

**AAMA/NWDA 101/I.S.2-97
TEST REPORT SUMMARY**

Rendered to:

SIMONTON WINDOWS

SERIES/MODEL: 08-08

TYPE: PVC Awning Window

RATING: AP-R45 53 x 36

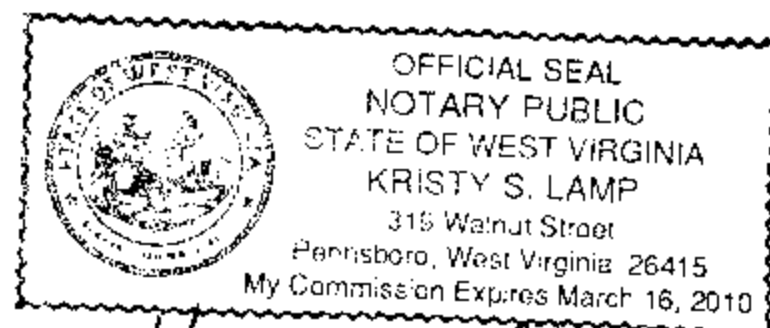
Title of Test	Results
Overall Design Pressure	45.0 psf
Operating Force	N/A
Air Infiltration	.03 cfm/ft ²
Water Resistance	7.5 psf
Structural Test Pressure	67.5 psf
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 05-30070.01 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.

Lynn George/Saw
Lynn George, Project Manager

LG:tjp



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AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to:

SIMONTON WINDOWS
One Cochrane Avenue
Pennsboro, West Virginia 26415-9403

Report No: 05-30070.01
Test Date: 05/17/00
Report Date: 06/02/00
Expiration Date: 05/17/04

Project Summary: Architectural Testing, Inc. (ATI) was contracted by Simonton Windows to witness performance testing on their Series/Model 08-08 Poly Vinyl Chloride (PVC) awning window. The sample tested successfully met the performance requirements for an AP-R45 53 x 36 rating.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors*.

Test Specimen Description:

Series/Model: 08-08

Type: Poly Vinyl Chloride (PVC) Awning Window

Overall Size: 4' 5" wide by 3' 0" high

Sash Size: 4' 3-1/4" wide by 2' 10-1/4" high

Glazing Details: The window was exterior glazed using 3/4" thick sealed insulating glass fabricated with two 3/32" annealed sheets separated by a steel spacer system. The glass was set from the exterior against 1/2" wide glazing tape and secured using snap-fit dual durometer vinyl glazing beads.

Frame Construction: The frame was assembled using mitered and welded corner construction.

Sash Construction: The sash was assembled using mitered and welded corner construction.

Test Specimen Description: (Continued)

Weatherstripping:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Co-extruded 3/8" hollow flexible bulb	1 Row	Perimeter of sash
Co-extruded 1/4" flexible single leaf	1 Row	Exterior perimeter of sash
Co-extruded 1/4" flexible single leaf	1 Row	Interior perimeter of sash

Hardware:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Single arm roto operator	1	Center of sill
19" steel glide bar	1	Right center of bottom rail
Hinge arm system	2	One per jamb at head
Single point lock system	2	One at each jamb, 11" up from the sill
Metal snubber	1	Midspan of top rail and head

Drainage:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
3/16" diameter	2	Bottom rail, 1" from each end

Reinforcement: None.

Installation: The window unit was installed into a 2" x 10" wood buck constructed from treated #2 grade pine and secured through the nailing fin with 1-1/4" drywall screws spaced 4-1/2" o.c. and sealed with silicone caulking. One #8 x 2-1/2" long screw was fastened through each lock bar housing.

Test Results:

The results are tabulated as follows:

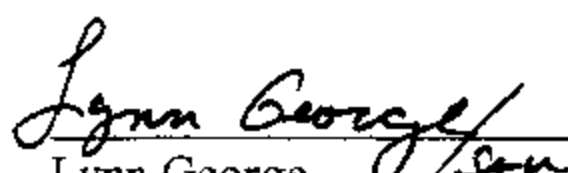
<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.1.2	Air Infiltration (See Note #1) @ 1.57 psf (25 mph)	0.3 cfm/ft ²	0.3 cfm/ft ² max.
<i>Note #1: The tested specimen meets (or exceeds) the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.</i>			
2.1.3	Water Resistance per ASTM E 547 WTP = 2.86 psf	No leakage	No leakage
2.1.4.2	Uniform Load Structural (Bottom Rail) @ 22.5 psf (exterior) @ 22.5 psf (interior)	.008" .011"	.205" max. .205" max.
2.1.7	Welded Corner Test	Meets as stated	Meets as stated
2.1.8	Forced Entry Resistance per ASTM F 588-97 Type: B Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Test B1 thru B3	No entry	No entry
	Lock Manipulation Test	No entry	No entry
2.2.4.5.1	Hardware Load Test	0.625"	3.5" max.

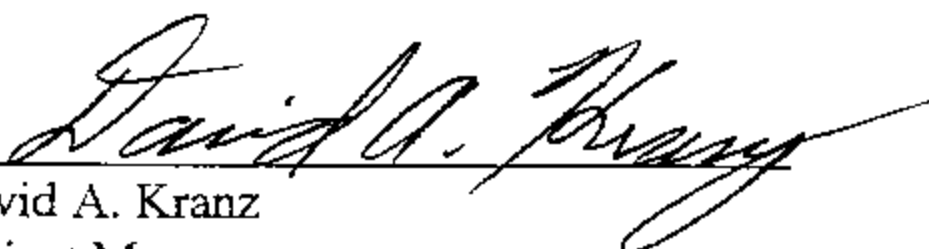
Optional Performance

4.3	Water Resistance per ASTM E 547 WTP = 7.5 psf	No leakage	No leakage
4.4.2	Uniform Load Structural (Bottom Rail) @ 67.5 psf (exterior) @ 67.5 psf (interior)	.007" .148"	.233" max. .233" max.

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.

For ARCHITECTURAL TESTING, INC:


Lynn George
Project Manager


David A. Kranz
Project Manager

LG:tpj
05-30070.01