

TESTED FOR

FLEETWOOD ALUMINUM, INC.

2485 Railroad Street
Corona, CA 91720

Report No. : A02F-203
Date : November 12, 2002
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) **Thermally Broken Aluminum Fixed 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/LS.2 - 97: **F - R20** 72 x 72

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: YUKON 5000 INSIDE GLAZED

CONFIGURATION: O

FRAME SIZE: 71.50" x 71.50"

FIXED SIZE: 67.62" x 67.62" Daylight Opening

GLASS: The frame was glazed with a 1" overall insulated unit containing a 1/4" clear annealed lite on each side and a 1/2" metal spacer.

GLAZING: The glass pane was glazed from the interior onto a sanoprene bulb gasket. Snap-in extruded stops with sanoprene bulb gaskets secured the glass in place.
The glass unit rested on setting blocks place at quarter points and was adhered to the frame with silicone applied full perimeter under bulb gasket.

WEEPAGE: The sill contained a 1" x 3/16" weep slot located four inches from each end. A weep cover was placed on the exterior of each weep.

WEATHERSTRIP: Sanoprene bulb gasket on snap-in stops and frame full perimeter.

HARDWARE: None.

CONSTRUCTION: All of the frame corners were keyed and welded together.

CAULKING: All frame corners were sealed full profile.
Glass to frame under bulb gasket full perimeter.

ANCHORING: The frame was mounted over a 2" x 6" wood rough opening and fastened with #10 x 2" screws every 16" on center through frame.

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 levels specified in AAMA/NWDA 101/1.S.2 - 97 for Air Infiltration.	0.01 CFM/Ft ²	0.3 CFM/Ft ²
2.1.3 Water Penetration (ASTM E 547) 2.86 PSF	No Leakage	No Leakage
2.1.4 Uniform Load Structural (ASTM E 330) 22.5 PSF POS 22.5 PSF NEG	0.00" 0.00"	0.28" Set 0.28" Set

5.3 OPTIONAL PERFORMANCE GRADES

TEST RESULTS
PARAGRAPH

<u>TEST DESCRIPTION</u>	<u>MEASURED</u>	<u>ALLOWED</u>
4.3 Water Penetration (ASTM E 547) 3.00 PSF	No Leakage	No Leakage
4.4.1 Uniform Load Deflection (ASTM E 330) 20.0 PSF POS 20.0 PSF NEG	0.19" 0.11"	No Damage No Damage
4.4.2 Uniform Load Structural (ASTM E 330) 30.0 PSF POS 30.0 PSF NEG	0.00" 0.00"	0.28" Set 0.28" Set

6.0 2.1.8 CAWM 301 - 90 FORCED ENTRY TEST RESULTS

2.4.5 Type "V" Window

<u>TEST</u>	<u>RESULTS</u>	<u>DESCRIPTION</u>
5.4.1 A	Passed	Disassembly Test.
5.4.2 B	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 preceding 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: November 1, 2002
Report Completed: November 12, 2002

Pete Cruz
Test Engineer

Melchor Ordaz
Test Technician