



TEST REPORT

Report No.: E2206.01-401-44

Rendered to:

DECO-FLASH
Tampa, Florida

PRODUCT TYPE: Flashing System
SERIES/MODEL: DECO-FLASH

Title	Summary of Results	
	Test Specimen #1	Test Specimen #2
Design Pressure	±2394 Pa (±50.00 psf)	±2394 Pa (±50.00 psf)
Water Penetration Resistance Test Pressure	359 Pa (7.50 psf)	359 Pa (7.50 psf)
Uniform Load Structural Test Pressure	±3591 Pa (±75.00 psf)	±3591 Pa (±75.00 psf)

This report contains in its entirety:

- Cover Page:** 1 page
- Report Body:** 7 pages
- Photographs:** 1 page
- Drawings:** 1 page

Reference must be made to Report No. E2206.01-401-44, dated 01/22/15 for complete test specimen description and detailed test results.

1.0 Report Issued To: DECO-FLASH
1607 N. 22nd Street
Tampa, FL 33605

2.0 Test Laboratory: Architectural Testing, Inc.
2250 Massaro Blvd.
Tampa, Florida 33619
(813)628-4300

3.0 Project Summary:

3.1 Product Type: Extruded PVC Flashing System

3.2 Series/Model: DECO-FLASH

3.3 Compliance Statement: Results obtained are tested values and were secured by using the designated test method(s). Test specimen description and results are reported herein.

3.4 Test Dates: 10/30/2014

3.5 Test Record Retention End Date: All test records for this report will be retained until October 30, 2018.

3.6 Test Location: Architectural Testing, Inc. test facility in Tampa, Florida.

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>
Jason Holsopple	DECO-FLASH
Wilferon Simbert	Architectural Testing, Inc.
Shawn G. Collins, P.E.	Architectural Testing, Inc.

4.0 Test Method(s):

ASTM E 330-02, *Test Method for Structural Performance of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference.*

ASTM E 331-00, *Test Method for Water Penetration of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference.*

5.0 Test Specimen Description:

5.1 Product Sizes:

Test Specimen #1:

Overall Area: 3.3 m ² (36.0 ft ²)	Width		Height	
	millimeters	inches	millimeters	inches
Overall size Framed wall	1829	72	1829	72
Overall size Single Hung window	570	23-1/2	851	33-1/2

Test Specimen #2:

Overall Area: 3.3 m ² (36.0 ft ²)	Width		Height	
	millimeters	inches	millimeters	inches
Overall size Framed wall	1829	72	1829	72
Overall size Single Hung window	570	23-1/2	851	33-1/2

5.0 Test Specimen Description: (Continued)

The following descriptions apply to all specimens unless otherwise noted.

5.2 Frame Construction:

DECO-FLASH

Frame Member	Material	Description
Head/jambs/sill	Vinyl	Extruded (Part # 5985P)

	Joinery Type	Detail
All corners	Mitered	Thermally welded

Single Hung Window

Frame Member	Material	Description
Head, sill, and jambs	Vinyl	Extruded
Fixed meeting rail	Vinyl	Extruded
Snap-in sill	Aluminum	Extruded snap-in sill

	Joinery Type	Detail
All corners	Mitered	Thermally welded
Fixed meeting rail	Coped and butted	A PVC end cap was secured to the fixed meeting rail with three #6 x 2" long flat head screws and secured to the jambs with three #6 x 3/4" long flat head screws
Snap-in sill	N/A	Snap-fit to the sill and sealed with adhesive tape with silicone at each end

5.3 Sash Construction:

Sash Member	Material	Description
Rails and stiles	Vinyl	Extruded

	Joinery Type	Detail
All corners	Mitered	Thermoplastic weld

5.0 Test Specimen Description: (Continued)

5.4 Weatherstripping:

Description	Quantity	Location
0.187" backed by 0.240" high polypile with center fin	1 Row	Sill leg, interior meeting rail, and sash stiles
0.187" backed by 3/4" long with 1/8" diameter foam-filled bulb	1 Row	Fixed meeting rail
0.187" backed by 0.310" high polypile with center fin	1 Row	Sash stiles
0.187" backed by 3/4" long with 1/4" diameter foam-filled bulb with single leaf	1 Row	Bottom rail

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	Metal reinforced butyl	1/8" clear annealed	1/8" clear annealed	Interior glazed against silicone and secured with PVC snap-in glazing beads

5.6 Drainage: A sloped sill was utilized.

5.7 Hardware:

Description	Quantity	Location
Surface mount tilt latch with J-hook	2	Ends of interior meeting rail
Constant force balance	2	One in each jamb
Metal tilt pins	2	Ends of bottom rail
Metal lock with adjacent keeper	1	Midspan of the meeting rail

5.8 Reinforcement: Reinforcement was utilized in the stiles of the operable sash.

5.9 Screen Construction: No Screen was utilized.

6.0 Installation:

The specimen was installed into a Southern Yellow Pine test framed wall. The rough opening allowed for a 1/4" shim space. The exterior perimeter of the window was sealed with sealant.

The test wall was constructed of 2x4', framed 16" on center. The test wall utilized a single top and single bottom plate. The wall was sheathed with 1/2" plywood. Further, a air, water barrier was applied to the test wall. The DECO-FLASH was set into the rough opening and mechanically fastened to the test wall as indicated in the tables below. A 6" wide piece of flashing tape was installed over the head flange of the DECO-FLASH and extended 6" beyond the unit on each side.

Test Specimen #2 also incorporated fiber-cement lap siding that was secured to the test wall in accordance with the standard installation practices for Fiber-Cement Siding.

Window to DECO-FLASH

Location	Anchor Description	Anchor Location
Head	#10 x 2-1/2 flathead screw	4" from each corner, one at midspan
Jambs	#10 x 2-1/2 flathead screw	4" from each corner and one 4" below meeting rail

DECO-FLASH to test buck

Location	Anchor Description	Anchor Location
Head	#8 x 1-1/4" wafer head screw	2" from each corner and approximately 10" thereafter through vinyl fin (5/8" from edge of fin)
Jambs	#8 x 1-1/4" wafer head screw	2" from each corner and approximately 10" thereafter through vinyl fin (5/8" from edge of fin)

7.0 Test Results: The temperature during testing was 28.5°C (83.3°F). The results are tabulated as follows:

Test Specimen #1: (Un-cladded Unit)

Title of Test	Results	Allowed	Note
Water Penetration, ASTM E 331 at 359 Pa (7.50 psf)	Pass	No leakage	1
Uniform Load Deflection, per ASTM E 330 +2394 Pa (+50.00 psf) -2394 Pa (-50.00 psf)	No damage	No damage	2, 3
Uniform Load Structural, per ASTM E 330 +3591 Pa (+75.00 psf) -3591 Pa (-75.00 psf)	No damage	No damage	2, 3

Test Specimen #2: (Cladded Unit)

Title of Test	Results	Allowed	Note
Water Penetration, ASTM E 331 at 359 Pa (7.50 psf)	Pass	No leakage	1
Uniform Load Deflection, per ASTM E 330 +2394 Pa (+50.00 psf) -2394 Pa (-50.00 psf)	No damage	No damage	2, 3
Uniform Load Structural, per ASTM E 330 +3591 Pa (+75.00 psf) -3591 Pa (-75.00 psf)	No damage	No damage	2, 3

General Note: All testing was performed in accordance with the referenced standard(s).

Note 1: Without insect screen.

Note 2: Loads were held for 10 seconds.

Note 3: 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.

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.

D. Scott Parker
Laboratory Manager

Shawn G. Collins, P.E.
Manager - Regional Operations

DSP/SGC:jah

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

Appendix-A: Photographs (1)

Appendix-B: Drawings (1)

Appendix A
Photographs

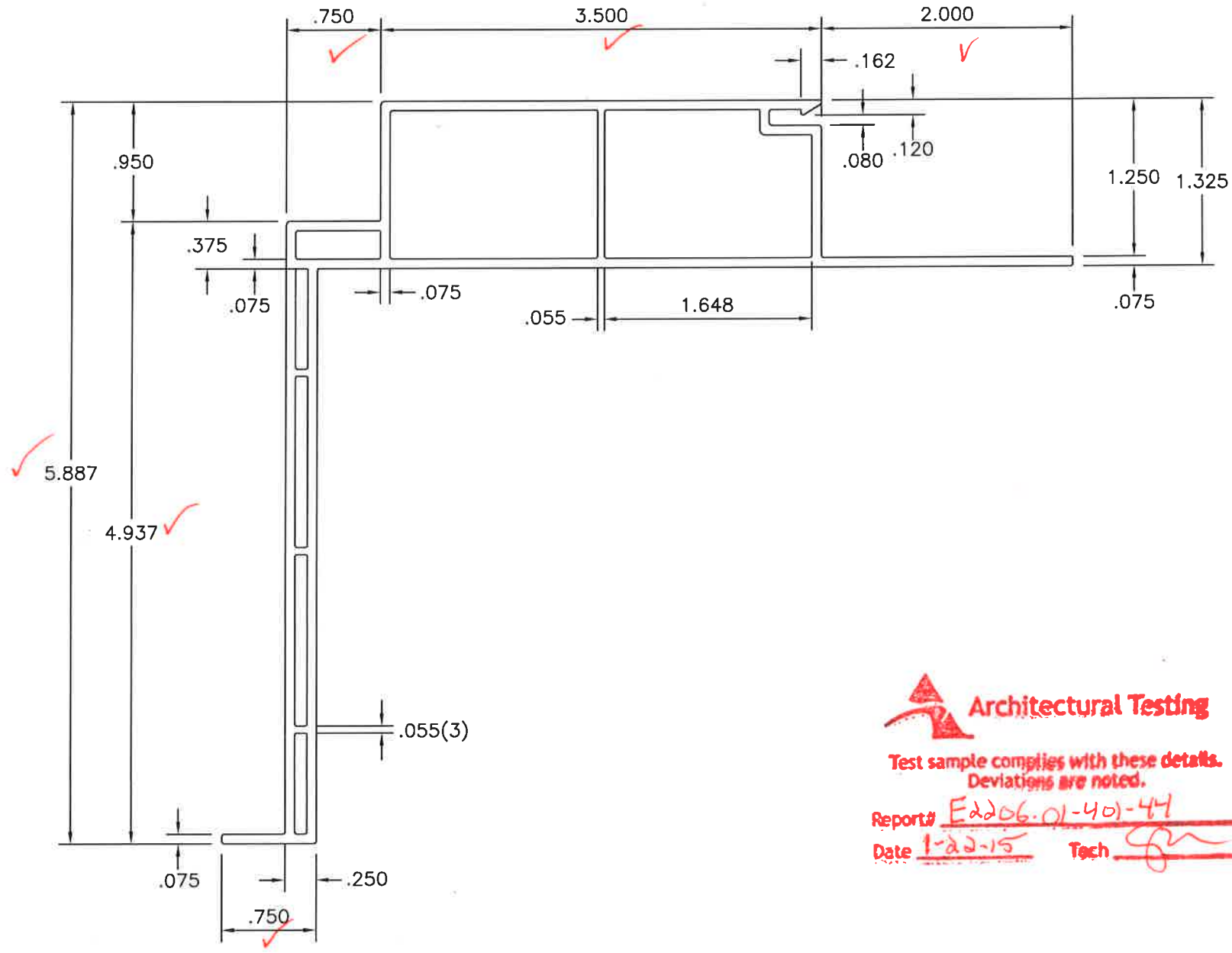


Photo No. 1
Typical DECO-FLASH Sample

Appendix B

Drawings

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Architectural Testing
 Test sample complies with these details.
 Deviations are noted.
 Report# E2206.01-40-44
 Date 1-22-15 Tech [Signature]

MATERIAL: RIGID PVC
 TYP. WALL THKNS: .075 +/-10%
 UNSPECIFIED CORNER RADIUS: .015R
 ESTIMATED AREA: 1.823
 DRAWN BY: KTS DATE: 2-20-14
 SCALE: 1-1 PLOT SIZE: A


 Custom Window Extrusions
 One Contact Place
 Delmont, PA 15626

DATE	REVISION	INIT

DESCRIPTION 5985 FLASHING

DRAWING NO. 5985P