

**TESTED FOR**

**Fleetwood Aluminum Products**  
2485 Railroad Street  
Corona, CA 91720

Report No. : A96F-026  
Date : February 14, 1996  
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**1.0 PURPOSE**

The purpose of this report is to present the testing methods employed and 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 American National Standards Institute Specifications: ANSI/ AAMA 101-93:  
**DUAL GLAZED = F-HC80**  
**SINGLE GLAZED = F-HC60**

2.2 CAWM 301-90 Forced Entry Resistance for Windows.

**3.0 SUMMARY**

The test results in paragraph 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:** 3300 Fixed Window

**CONFIGURATION:** O

**FRAME SIZE:** 72.50" x 95.50"

**FIXED PANEL SIZE:** 70.63" x 93.75"

**GLASS:** For F-HC60 glazed with a single lite of 3/16" tempered glass.

For F-HC80 glazed with 1" overall insulated glass containing 1/4" tempered glass on both sides and 1/2" aluminum spacer.

**GLAZING:** The fixed lite was channel glazed with vinyl gasket.

**WEEPAGE:** The outside seam of the fixed sash bottom rail to sill interface was left unsealed to allow water to escape.

**WEATHERING:** The following contained 0.260" overall Q-Lon foam filled bulb:  
 stops Head one strip on the inside leg; Jamb - one strip on center leg facing in. Sash at jambs each contained one strip of Q-Lon.

**WEATHERING:** The sash stop at the sill contained a strip of 0.310" pile.

**HARDWARE:** None.

**CONSTRUCTION:** Frame was mechanically joined with a pair of #10 screws PPH one 3/4" and one 1" at each corner.

The sash corners were fastened with a pair of #8 x 2" PPH.

each The sash stops were fastened to the frame with three #8 x 1½" PPH screws in jamb and four #8 x 2" PPHS screws in the sill stop.

**CAULKING:** The glazing corners were caulked inside and out as was the bottom rail inside leg at each end.

the sill The frame corners were sealed full profile. The sash bottom rail was sealed to inside leg full length with DW 795 silicone. The silicone bead was continued up at each jamb 4" to the top of the bottom rail sealing the seam between stiles and jambs.

**ANCHORING:** The window was anchored to a 2" x 6" buck with #10 PPH screws four at the head and sill, and five in each jamb.

**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**  
**ALLOWED**

**TEST DESCRIPTION**

**MEASURED**

2.1.2	Air Infiltration (ASTM E 283-91) 6.24 PSF	0.10 CFM/Ft <sup>2</sup>	0.15 CFM/Ft <sup>2</sup>
2.1.3	Water Penetration (ASTM E 547-86 and ASTM E 331-86) 17.0 PSF	No Leakage	No Leakage
2.1.4	Uniform Load Structural (ASTM E 330-90) <b>Single Glazed</b> 90.0 PSF POS	+0.00"	+0.375" Set

90.0 PSF NEG

- 0.00"

- 0.375" Set

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**5.2** TEST RESULTS  
PARAGRAPH  
ALLOWED

TEST DESCRIPTION

MEASURED

2.1.4	Uniform Load Structural (ASTM E 330-90) <b>Dual Glazed</b>		
	120.0 PSF POS	+0.02"	+0.375" Set
	120.0 PSF NEG	- 0.02"	- 0.375" Set

**6.0** FORCED ENTRY RESISTANCE TEST RESULTS FOR WINDOWS  
CAWM 301-90 - Type "V" Window

TEST RESULTS

A	PASSED	Disassembly Test
B	PASSED	Tool Manipulation Test

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

Testing Completed: February 14, 1996

Report Completed: February 15, 1996

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