

TESTED FOR

Fleetwood Aluminum Products, Inc.
2485 Railroad Street
Corona, CA 91720

Report No. : A02F-067
Date : May 10, 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 - C 40** 216 x 120
- 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: **KONA 3800 Fixed Window**

CONFIGURATION: OOO

FRAME SIZE: 216.00" x 120.00"

GLASS: The frame was single glazed with 1/4" clear **tempered**.

GLAZING: The glass panes were glazed from the interior and onto a sanoprene bulb gasket.
Snap-in extruded stops with sanoprene bulb gaskets secured the glass in place.
Each pane rested on setting blocks place at quarter points of each lite.

WEEPAGE: The sill contained a 1" x 3/16" weep slots located at quarter points under each lite.

WEATHERSTRIP: None.

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

CONSTRUCTION: All of the frame corners were mechanically joined with three (3) screws.
Each of the vertical mullions was mechanically joined to the frame with two (2) screws at each end.

CAULKING: All frame corners full profile.
Every corner of each glass contained a 3" bead of silicone running both horizontal and vertical.

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

<u>PARAGRAPH</u>	<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/NWWDA 101/1.S.2 - 97 for Air Infiltration.	0.002 CFM/Ft ²	0.3 CFM/Ft ²
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	0.04" 0.02"	0.48" Set 0.48" Set

5.3 OPTIONAL PERFORMANCE GRADES

TEST RESULTS

<u>PARAGRAPH</u>	<u>TEST DESCRIPTION</u>	<u>MEASURED</u>	<u>ALLOWED</u>
4.3	Water Penetration (ASTM E 547 & ASTM E 331) 6.00 PSF	No Leakage	No Leakage
4.4.1	Uniform Load Deflection (ASTM E 330) 40.0 PSF POS 40.0 PSF NEG	0.65" 0.60"	No Damage No Damage
4.4.2	Uniform Load Structural (ASTM E 330) 60.0 PSF POS 60.0 PSF NEG	0.09" 0.06"	0.48" Set 0.48" Set

5.4 ADDITIONAL TESTING

<u>TEST DESCRIPTION</u>	<u>MEASURED</u>	<u>ALLOWED</u>
Water Penetration (ASTM E 547 & ASTM E 331) 10.00 PSF	No Leakage	No Leakage

6.0 2.1.8 FORCED ENTRY RESISTANCE TEST RESULTS FOR WINDOWS

CAWM 301 - 90

2.4.5 Type "V" Window

	<u>TEST</u>	<u>RESULTS</u>	<u>DESCRIPTION</u>
5.4.1	A	Passed	Disassembly
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.

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/Validator.

Testing Completed: May 2, 2002

Report Completed: May 10, 2002

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