



Architectural Testing

ANSI/AAMA/WDMA STRUCTURAL TEST REPORT

Rendered to:

HURD MILLWORK COMPANY, INC.
520 South Whelen Avenue
Medford, Wisconsin 54451

Report No: 06-30222.01
Test Dates: 06/15/01
Report Date: 06/22/01
Expiration Date: 06/15/05

Series/Model: DH1-PW-AL-WD

Type: Aluminum Clad Double Hung Picture Window

Test Procedure:

The test specimen was evaluated in accordance with ANSI/AAMA/WDMA 101/I.S. 2-97, "Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors," for conformance to the Class F-C30 70 x 69 performance requirements, as well as optional structural test of 75 psf positive and negative.

Test Specimen Description:

Overall Size: 69 -1/2" wide by 68 -5/8" high

Sash Size: 67 -3/4" wide by 67 -5/8" high

Overall Area: 33.12 ft²

Finish: Exterior was white aluminum cladding, and the interior was natural wood.

Frame Construction: The frame sill utilized molded pine sections, the head and vertical jambs consisted of timber-strand lumber. The corners were dadoed, sealed with silicone and were secured with two (2) 1/2" by 2" staples per corner. Wood interior liners were employed and were secured to the frame with 1/8" by 1 -1/8" staples spaced 8" to 10" on center. The wood sill liner utilized a continuous seal of silicone full length of sill. A vinyl frost barrier was applied at the sill. The frame utilized extruded aluminum cladding which employed mitered, sealed, corner keyed and foam gasket construction. The mitered corners also utilized one (1) #6 by 5/8" screw per corner. Frame cladding is snap fit and secured with 1/8" by 1/2" staples spaced approximately 8" to 10" on center. Aluminum filler was utilized at the head and jambs secured with 1/8" by 1/2" staples spaced approximately 8" to 10" on center.

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Test Specimen Description: (con't)

Weatherstripping:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Sanoprene bulb	1 row	Aluminum filler bar at head and both verticals
Foam filled bulb	1 row	Sash at bottom rail

Sash Construction: The sash members consisted of molded pine sections with roll formed aluminum cladding at the exterior. The corners were of mortise and tenon construction and were secured with two (2) 1 -1/8" T-nails per corner. The roll formed aluminum cladding was mitered, lapped and snap-fit into the wood sash members. The sash was fasten to the frame with 2" screws from the back side of the frame into the sash. Fastener screws were approximately 8" from corners and spaced 12" on center.

Glazing: The inoperable sash was glazed with nominal 3/4" thick insulating glass consisting of two sheets of 3/16" clear annealed glass and a 3/8" thick Intercept spacer. The glass was set from the interior against a continuous silicone back bed and wood glazing beads at the interior were secured with 3/4" wire brads located 6" to 8" on center.

Installation: The test specimen was installed into a nominal 2 x 6 wood test wall. The interior side of the applied nailing flange was sealed to the wood buck and secured with galvanized 2" long roofing nails, spaced approximately 4" on center.

Test Results:

<u>Paragraph</u>	<u>Title of Test</u>	<u>Results</u>	<u>Allowed</u>
2.1.2	Air Infiltration @ 1.57 psf @ 6.24 psf	<0.01 cfm/ft ² <0.01 cfm/ft ²	0.30 cfm/ft ² -----
<i>The test specimen meets the performance levels specified in ANSI/AAMA/WDMA 101/I.S.2-97 for a F-C30 window, for air infiltration.</i>			
2.1.3	Water Resistance ASTM E 547-93 @ 4.50 psf	No entry	No entry @ 4.50 psf



Test Results: (con't)

2.1.4.2	Uniform Load Structural ASTM E 330-96 @ 45.00 psf (positive)	No damage	No damage
	@ 45.00 psf (negative)	No damage	No damage
2.1.8	Forced Entry Resistance ASTM F 588-97 Grade 10	No entry	No entry

Optional Performance:

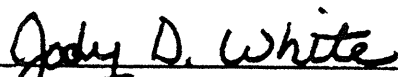
<u>Paragraph</u>	<u>Title of Test</u>	<u>Results</u>	<u>Allowed</u>
4.4.2	Uniform Load Structural ASTM E 330-96 @ 75.00 psf (positive)	No damage	No damage
	@ 75.00 psf (negative)	No damage	No damage

Design Pressure Rating: For use in locations adhering to the S.B.C.C.I., S.F.B.C., S.F.B.C. Broward Edition, and where the pressure requirements as determined by ASCE 7 minimum design loads for buildings and other structures does not exceed design pressure ratings listed above.


Detailed drawings and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product which may only be granted by the certification program administrator.

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