



Architectural Testing

ANSI/AAMA/WDMA STRUCTURAL TEST REPORT

Rendered to:

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

ATI Report No: 06-30288.01
Test Dates: 10/22/01
Report Date: 10/24/01
Expiration Date: 10/22/05

Series/Model: Monument Vinyl Premium Sliding Window (XO)

Type: Vinyl Horizontal Half Slide 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 HS-LC25* 77 x 35** performance requirements.

Test Specimen Description:

Overall Size: 76 -1/2" wide by 35 -1/4" high

Sash Size: 37 -3/8" wide by 32 -3/4" high

Overall Area: 18.73 ft²

Finish: All vinyl was white.

Glazing: The sash was glazed using nominal 3/4" thick sealed insulating glass composed of two sheets of double strength clear annealed glass and a 1/2" thick aluminum spacer. The glass was set from the exterior against a closed cell foam glazing tape, with silicone backbed at the tape corners, and vinyl glazing beads were employed at the exterior.



Test Specimen Description: (con't)

Weatherstripping:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
0.250" backed by 0.187" high pile w/center fin	1 row	Operator sash exterior perimeter
0.250" backed by 0.187" high pile w/center fin	1 row	Fixed sash meeting stile
1/4" Backer foam	1 row	Head and sill and side jamb

Frame/Sash Construction: The frame and sash members were mitered and employed welded corner construction. The fixed meeting stile was secured to the frame head and sill at each end with two screws.

Reinforcements: The fixed meeting stile was reinforced with an aluminum extrusion (refer to die number HR-441-3).

Hardware:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Brass roller w/nylon housing	4	Sash bottom rail, two per end
Metal sweep lock	1	Sash meeting stiles, at center
PVC anti-lift out brackets	2	Head track, 2" and 16" from frame.

Drainage:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
3/8" by 1/4" weep hole	2	Sill exterior and inner cavity leg, 1-1/2" from each end
5/8" by 1/4" weep hole	2	Sill to hollow below, 3" from each jamb
3/8" by 1/4" weep hole	2	Fixed lite 3" from end of sash



Test Specimen Description: (con't)

Screen Construction: The screen was roll-formed aluminum with plastic corner keys. Fiberglass screen cloth was attached to the frame with rubber spline.

Installation: The window was installed into a nominal 2" by 6" wood buck. The interior side of the integral nailing flange was sealed to the wood surround with silicone as well as the nail heads, and secured with 2" galvanized roofing nails spaced approximately 4" on center.

Test Results:

<u>Paragraph</u>	<u>Title of Test</u>	<u>Results</u>	<u>Allowed</u>
2.2.2.5.1	Operating Force Operator Sash	10 lbs.	25 lbs.
2.1.2	Air Infiltration ASTM E 283-91 @ 1.57 psf @ 6.24 psf	0.07 cfm/ft ² 0.21 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 HS-LC25* window, for air infiltration.</i>			
2.1.3	Water Resistance ASTM E 547-96 with and without screen @ 3.75 psf	No entry	No entry @ 3.75 psf
2.1.4.2	Uniform Load Structural ASTM E 330-97 Meeting stile @ 37.50 psf (positive) @ 37.50 psf (negative)	0.010" <0.001"	0.4% of L = 0.130" 0.4% of L = 0.130"
2.2.2.5.2	Deglazing Test ASTM E 987-88 Left stile @ 70 lbs. Right stile @ 70 lbs. Top rail @ 50 lbs. Bottom rail @ 50 lbs.	0.06"/12% 0.06"/12% 0.06"/12% 0.06"/12%	0.50"/100% 0.50"/100% 0.50"/100% 0.50"/100%
2.1.7	Welded Corner Test	Meets as stated	Meets as stated

Test Specimen Description: (con't)

<u>Paragraph</u>	<u>Title of Test</u>	<u>Results</u>	<u>Allowed</u>
2.1.8	Forced Entry Resistance ASTM F 588-97 Grade 10	No entry	No entry @ Grade 10

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, representative samples of the test specimen, 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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Wanda L. Matis
Test Technician



Jody D. White
Project Manager

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