

# FENESTRATION TESTING LABORATORY

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## TESTED FOR

**INTERNATIONAL WINDOW CORP.**  
5625 East Firestone Boulevard  
South Gate, CA 90280

Report No. : V01P-059  
Date : May 11, 2001  
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### 1.0 PURPOSE

The purpose of this report is to present the testing methods employed and the test results obtained during the performance testing of one (1) PVC Projected Window described in paragraph 4.0 of this report.

### 2.0 TEST REFERENCES

- 2.1 Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors:  
AAMA/NWWDA 101/I.S.2-97: AP - C 30 48 x 35
- 2.2 CAWM 301 - 90 Forced Entry Resistance Tests for Windows.

### 3.0 SUMMARY

The test results in paragraphs 5.0 and 6.0 indicate that the test sample described in paragraph 4.0 of this report complied with the performance requirements of the above referenced specifications.

### 4.0 SAMPLE SUBMITTED

SERIES: 5320A

CONFIGURATION: Single Vent Out

FRAME SIZE: 47.50" x 35.38"

VENT SIZE: 44.25" x 34.00"

GLASS: 3/16" annealed glass.

GLAZING: Outside glazed with 1/2" x 1/16" double-sided foam tape. PVC snap-in glazing bead was applied full perimeter on the outside. Rubber setting blocks were set at quarter points on the bottom rail.

WEEPAGE: None.

WEATHERING: The frame contained two (2) strips of dual-durometer bulb vinyl full perimeter with mitered and welded corners. The vent contained a single dual-durometer leaf vinyl full perimeter.

HARDWARE: Each jamb contained a metal cam lock 7/4" from the bottom, fastened with a pair of #8 x 3/8" PPH screws. The hook tongue of each lock engaged a steel keeper fastened with a pair of #8 x 3/4" PFH screws to each stile. The sill contained a scissors roto operator at midspan. The vent was supported by a hinge in each jamb and the roto operator at the midspan of the bottom rail.

**CONSTRUCTION:** The frame and sash corners were welded full profile. Each sash stile was reinforced with aluminum extrusion.

**CAULKING:** None.

**ANCHORING:** The window was mounted in a 2" x 6" wooden buck and fastened with screws. Wood furring was applied over the nail fins and fastened to the buck every 16".

5.0 **TEST PROCEDURES AND RESULTS**

5.1 All testing procedures were performed in accordance with the performance requirements of the test specifications referenced in paragraph 2.0 of this report.

5.2 **TEST RESULTS PARAGRAPH**

	<b>TEST DESCRIPTION</b>	<b>MEASURED</b>	<b>ALLOWED</b>
2.1.2	Air Infiltration (ASTM E 283) 1.57 PSF The tested specimen exceeds the performance requirements specified in AAMA/NWWDA 101/1.S.2-97 for Air Infiltration.	0.1 CFM/Ft <sup>2</sup>	0.3 CFM/Ft <sup>2</sup>
2.1.3	Water Penetration (ASTM E 547) 4.50 PSF	No Leakage	No Leakage
2.1.4	Uniform Load Structural (ASTM E 330) 45.0 PSF POS 45.0 PSF NEG	0.00" 0.00"	0.177" Set 0.177" Set
2.1.7	Welded Corner Test	Passed	Break Shall Not Extend Along Entire Weld Line
2.2.4.5.1	Hardware Load Test	0.750"	3.500"
2.2.4.5.2	Sash Torsion Test	0.063" Defl.	1.46"

6.0 2.1.8 **CAWM 301 - 90 FORCED ENTRY RESISTANCE TEST RESULTS**

2.4.2 Type "II" Window

	<b>TEST</b>	<b>RESULTS</b>	<b>DESCRIPTION</b>
5.2.1		Passed	Disassembly
5.2.2	A	Passed	With swinging sash in normal position, 100# load within three (3) inches of each end of the member which is opposite the hinged side, in direction perpendicular to the plane of the glass that would tend to open the window.
5.2.3	B	Passed	Test A and simultaneous load of 100# on the outside within one (1) inch of each end of the member which is opposite the hinged side, in a direction parallel to the plane of the glass which would tend to disengage the lock.
5.2.4	C	Passed	With the swinging sash in normal position, 200# on the member containing the locking device, within six (6) inches of the locking device, in direction perpendicular to the plane of the glass which would tend to open the window, while simultaneous load of 100# on the outside within one (1) inch of each end of the member which is opposite the hinged side, in a direction parallel to the plane of the glass which would tend to disengage lock.

6.0 2.1.8 CAWM 301 - 90 FORCED ENTRY RESISTANCE TEST RESULTS  
2.4.2 Type "II" Window

	<u>TEST RESULTS</u>	<u>DESCRIPTION</u>
5.2.5	E Passed	Hand and Tool Manipulation.

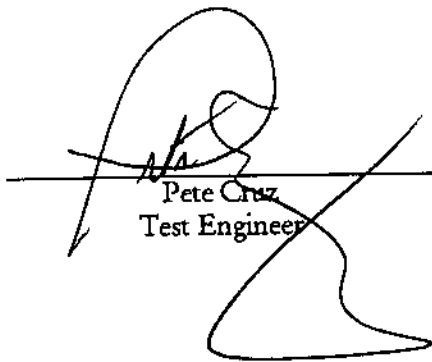
For a complete description of the tested sample refer to the attached cross section drawings.

Assembly and die drawings of frame members are on file and have been compared to the sample submitted. Test sample sections, drawings and a copy of this report will be retained at the test laboratory for four years.

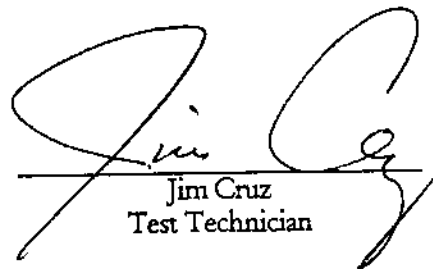
This test report may not be modified in any way without the written consent of Fenestration Testing Laboratory.

The above test results were obtained by using the applicable ASTM and CAWM Test Methods. This report does not constitute Certification of this product. Certification can only be granted by an approved Administrator and/or Validator.

Testing Completed: May 11, 2001  
Report Completed: May 11, 2001



Pete Cruz  
Test Engineer



Jim Cruz  
Test Technician