



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

Rendered to:

**GORELL ENTERPRISES, INC.**

**SERIES/MODEL: 3007  
TYPE: PVC Casement Window (XO)**

Title of Test	Results
Rating	C-R50 60 x 48
Overall Design Pressure	50 psf
Air Infiltration	0.01 cfm/ft <sup>2</sup>
Water Resistance	8.25 psf
Structural Test Pressure	$\pm$ 75.0 psf
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 01-39046.01 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.

Adam Fodor, Technician

AF:tjp



Architectural Testing

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

Rendered to:

GORELL ENTERPRISES, INC.  
1380 Wayne Avenue  
Indiana, Pennsylvania 15701

Report No: 01-39046.01  
Test Date: 03/12/01  
Through: 05/22/01  
Report Date: 05/30/01  
Expiration Date: 05/22/05

**Project Summary:** Architectural Testing, Inc. (ATT) was contracted to perform tests on a Series/Model 3007, PVC casement window (XO). The sample tested successfully met the performance requirements for a C-R50 60 x 48 rating. Test specimen description and results are reported herein.

**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:** 3007

**Type:** PVC Casement Window (XO)

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

**Vent Size (2):** 2' 4-1/2" wide by 3' 9-3/4" high

**Fixed Daylight Opening Size:** 1' 11-5/8" wide by 3' 5" high

**Finish:** All PVC was white.

**Glazing Details:** The vent utilized a 7/8" thick, sealed insulating glass unit fabricated from two sheets of 1/8" thick, clear annealed glass and a spacer system. The insulating glass units were exterior glazed onto double-sided foam tape and secured with PVC glazing beads.

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**Test Specimen Description: (Continued)**

**Weatherstripping:**

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
0.250" high by 0.187" backed polypile with center fin	1 Row	Perimeter of vents
5/16" long vinyl wrapped foam gasket	1 Row	Perimeter of vents and vent openings

**Frame Construction:** The frame was constructed of extruded PVC members with mitered and welded corners. The intermediate frame stile was coped, butted and fastened to the head and sill with three screws per end.

**Vent Construction:** The vents were constructed of extruded PVC members with mitered and welded corners. The fixed vent utilized three clips on each stile, secured with two screws each. The fixed vent was secured to the frame with one screw through the frame into each clip.

**Hardware:**

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Multi-point lock assembly (4 point)	1	Lock stile of active vent
Rotary operator	1	Sill
Hinge assembly	4	Top and bottom of both hinge stiles

**Drainage:** No fabricated drainage was utilized.

**Reinforcement:** No reinforcement was utilized.

**Installation:** The test unit was installed into the 2" x 8" wood test buck with wooden blind stops on the interior and exterior. The exterior perimeter was sealed with silicone.

**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/NWWDA 101/I.S. 2-97 for air infiltration.</i>			
2.1.3	Water Resistance per ASTM E 547 (See Note #2)		
<i>Note #2: The client opted to start at a pressure higher than the minimum required. See the results for this test listed under "Optional Performance".</i>			
2.1.4.2	Uniform Load Structural per ASTM E 330 (See Note #2)		
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 through B3	No entry	No entry
	Lock Manipulation Test	No entry	No entry
2.2.5.6.2	Vertical Deflection Test @ 45 lbs	0.08" deflection	0.59" max. deflection
2.2.5.6.3	Hardware Load Test @ 5.00 psf	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 per ASTM E 330 (Measurements reported were taken on the intermediate frame stile) @ 75.0 psf (exterior) @ 75.0 psf (interior)	0.01" 0.01"	0.18" max. 0.18" max.



Representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. This report is the exclusive property of the client so named herein and is applicable to the sample tested. Results obtained are tested values and do not constitute an opinion or endorsement by this laboratory.

For ARCHITECTURAL TESTING, INC:

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Adam Fodor  
Technician

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David G. Moyer, Vice President  
Director of Testing Services

AF:tjp  
01-39046.01



**DOCUMENT CONTROL ADDENDUM #01-39046.00**

**Current Issue Date: 05/30/01**

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**Report No.: 01-39046.01**

**Requested by:** Rich Gibson, Gorell Enterprises, Inc.

**Purpose:** AAMA/NWWDA 101/I.S.2-97 testing on Series/Model 3007, PVC casement window (XO).

**Issued Date:** 05/30/01

**Comments:**