

FENESTRATION **T**ESTING **L**ABORATORY

1615 S. Campus Avenue • Ontario, CA 91761 • Ph. (909) 923-6260 • Fax (909) 923-6262

TESTED FOR

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

Report No. : V01P-132
Date : July 31, 2001
Page : 1 of 3

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/NWDA 101/I.S.2-97: AP - LC 25 47 x 95

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: Vent with Adjacent Fixed Lite

FRAME SIZE: 47.37" x 95.37"

VENT SIZE: 46.06" x 34.06"

FIXED SIZE: 46.06" x 59.06"

GLASS: Both panels contained a single lite of 3/16" clear annealed glass.

GLAZING: Both lites were glazed with double-sided foam tape and snap-in glazing bead was applied full perimeter on the outside.

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 durometer leaf vinyl full perimeter.

HARDWARE: Each jamb contained a metal cam lock 7" from the bottom, fastened with a pair of screws. The hook tongue of each lock engaged a steel keeper fastened with a pair of screws at each stile. The sill contained a roto operator fastened to the frame with a pair of screws.

- HARDWARE:** The vent panel was supported by a hinge in each jamb. The fixed panel was mechanically joined to the frame using an aluminum spacer. Screws were 12" off center, full perimeter.
- CONSTRUCTION:** The frame and sash corners were welded full profile. Each sash stile was reinforced with aluminum extrusion.
- CAULKING:** None.
- ANCHORING:** The frame nail-on fin was mounted over a 2" x 6" wood rough opening and fastened with screws every 16" on center.

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

<u>TEST DESCRIPTION</u>	<u>MEASURED</u>	<u>ALLOWED</u>
2.1.2 Air Infiltration (ASTM E 283) 1.57 PSF The tested specimen exceeds the performance requirements specified in AAMA/NWDA 101/I.S.2-97 for Air Infiltration.	0.1 CFM/Ft ²	0.3 CFM/Ft ²
2.1.3 Water Penetration (ASTM E 547) 3.75 PSF	No Leakage	No Leakage
2.1.4 Uniform Load Structural (ASTM E 330) 37.5 PSF POS 37.5 PSF NEG	0.062" 0.030"	0.184" Set 0.184" 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"

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

2.4.2 Type "II" Window

<u>TEST</u>	<u>RESULTS</u>	<u>DESCRIPTION</u>
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.

6.0 2.1.8 CAWM 301 - 90 FORCED ENTRY RESISTANCE TEST RESULTS

2.4.2 Type "II" Window

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

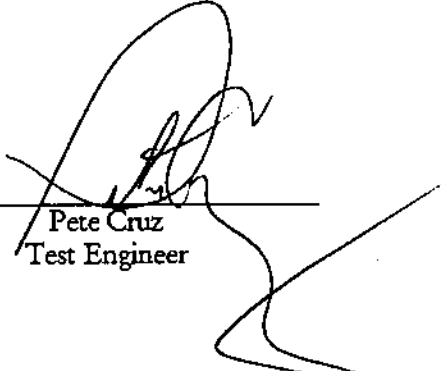
For a complete description of the tested sample refer to the attached cross section drawings.

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: July 31, 2001
Report Completed: July 31, 2001



Pete Cruz
Test Engineer



Michael Orozco
Test Technician