



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

Rendered to:

SIMONTON WINDOWS

SERIES/MODEL: 08-08


TYPE: PVC Awning Window

RATING: AP-R55 53 x 26

Title of Test	Results
Overall Design Pressure	55.0 psf
Operating Force	N/A
Air Infiltration	0.02 cfm/ft ²
Water Resistance	8.25 psf
Structural Test Pressure	82.5 psf
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 05-30149.01 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.



Lynn George, Project Manager

LG:tjp



Architectural Testing

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

Rendered to:

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

Report No: 05-30149.01
Test Date: 01/16/01
Report Date: 02/08/01
Expiration Date: 01/16/05

Project Summary: Architectural Testing, Inc. (ATI) was contracted by Simonton Windows to witness performance testing on a Series/Model 08-08, poly vinyl chloride (PVC) awning window at the Simonton Windows facility located in Pennsboro, West Virginia. The sample tested successfully met the performance requirements for an AP-R55 53 x 26 rating. Test specimen description and results are reported herein.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWWDA 101/L.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 2' 2" high

Sash Size: 4' 3-1/4" wide by 2' 0-1/4" high

Finish: All vinyl was white.

Glazing Details: The window was exterior glazed using 3/4" thick 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.



Test Specimen Description: (Continued)

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

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

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	Interior perimeter of sash
0.187" backed by 0.340" high center fin pile	1 Row	Exterior perimeter of sash

Hardware:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Dual arm roto operator	1	Center of sill
Single arm hinge system	2	One per jamb
Single point lock system with plastic keepers	2	One at each jamb lower corner, adjacent keepers on sash stiles
Metal snubber	1	Midspan of top rail and head

Drainage:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
3/16" diameter hole	2	Bottom rail glazing pocket (thru two walls)

Reinforcement: None.

Installation: The window unit was installed into a 2" x 10" wood buck constructed from Spruce-Pine-Fir construction lumber and secured through the nailing fin with 1-1/4" drywall screws spaced approximately 4-1/2" o.c. and sealed with a silicone caulking.



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 per ASTM E 283 (See Note #1) @ 1.57 psf (25 mph)	0.02 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 (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.2	Uniform Load Structural @ 22.5 psf (exterior) @ 22.5 psf (interior)	.001" .002"	.103" max. .103" 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
	Tests B1 thru B3	No entry	No entry
	Lock Manipulation Test	No entry	No entry
2.2.4.5.1	Hardware Load Test	1.125"	3.5" max.

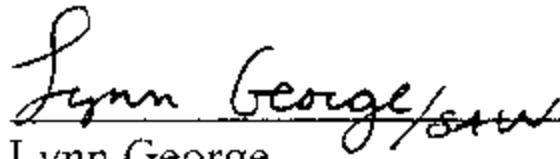
Optional Performance

4.3	Water Resistance per ASTM E 547 (with and without screen) WTP = 8.25 psf	No leakage	No leakage
4.4.2	Uniform Load Structural @ 82.5 psf (exterior) @ 82.5 psf (interior)	0.018" 0.017"	0.103" max. 0.103" max.

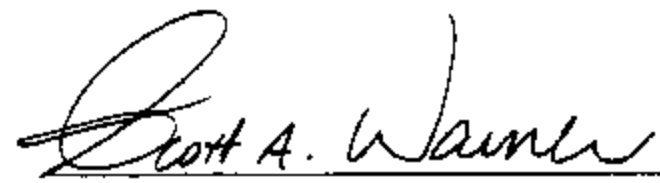


Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. 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



Scott A. Warner
Executive Vice President

LG:tjp
05-30149.01