TESTED FOR

Report No. : A96F-025
Date : February 14, 1996

Fleetwood Aluminum Products
2485 Railroad Street
Corona, CA 91720

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) **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: **3000 Fixed Window**

CONFIGURATION: O

FRAME SIZE: 72.50" x 95.50"

FIXED PANEL SIZE: 70.63" x 93.50"

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 a strip of Q-Lon foam filled bulb 0.260" overall: Jamb - on the center leg facing out; Jamb Stops - facing the sash stiles.

HARDWARE: None.

CONSTRUCTION: The frame corners were mechanically joined with a pair of #10 x 3/4" PPH screws.

The sash corners were each joined with a #10 x 1¾" PPH screw.

The fixed sash was supported by an aluminum snap-in jamb stop at each stile. The stop is applied from the inside.

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

The frame corners were sealed full profile.

The sash bottom rail was sealed to the sill inside leg with DW 795 silicone, full length.

The silicone bead continued up at each jamb 4" to the top of the bottom rail sealing the seam between stiles and jambs.

ANCHORING: The head and sill were each anchored to a 2" x 6" buck with four #8 x 1½" PPH screws.

The jambs were each anchored with five #8 x 1½" PPH screws.

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	TEST DESCRIPTION	MEASURED	ALLOWED
2.1.2	Air Infiltration (ASTM E 283-91) 6.24 PSF	0.02 CFM/Ft²	0.15 CFM/Ft²

2.1.3	Water Penetration (ASTM E 547-86 and ASTM E 331-86)		
	15.0 PSF	No Leakage	No Leakage

5.2 TEST RESULTS

PARAGRAPH	TEST DESCRIPTION	MEASURED	ALLOWED
2.1.4	Uniform Load Structural (ASTM E 330-90) **Single Glazed**		
	90.0 PSF POS	+0.13"	+0.374" Set
	90.0 PSF NEG	- 0.13"	- 0.374" Set
2.1.4	Uniform Load Structural (ASTM E 330-90) **Dual Glazed**		
	120.0 PSF POS	+0.04"	+0.374" Set
	120.0 PSF NEG	- 0.06"	- 0.374" 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

Pete Cruz
Test Engineer

Jim Cruz
Test Technician