

**TESTED FOR**

**FLEETWOOD ALUMINUM, INC.**

2485 Railroad Street  
Corona, CA 91720

Report No. : A02F-204  
Date : November 12, 2002  
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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) **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/I.S.2 - 97: **F - HC40** 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 OUTSIDE 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 exterior 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 corners with silicone applied three (3) inches in each direction under bulb gasket.

**WEEPAGE:** The sill exterior retaining leg contained a 1" x 3/16" weep slot at each end.

**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.  
The glass was sealed to frame corners under bulb gasket, 3" in each direction.

**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) 6.24 PSF The tested specimen exceeds the performance levels specified in AAMA/NWWDA 101/I.S.2 - 97 for Air Infiltration.	0.08 CFM/Ft <sup>2</sup>	0.3 CFM/Ft <sup>2</sup>
2.1.3 Water Penetration (ASTM E 547 & ASTM E 331) 6.00 PSF	No Leakage	No Leakage
2.1.4.1 Uniform Load Deflection (ASTM E 330) 40.0 PSF POS 40.0 PSF NEG	0.27" 0.22"	No Damage No Damage
2.1.4.2 Uniform Load Structural (ASTM E 330) 60.0 PSF POS 60.0 PSF NEG	0.00" 0.00"	0.28" Set 0.28" Set

**5.3 ADDITIONAL TESTING**  
**TEST DESCRIPTION**

<u>TEST DESCRIPTION</u>	<u>MEASURED</u>	<u>ALLOWED</u>
Water Penetration (ASTM E 547 & ASTM E 331) 8.00 PSF	No Leakage	No Leakage

**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	<b>A</b>	Passed	Disassembly Test.
5.4.2	<b>B</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

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