 psf)	±2400 Pa (±50.13 psf)	

	Summary of Results		
	Test Specimen #6	Test Specimen #7	
Title	3/32" glass	3/32" glass	
Title	Non-reinforced	Reinforced stiles	
	One snubber	Three snubbers	
AAMA/WDMA/CSA 101/I.S.2/A440-11 Rating	Class R PG50 610 x 1524 (24 x 60)- C	Class R PG80 610 x 1524 (24 x 60)- C	
AAMA/WDMA/CSA 101/I.S.2/A440-05 Rating	C-R50 610 x 1524 (24 x 60)	C-R80 610 x 1524 (24 x 60)	
Design Pressure	±2400 Pa (±50.13 psf)	±3840 Pa (±80.20 psf)	
Air Infiltration	0.1 L/s/m ² (0.01 cfm/ft ²)	N/A	
Water Penetration Resistance Test Pressure	580 Pa (12.12 psf)	N/A	

Test Completion Date: 08/01/13

Reference must be made to Report No. C8900.01-501-47, dated 08/19/13 for complete test specimen description and detailed test results.

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Report Date: 08/19/13

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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:

Architectural Testing

3.1 Product Type: PVC Out-Swing Casement Window

3.2 Series/Model: 140.148 CA-007

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 37 x 75 (940 x 1905)- C	C-R15 37 x 75 (940 x 1905)
2	Class LC-PG35 37 x 75 (940 x 1905)- C	C-LC35 37 x 75 (940 x 1905)
3	Class LC-PG25 37 x 75 (940 x 1905)- C	C-LC25 37 x 75 (940 x 1905)
4	Class LC-PG45 37 x 75 (940 x 1905)- C	C-LC45 37 x 75 (940 x 1905)
5	Class LC-PG50 37 x 75 (940 x 1905)- C	C-LC50 37 x 75 (940 x 1905)
6	Class R-PG50 610 x 1524 (24 x 60)- C	C-R50 610 x 1524 (24 x 60)
7	Class R-PG80 610 x 1524 (24 x 60)- C	C-R80 610 x 1524 (24 x 60)

3.4 Test Dates: 05/28/2013 – 08/01/2013

3.5 Test Record Retention End Date: All test records for this report will be retained until August 19, 2017.

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3.0 Project Summary: (Continued)

- **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:

<u>Name</u> <u>Company</u>

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.

5.0 Test Specimen Description:

5.1 Product Sizes:

Test Specimens #1, #2, #3, #4, and #5:

Overall Area:	Width		Hei	ght
1.8 m ² (19.3 ft ²)	millimeters	inches	millimeters	inches
Overall size	940	37	1905	75
Vent size	876	34-1/2	1842	72-1/2



5.0 Test Specimen Description: (Continued)

5.1 Product Sizes: (Continued)

Test Specimens #6 and #7:

rest specimens "o unu "''				
Overall Area:	Width		Hei	ght
$0.9 \text{ m}^2 (10.0 \text{ ft}^2)$	millimeters	inches	millimeters	inches
Overall size	610	24	1524	60
Vent size	546	21-1/2	1461	57-1/2

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

5.4 Weatherstripping:

Description	Quantity	Location
7/16" high foam-filled vinyl jacket fin (Q-LON)	1 Row	Exterior perimeter of vent
5/16" high co-extruded vinyl fin	1 Row	Mid-profile perimeter of vent
1/4" diameter co-extruded vinyl bulb	1 Row	Interior perimeter of vent



5.0 Test Specimen Description: (Continued)

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.

Test specimens #1, #2, #6 and #7:

Glass Type	Spacer Type	Interior Lite	Exterior Lite	Glazing Method
7/8" IG	Silicone foam, single sealed	3/32" clear annealed	3/32" clear annealed	Set from the exterior against double-sided adhesive tape and secured with rigid vinyl glazing beads

Test specimens #3, #4 and #5:

Glass Type	Spacer Type	Interior Lite	Exterior Lite	Glazing Method
7/8" IG	Silicone foam, single sealed	1/8" clear annealed	1/8" clear annealed	Set from the exterior against double-sided adhesive tape and secured with rigid vinyl glazing beads

Logation	Quantity	Dayligh	Glass	
Location		millimeters	inches	Bite
Test specimens #1, #2,				
#3, #4, and #5	1	794 x 1759	31-1/4 x 69-1/4	1/2"
vent				
Test specimens #6 and #7	1	464 x 1378	18-1/4 x 54-1/4	1/2"
vent	1	404 x 13/0	10-1/4 x 34-1/4	1/2

5.6 Drainage:

Drainage Method	Size	Quantity	Location
Weepslot	3/8" wide by 3/16" deep	2	Bottom rail bottom surface, one at 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
Dual arm rotary operator with steel track	1	Sill with track on bottom rail
Lever lock with four tie bar guides	1*	Jamb, with keepers on the stile at 4-3/4", 5-1/2", 46"and 66-3/4" up from the bottom.
Lever lock with three tie bar guides	1**	Jamb, with keepers on the stile at 4-3/4", 28-1/2" and 51" up from the bottom.
Plastic ramp block	1	Sill
Concealed hinge	2	Head/top rail and Sill/bottom rail
Stud bracket	1	Bottom rail

Note: (*) Test specimens #1, #2, #3, #4 and #5

(**) *Test specimens #6 and #7*

Test specimens #1, #3 and #6

Description	Quantity	Location
Metal alignment snubbers	1 Set	One at midspan of hinge stile/jamb

Test specimens #2, #4 and #5

Description	Quantity	Location
Metal alignment snubbers	2 Sets	Hinge stile/jamb, one each at 12" above and below midspan (each side).
Metal interlock snubbers	1 Set	One at midspan of hinge stile/jamb

Test specimen #7

Description	Quantity	Location
Metal alignment snubbers	2 Sets	Hinge stile/jamb, one each at 14-1/2" above and below midspan (each side).
Metal interlock snubbers	1 Set	One at midspan of hinge stile/jamb



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5.0 Test Specimen Description: (Continued)

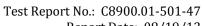
5.8 Reinforcement:

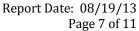
Drawing Number	Location	Material	
10202004	Sill (2)	Extruded aluminum	
10202004	All test specimens	Extruded ardifficing	
10500006	Stiles	Extruded aluminum	
10500000	Test specimens #3, #4 and #7		
10500006	Stiles and rails	Extruded aluminum	
10300000	Test specimen #5	Extruded aluminum	

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 to the wood buck with a silicone sealant.

 Anchor Location
Nominally spaced at 12" on center, and starting 2" in from each corner.



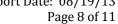




7.0 Test Results: The temperature during testing was 21.6 °C (71°F). The results are tabulated as follows:

Test Specimen #1:

Test Specimen #1:				
Title of Test	Results	Allowed	Note	
	Initiate motion:			
	26 N (6 lbf)	Report Only.		
Operating Force,	Maintain motion:			
per ASTM E 2068	13 N (3 lbf)	30 N (7 lbf) max.		
	Locks:	, ,		
	9 N (2 lbf)	100 N (22.5 lbf) max.		
Air Leakage,				
Infiltration per ASTM E 283	0.1 L/s/m ²	1.5 L/s/m ²		
at 75 Pa (1.57 psf)	(0.01 cfm/ft^2)	$(0.3 \text{ cfm/ft}^2) \text{ max.}$	1	
Water Penetration,				
per ASTM E 547	N/A	N/A	2	
Uniform Load Deflection,				
per ASTM E 330				
taken at the top rail				
+720 Pa (+15.04 psf)	1.0 mm (0.04")			
-720 Pa (-15.04 psf)	3.5mm (0.14")	Report Only.	3, 5, 6	
Uniform Load Structural,				
per ASTM E 330				
taken at the top rail				
+1080 Pa (+22.56 psf)	<0.3 mm (<0.01")	3.5 mm (0.14") max.		
-1080 Pa (-22.56 psf)	0.5 mm (0.02")	3.5 mm (0.14") max.	4, 5	
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)	1.3mm (0.05")	17.5 mm (0.69") max.		
Distributed Load				
300 Pa (6.27 psf)	Pass	No damage	7	
0	ptional Performance			
Water Penetration,				
per ASTM E 547at				
580 Pa (12.12 psf)	Pass	No leakage		





7.0 Test Results: (Continued)

Test Specimen #2:

rest specimen #2.	1		1
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)	3.0 mm (0.12")		
-1680 Pa (-35.09 psf)	7.3 mm (0.29")	Report Only	3, 5, 6
Uniform Load Structural,			
per ASTM E 330			
taken at the top rail			
+2520 Pa (+52.63 psf)	0.3 mm (0.01")	3.5 mm (0.14") max.	
-2520 Pa (-52.63 psf)	0.8 mm (0.03")	3.5 mm (0.14") max.	4, 5

Test Specimen #3:

1 cot objectified in o				
Title of Test	Results	Allowed	Note	
Uniform Load Deflection,				
per ASTM E 330				
taken at the top rail				
+1200 Pa (+25.06 psf)	1.0 mm (0.04")			
-1200 Pa (-25.06 psf)	5.8 mm (0.23")	Report Only	3, 5, 6	
Uniform Load Structural,				
per ASTM E 330				
taken at the top rail				
+1800 Pa (+37.59 psf)	<0.3 mm (<0.01")	3.5 mm (0.14") max.		
-1800 Pa (-37.59 psf)	1.3 mm (0.05")	3.5 mm (0.14") max.	4, 5	

Test Specimen #4:

1 est specimen #4.				
Title of Test	Title of Test Results		Note	
C				
Uniform Load Deflection,				
per ASTM E 330				
taken at the top rail				
+2160 Pa (+45.11 psf)	2.5 mm (0.10")			
-2160 Pa (-45.11 psf)	11.4 mm (0.45")	Report Only	3, 5, 6	
Uniform Load Structural,				
per ASTM E 330				
taken at the top rail				
+3240 Pa (+67.67 psf)	0.8 mm (0.03")	3.5 mm (0.14") max.		
-3240 Pa (-67.67 psf)	1.0 mm (0.04")	3.5 mm (0.14") max.	4, 5	





7.0 Test Results: (Continued)

Test Specimen #5:

rest opecimen no.				
Title of Test	Title of Test Results		Note	
Optional Performance				
Uniform Load Deflection,				
per ASTM E 330				
taken at the top rail				
+2400 Pa (+50.13 psf)	2.5 mm (0.10")			
-2400 Pa (-50.13 psf)	9.5 mm (0.38")	Report Only	3, 5, 6	
Uniform Load Structural,				
per ASTM E 330				
taken at the top rail				
+3600 Pa (+75.19 psf)	0.3 mm (0.01")	3.5 mm (0.14") max.		
-3600 Pa (-75.19 psf)	1.0 mm (0.04")	3.5 mm (0.14") max.	4, 5	

Test Specimen #6:

Title of Test	Results	Allowed	Note
	Initiate motion:		
	31 N (7 lbf)	Report Only.	
Operating Force,	Maintain motion:		
per ASTM E 2068	9 N (2 lbf)	30 N (7 lbf) max.	
	Locks:		
	9 N (2 lbf)	100 N (22.5 lbf) max.	
Air Leakage,			
Infiltration per ASTM E 283	0.1 L/s/m ²	1.5 L/s/m ²	
at 75 Pa (1.57 psf)	(0.01 cfm/ft ²)	$(0.3 \text{ cfm/ft}^2) \text{ max.}$	1
C	ptional Performance		
Water Penetration,			
per ASTM E 547at			
580 Pa (12.12 psf)	Pass	No leakage	
Uniform Load Deflection,			
per ASTM E 330			
taken at the top rail			
+2400 Pa (+50.13 psf)	0.5 mm (0.02")		
-2400 Pa (-50.13 psf)	1.5 mm (0.06")	Report Only	3, 5, 6
Uniform Load Structural,			
per ASTM E 330			
taken at the top rail			
+3600 Pa (+75.19 psf)	<0.3 mm (<0.01")	2.3 mm (0.09") max.	
-3600 Pa (-75.19 psf)	0.5 mm (0.02")	2.3 mm (0.09") max.	4, 5



7.0 Test Results: (Continued)

Test Specimen #7:

Title of Test	Results	Allowed	Note	
Uniform Load Deflection,				
per ASTM E 330				
taken at the top rail				
+3840 Pa (+80.20 psf)	+80.20 psf) 1.3 mm (0.05")			
-3840 Pa (-80.20 psf)	1.8 mm (0.07")	Report Only	3, 5, 6	
Uniform Load Structural,				
per ASTM E 330				
taken at the top rail				
+5760 Pa (+120.30 psf)	0.8 mm (0.03")	2.3 mm (0.09") max.		
-5760 Pa (-120.30 psf)	0.8 mm (0.03")	2.3 mm (0.09") max.	4, 5	

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

Note 3: 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 4: Loads were held for 10 seconds.

Note 5: 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 6: Loads were held for 52 seconds

Note 7: The Distributed load test was performed at an LC performance class.



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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.

James P. Grippo Technician

Lynn George **Director- Regional Operations**

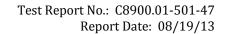
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Attachments (pages): This report is complete only when all attachments listed are included.

Appendix-A: Alteration Addendum (1)

Appendix-B: Drawings (7).

This report produced from controlled document template ATI 00438, issued 01/31/12.

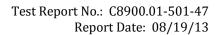




Appendix A

Alteration Addendum

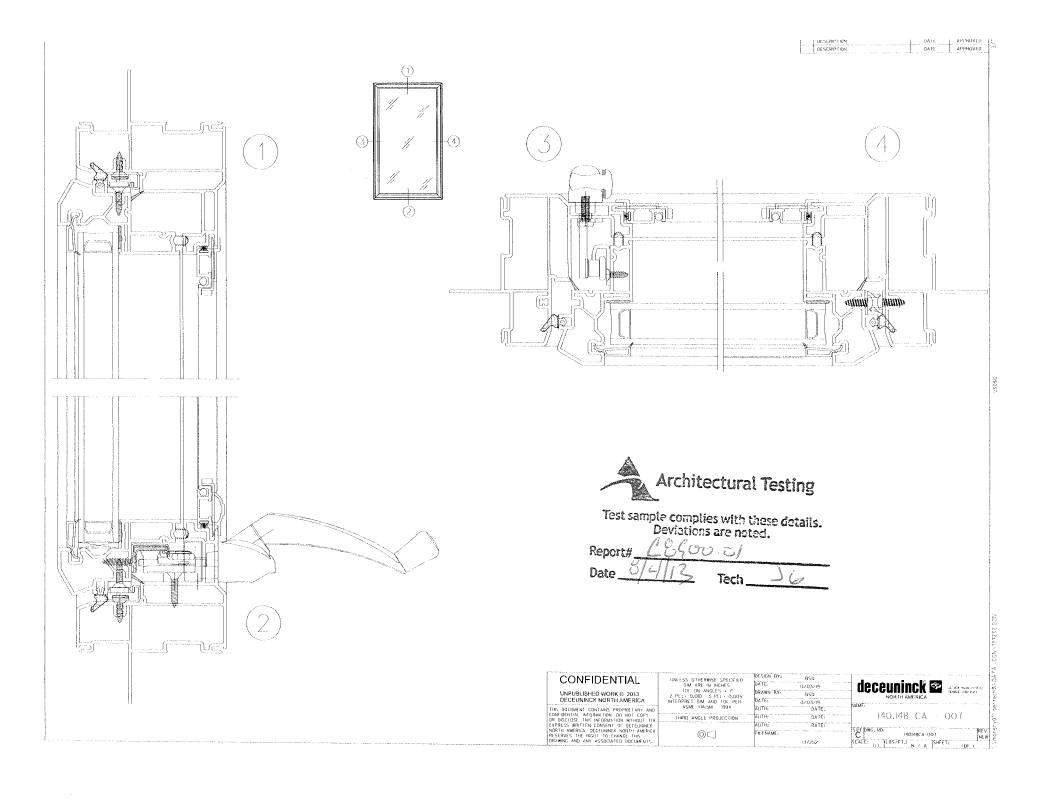
Note: No alterations were required.





Appendix B

Drawings



deceuninck 140.148 CA - 007 Casement DECEUNINCK MODEL NO. Fastener Material Type Qty Size Length Head ex. Vinyl, Alum, ex. Pan, Flat, ex. Rivot / ex. #4, #6, Composite Oval, etc. Part No. Screw #8, etc. Vendor Frame Head 10008065 Deceuninck Vinyl Frame Adapter - Head (if applicable) 10008065 Jamb Deceuninck Vinvl 10008065 Sill Deceuninck Vinyl Frame Adapter - Sill (if applicable) Sash 10005432 Top Rail Deceuninck Vinvl Lock Stile 10005432 Deceuninck Vinyl Hinge Stile 10005432 Vinyl Deceuninck 10005432 **Bottom Rail** Vinyl Deceuninck Glazing Bead 10005470 Deceuninck Vinyl Hardware Glass Thickness 7/8" Glass Operator Hinge Keeper Lock Handle Tie Bar or Lock Bar Guides Snubber Reinforcement (if applicable) 10202004 Frame Mill Alum Sash (large hollow) 10500006 Mill Alum. Sash (small hollow) 10300091 Mill Alum. Frame Sash (large hollow) 10000671 Innergy Sash (small hollow) 10000672 Innergy

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.

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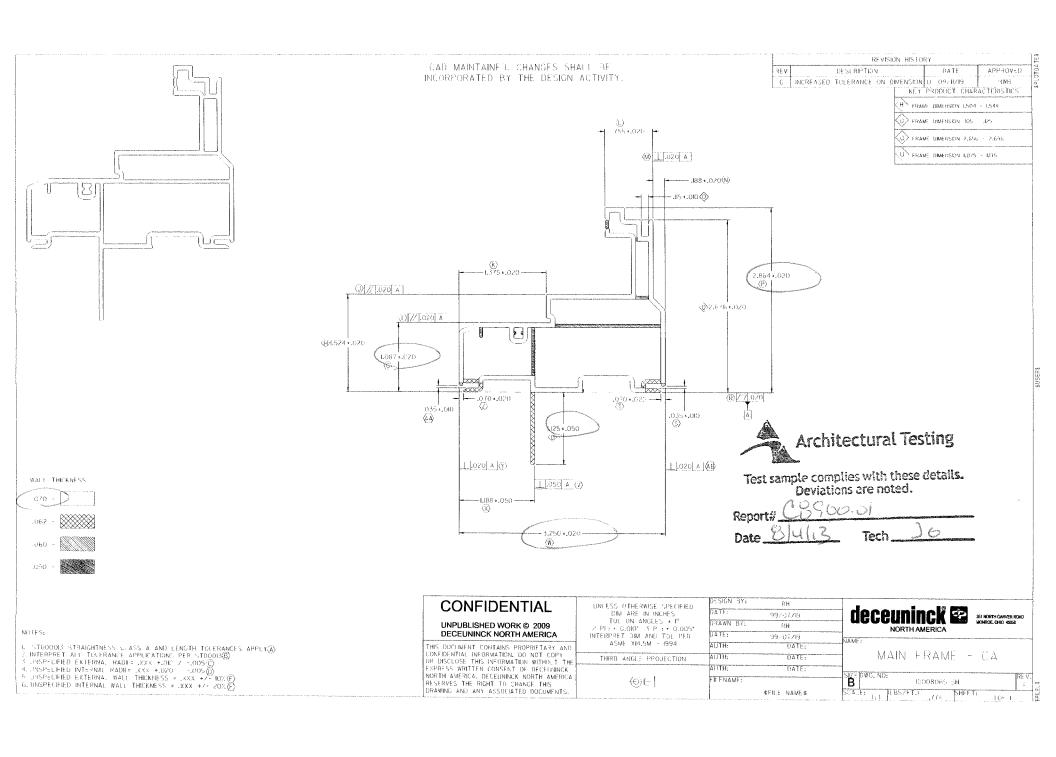
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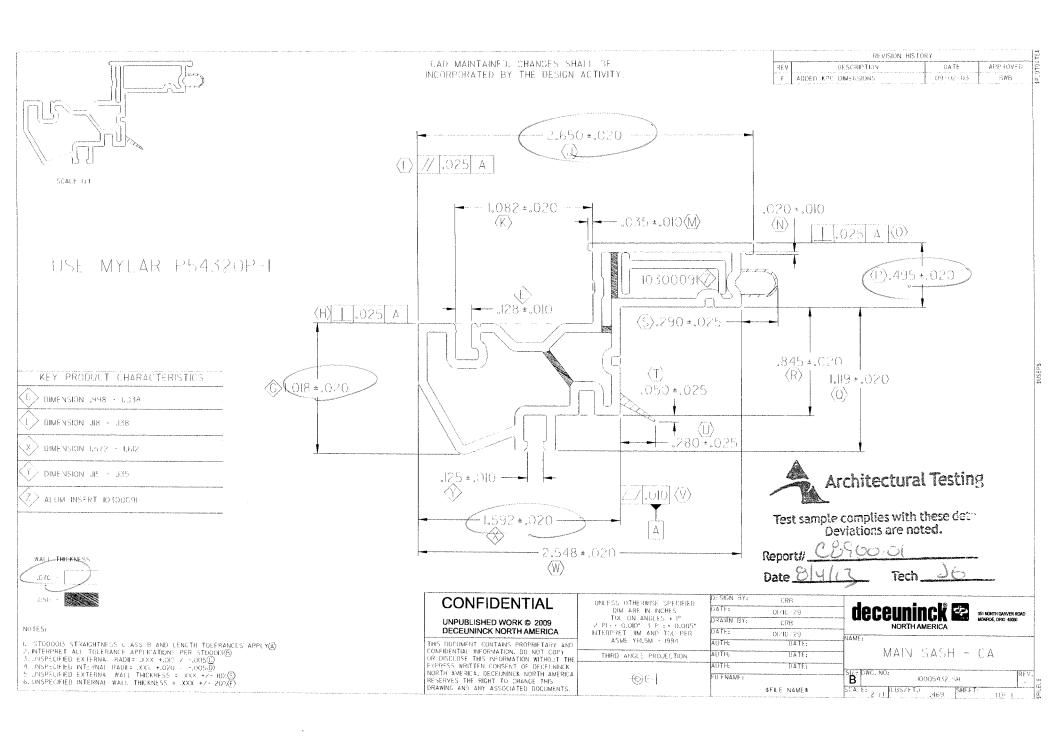
Architectural Testing

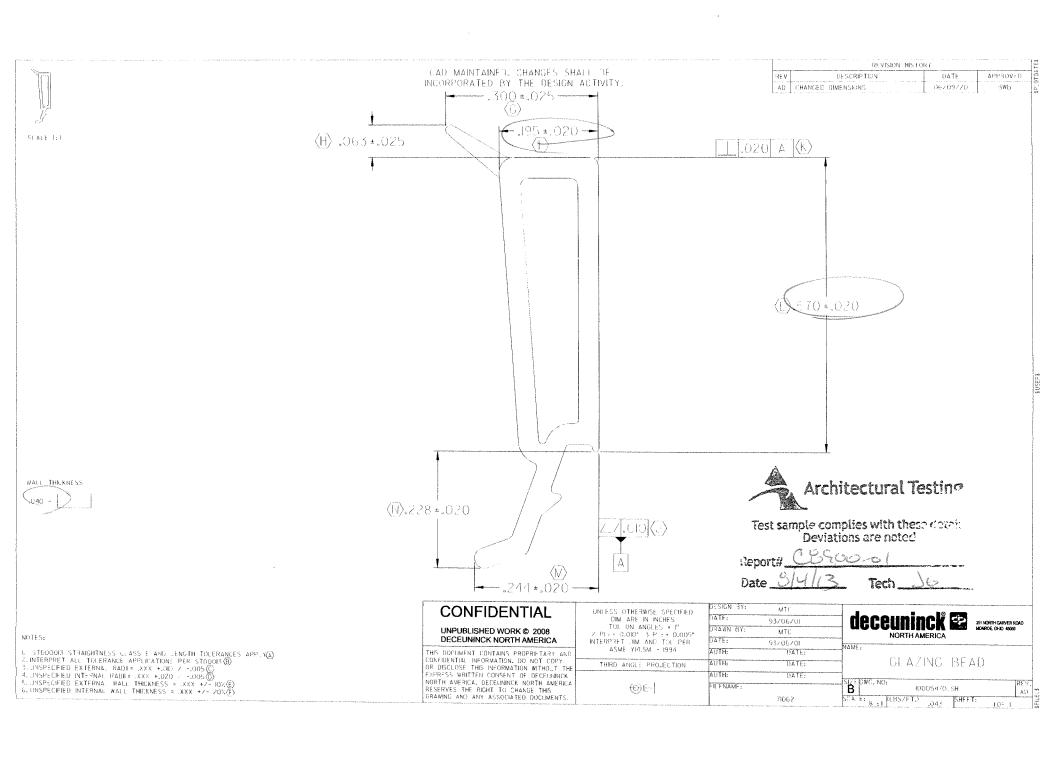
Test sample complies with these details.
Deviations are noted.

Report#_

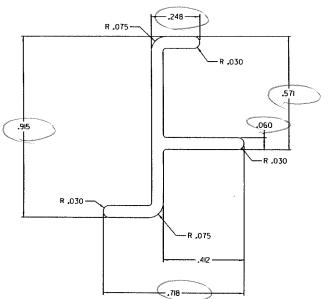
Date







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



ALL UNSPECIFIED RADII SHALL BE .015"



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Date <u>5/41/3</u> To

Tech______

MATERIAL: 6063 - T5 ALUMINUM

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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: JG₩ DATE: 06/12/04 AUTH: DATE: AUTH: DATE: AUTH: DATE: FILENAME: 10500006.dgn

deceuninck (E)
NORTH AMERICA

351 NORTH GARVER ROAD MONROE, OHIO 45050

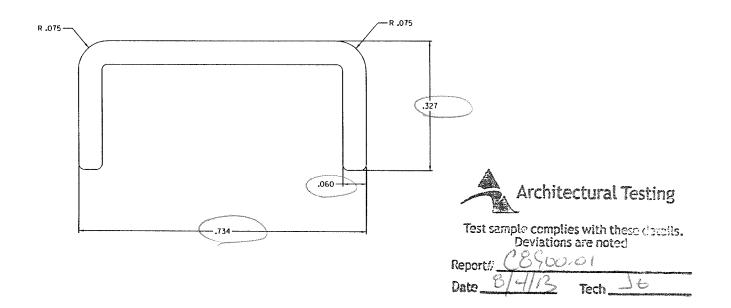
NAME:

CASEMENT REINFORCEMENT

 DOUBY 8 NALUMINUM N 1050000

ALL UNSPECIED RADII SHALL BE .015"

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



(5.11) 6063-T5 ALUMINUM

CONFIDENTIAL	UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES	DESIGN BY: RH DATE: 99/07/26	deceuninck ss North Garver ROAD MORROE, CHIO 4850
UNPUBLISHED WORK © 2006 DECEUNINCK NORTH AMERICA	TOL ON ANGLES * 1° 2 PL: * 0.010" 3 PL: * 0.005" INTERPRET DIM AND TOL PER	DRAWN BY: JGM DATE: 06/12/04	NORTH AMERICA
THIS DOCUMENT CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION. DO NOT COPY OR DISCLOSE THIS INFORMATION WITHOUT THE	ASME YI4,5M - 1994 THIRD ANGLE PROJECTION	AUTH: DATE: AUTH: DATE:	NAME: CASEMENT FRAME REINFORCEMENT
EXPRESS WRITTEN CONSENT OF DECEDINICK NORTH AMERICA. DECEDINICK NORTH AMERICA. RESERVES THE RIGHT TO CHANGE THIS DRAWING AND ANY ASSOCIATED DOCUMENTS.	⊕ □	AUTH: DATE: FILENAME: 10202004.dgn	SIZE DWG. NO: 10202004 REV. SCALE: 8 :1 (LBS/FT.) .087 SHEET: 10F 1