Architectural Testing

ANSI/AAMA/WDMA STRUCTURAL TEST REPORT

Rendered to:

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

ATI Report No:	06-30224.01
Test Dates:	06/21/01
and:	06/29/01
and:	07/09/01
Report Date:	07/13/01
Expiration Date:	06/21/05

Series/Model: 2700 Vinyl Builders Single Sliding Window (OX)

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 60** performance requirements.

Test Specimen Description:

Overall Size: 76 -1/2" wide by 59 -1/2" high

Sash Size: 37 -1/2" wide by 57 -3/8" high

Overall Area: 31.61 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.

5906 Saxon Avenue
Schofield, WI 54476
phone: 715.241.8624
fax: 715.241.8425
www.testati.com

Test Specimen Description: (con't)

Weatherstripping:

Description	Quantity	Location
0.187" backed by 0.270" high pile w/center fin	1 row	Outer perimeter of sash

Frame/Sash Construction: The frame and sash members were mitered and employed welded corner construction.

Reinforcements: Fixed meeting rail was reinforced with aluminum extrusion. (Refer to drawing number 7255.1).

Hardware:

Description	Quantity	Location
Sash lock	2	Vertical meeting style, 6" from tip of sash ends
Brass roller w/ nylon housing	4	Sash bottom rail, two per end

Drainage:

Description	Quantity	Location
1/4" by 3/8" slot	2	Exterior face of frame sill, 1-1/2" from ends and exterior fixed sill track, 3" from ends
1/4" by 5/8" slot	2	Interior sill track, 3" from ends

Installation: The window was installed into a nominal 2" by 8" wood buck. The interior side of the integral nailing flange was sealed to the wood surround, as well as the nail head, and secured with 2" galvanized roofing nails spaced approximately 4" on center.

Test Results:

Paragraph	Title of Test	Results	Allowed
2.2.2.5.1	Operating Force Operator Sash	11 lbs.	25 lbs.

Test Results: (con't)

Paragraph	Title of Test	Results	Allowed
2.1.2	Air Infiltration ASTM E 283-91		
	@ 1.57 psf	0.07 cfm/ft²	0.30 cfm/ft²
	@ 6.24 psf	0.21 cfm/ft²	----------
	The test specimen meets the performance levels specified in ANSI/ AAMA/WDMA 101/I.S.2-97 for a HS-LC30 window, for air infiltration.		
2.1.3	Water Resistance ASTM E 547-93		
	@ 3.75 psf	No entry	No entry @ 3.75 psf
2.1.4.2	Uniform Load Structural ASTM E 330-96 Meeting rail		
	@ 37.50 psf (positive)	0.013"	0.4% of L = 0.232"
	@ 37.50 psf (negative)	0.220"	0.4% of L = 0.232"
2.2.2.5.2	Deglazing Test ASTM E 987-88		
	Left stile @ 70 lbs.	0.06"/12%	0.50"/100%
	Right stile @ 70 lbs.	0.06"/12%	0.50"/100%
	Top rail @ 50 lbs.	0.06"/12%	0.50"/100%
	Bottom rail @ 50 lbs.	0.06"/12%	0.50"/100%
2.1.7	Welded Corner Test	Meets as stated	Meets as stated
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.

ARCHITECTURAL TESTING, INC.

Tim R. Quast
Regional Manager

ARCHITECTURAL TESTING, INC

Jody D. White
Project Manager

06-30224