

TESTED FOR

FLEETWOOD ALUMINUM PRODUCTS, INC.

2485 Railroad Street
Corona, CA 91720

Report No. : A03F-118
Date : November 11, 2003
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) **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 - HC 40** 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: WESTWOOD 250

CONFIGURATION: O

FRAME SIZE: 72.00" x 72.00"

FIXED SIZE: 68.75" x 68.75" Daylight Opening

GLASS: The frame was glazed with a single lite of 1/4" clear annealed glass.

GLAZING: The glass pane was glazed from the exterior and onto a vinyl bulb gasket. Snap-in extruded stops with vinyl bulb gaskets secured and sealed the glass in place.
The fixed lite rested on setting blocks place at quarter points of the lite span and was adhered to the frame with silicone applied 3" in each direction under bulb gasket of the frame corners.

WEEPAGE: The exterior face of the sill contained a 1" x 3/16" weep slot at each end.

WEATHERING: Glazing stop contained a bulb vinyl.

HARDWARE: None.

CONSTRUCTION: The frame corners were mechanically fastened with a pair of #6 x 3/4" Ph Pan Head screws.

CAULKING:

The following were sealed:

- 1) All frame corners full profile.
- 2) Glass to frame corners under bulb gasket 3" in each direction.

ANCHORING:

The block frame was mounted over a 2" x 6" wood rough opening and fastened with #8 x 1½" PH Flat Head 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) 6.24 PSF The tested specimen exceeds the performance levels specified in AAMA/NWWDA 101/I.S.2 - 97 for Air Infiltration. | 0.02 CFM/Ft² | 0.3 CFM/Ft² |
| 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 | 0.10" 0.19" | 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" | 0.29" Set 0.29" Set |

5.4 ADDITIONAL TESTING

| <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 | 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 11, 2003

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