



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

**Rendered to:**

**SIMONTON WINDOWS**

**SERIES/MODEL: 08-08**

**TYPE: PVC Casement Window**

**RATING: C-R55 36 x 80**

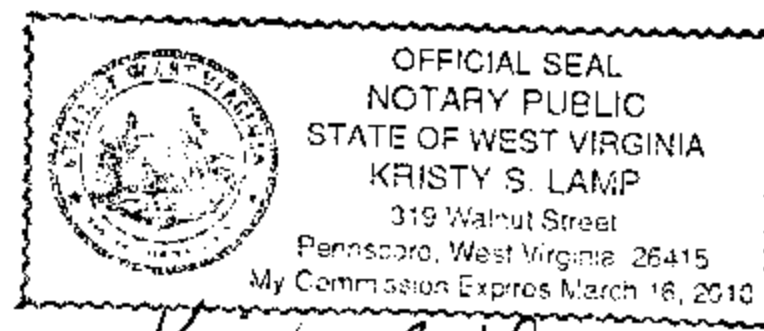
<b>Title of Test</b>	<b>Results</b>
Overall Design Pressure	55.0 psf
Operating Force	N/A
Air Infiltration	0.01 cfm/ft <sup>2</sup>
Water Resistance	8.25 psf
Structural Test Pressure	82.5 psf
Forced Entry Resistance	Grade 10

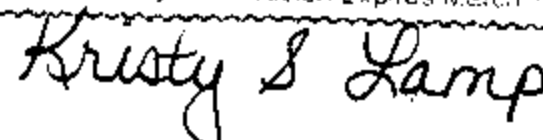
Reference should be made to Report No. 05-30166.01 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.

  
Lynn George, Project Manager

LG:tjp







Architectural Testing

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

Rendered to:

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

Report No: 05-30166.01  
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) casement window at the Simonton Windows facility located in Pennsboro, West Virginia. The sample tested successfully met the performance requirements for a C-R55 36 x 80 rating. Test specimen description and results are reported herein.

**Test Specification:** The test specimen was evaluated in accordance with AAMA/NWDA 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) Casement Window

**Overall Size:** 3' 0" wide by 6' 8" high

**Sash Size:** 2' 10-1/4" wide by 6' 6-1/4" high

**Glazing Details:** The window was exterior glazed using 3/4" thick sealed insulating glass fabricated with two 1/8" annealed sheets separated by a steel spacer system. The glass was set against 1/2" wide glazing tape and secured using snap-fit dual durometer vinyl glazing beads.



**Test Specimen Description: (Continued)**

**Weatherstripping:**

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
1/4" co-extruded flexible vinyl leaf	1 Row	Interior perimeter of sash
3/8" co-extruded flexible vinyl hollow bulb	1 Row	Perimeter of sash
0.187" backed by 0.340" high center fin pile	1 Row	Exterior perimeter of sash

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

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

**Hardware:**

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Multi-point lock	1	Locking jamb
Plastic lock keepers	4	Locking stile at 3-5/8", 25-1/2", 47-3/8" and 69-1/4" up from bottom
Steel snubber system	2	Hing stile/jamb, 23-1/2" from each end
Hinge system	2	Head and sill, one per end
Roto-operator	1	Sill, 12" from hinge jamb

**Drainage:**

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
3/16" diameter	2	Each end of the 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 4-1/4" o.c. and sealed with silicone caulking.

**Test Results:**

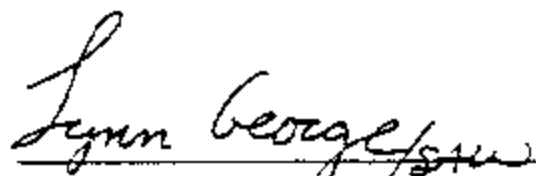
The results are tabulated as follows:

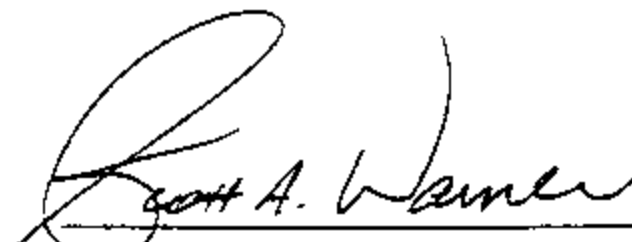
<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.1.2	Air Infiltration per ASTM E 283 (See Note #1) @ 1.57 psf (25 mph)	0.01 cfm/ft <sup>2</sup>	0.3 cfm/ft <sup>2</sup> max.
<i>Note #1: The tested specimen meets (or exceeds) the performance levels specified in AAMA/NWDA 101/LS. 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 per ASTM E 330 @ 22.5 psf (positive) @ 22.5 psf (negative)	Negligible 0.006"	.313" max. .313" 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
2.2.5.6.1	Vertical Deflection Test @ 45 lbf	0.04"	0.71"
2.2.5.6.2	Hardware Load Test @ 5.0 lb/ft <sup>2</sup>	No damage	No damage
<u>Optional Performance</u>			
4.3	Water Resistance per ASTM E 547 WTP = 8.25 psf	No leakage	No leakage
4.4.2	Uniform Load Structural (Lock Stile) @ 82.5 psf (positive) @ 82.5 psf (negative)	0.044" 0.028"	0.313" max. 0.313" 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:

  
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Lynn George  
Project Manager

  
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Scott A. Warner  
Executive Vice President

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