

# FENESTRATION TESTING LABORATORY

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## TESTED FOR

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

Report No. : A97P-068  
Date : April 29, 1997  
Page : 1 of 4  
Reissued : July 5, 1998

### 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 Projected Window** described in paragraph 4.0 of this report.

### 2.0 TEST REFERENCES

2.1 American National Standards Institute Specifications ANSI/AAMA 101 - 93:  
**P - C 75**

### 3.0 SUMMARY

The test results in paragraph 5.0 indicate that the test sample described in paragraph 4.0 of this report complied with the performance requirements of the above referenced specification.

### 4.0 SAMPLE SUBMITTED

**SERIES:** YUKON 5000T Projected Window

**CONFIGURATION:** Fixed - Awning Vent - Fixed - Hopper Vent (From top to bottom)

**FRAME SIZE:** 50.56" x 96.00"

**HOPPER SIZE:** 48.63" x 17.50"

**AWNING SIZE:** 48.38" x 34.50"

**FIXED SIZE:** 46.63" x 18.50" Bottom and top lite, daylight opening

**GLASS:** All of the lites consisted of single glazed 1/4" clear annealed glass.  
All of the lites rested on setting blocks siliconed in place at quarter points and a block at midspan on all other sides.

**GLAZING:** All of the lites were glazed to their respective frame and vent members from the inside as follows:

- a) Tape glazed with double-sided foam tape as a primary seal.
- b) Wet glazed with a heel bead of silicone along the outside perimeter of the glass and with a full bead of silicone on the inside perimeter of the glass.

**GLAZING (cont'd):**

c) Secured in place along the inside perimeter with extruded aluminum snap-in glazing beads.

**WEATHERING:**

The frame opening for each vent contained a continuous bulb vinyl, the vent contained a continuous bulb vinyl.

The snap-in glazing beads contained a bulb vinyl.

**WEEPAGE:**

4.5 inches from each end, the hopper sill contained a 1" x .18" weep slot. Each weep contained a snap-in nylon weep cover that drained the water down. An open cell foam was placed on the inside of each weep.

Ten inches from each end the sill of the awning vent contained a 1" x 0.18" weep.

**HARDWARE:**

Both vents, the hopper on the top rail and the awning on the bottom rail, at quarter points contained a cam action latch. The latches and respective keeps on the frame were each secured in place with a pair of #10 x 3/8" PFH screws.

Both vents were supported in the frame with stainless steel Anderburg M3T56181 four-bar friction hinges in each stile.

The hinges were fastened to the frame and vents with three (3) #8 x 3/4" Tek screws.

**CONSTRUCTION:**

The frame corners and all intermediate frame joints were keyed and welded.

**ANCHORING:**

The frame was secured in place with full perimeter wood furring strips on both sides.

**CAULKING:**

- a) All vent corners full profile.
- b) All frame joints full profile.
- c) All lock and keep screws.
- d) Frame perimeter to wood framing.

**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)  
6.24 PSF (PO Vent)  
6.24 PSF (Hopper Vent)

.02 CFM/FtCL  
.07 CFM/FtCL

.37 CFM/FtCL  
.37 CFM/FtCL

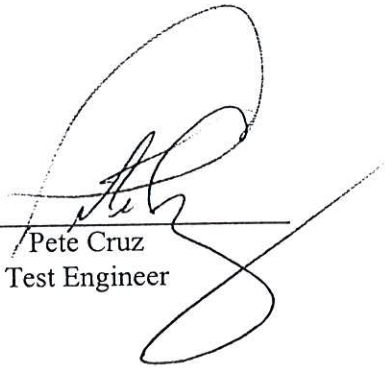
5.2 TEST RESULTS (cont'd)

| <u>PARAGRAPH</u> | <u>TEST DESCRIPTION</u>  | <u>MEASURED</u>                   | <u>ALLOWED</u>                                   |
|------------------|--|-----------------------------------|--|
| 2.1.3            | Water Penetration (ASTM E 547 & ASTM E 331)<br>6.00 PSF<br>15.0 PSF                                    | No Leakage<br>No Leakage          | No Leakage<br>No Leakage                         |
| 2.1.4            | Uniform Load Structural (ASTM E 330)<br>60.0 PSF POS<br>60.0 PSF NEG<br>112.5 PSF POS<br>112.5 PSF NEG | +0.00"<br>- 0.00"<br>.02"<br>.02" | .240" Set<br>.240" Set<br>.240" Set<br>.240" Set |
| 2.2.5.5.2        | Ventilator Torsion Test  | .36"                              | 1.625"   |
| 2.2.5.5.3        | Torsion Test<br>15 lbf.  | 0.94"                             | 1.41"  |
| 2.2.5.5.4        | Horizontal Concentrated Load Test on Latch Rail<br>30 lbf.   | 0.030"                            | .062"  |
| 2.2.5.5.5        | Vertical Concentrated Load Test on Latch Rail<br>30 lbf.   | 0.040"                            | .062"  |
| 2.2.5.5.6        | Torsion Load Test on Intermediate Frame Rails  | .030"                             | .070"  |
| 2.2.5.5.7        | Vertical Concentrated Load Test on Intermediate Frame Rails<br>30 lbf.                                 | 0.01"                             | .062"  |
| 2.2.5.5.8        | Balance Arm Load Test<br>60 lbf.   | No Damage                         | No Damage  |

Detailed assembly drawings showing wall thickness of all members are on file and have been compared to the sample submitted. Test sample sections and a copy of this report will be retained at the laboratory for four years.

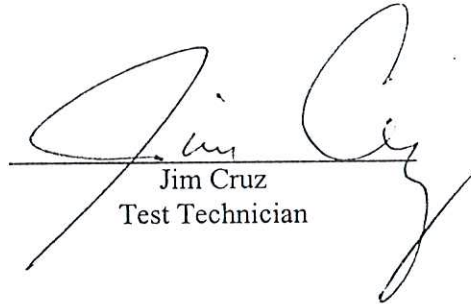
The above test results were obtained by using the applicable ASTM Test Methods. This report does not constitute Certification of this product. Certification can only be granted by an approved Administrator/Validator.

Testing Completed: April 25, 1997  
Report Completed: April 29, 1997  
Report Reissued: July 5, 1998 due to correction made to rating and addition of Ventilator Torsion Test Results.



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Pete Cruz  
Test Engineer



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Jim Cruz  
Test Technician