

TESTED FOR

Fleetwood Aluminum Products
2485 Railroad Street
Corona, CA 91720

Report No. : A96V-172
Date : August 21, 1996
Page No. : 1 of 3

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 Single Hung Window** described in paragraph 4.0 of this report.

2.0 TEST REFERENCES

2.1 American National Standards Institute Specifications ANSI/AAMA 101-93:
DH-C25 & DH-C45.

3.0 SUMMARY

The test results in paragraph 5.0 indicates 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/X**

FRAME SIZE: 54.50" x 91.50"

SASH SIZE: 52.25" x 46.12"

FIXED SIZE: 52.69" x 46.00"

GLASS: For C25 rating both panels contained single glazed 1/8" annealed glass.

For C45 rating both panels contained single glazed 3/16" annealed glass.

GLAZING: Both panels were channel glazed with vinyl gasket.

WEEPAGE: L-shaped sill.

- WEATHERING:**
- 1) Sash bottom rail on underside contained a strip of BI617 bulb vinyl.
 - 2) Sash interlock rail contained a strip of 13414-270R polypile.
 - 3) Sash stiles contained a strip of 5752-1201-9 Q-Ion.
 - 4) Fixed interlock contained a strip of 13323-270R polypile.
 - 5) Fixed interlock contained a 43620-270R adhesive back bunny tail, 1½" long, at each end of glazing pocket.
 - 6) Fixed top rail contained a strip of 93337-270R finseal.
 - 7) Jambs contained a strip of finger vinyl in fixed tracks.
 - 8) Jambs contained a strip of 43629-270R finseal in operable tracks.

- HARDWARE:**
- 1) Sash interlock contained a spring loaded steel latch 13" in from each end. Each latch housing was fastened with a pair of #10 screws.
 - 2) When locked, the spring loaded latches engage steel strikes fastened with a pair of #6 screws to the fixed interlock.
 - 3) Sash stiles at the top end of the jamb sides contained a prestressed steel spring that served as the balance clip. Each clip was fastened with a pair of #6 screws.
 - 4) Sash stiles at the bottom end of the jamb sides contained a PVC balance shoe. Each shoe was fastened with the corner screw.
 - 5) Sash stiles at each end of the weathering groove contained a PVC glide pad.

- CONSTRUCTION:**
- 1) Frame corners were joined with a pair of #8 screws.
 - 2) Fixed and operable corners were joined with one #8 screw.
 - 3) A 3" long steel pin was fastened with a #6 screw to each end of the fixed interlock.
The pins engaged the frame jambs.
 - 4) A 2½" long 1" x 1" x 1/8" wall aluminum angle was fastened to the midspan of the sill with a pair of #8 screws. The clip served as a stop for the sash bottom rail.

- CAULKING:**
- 1) All frame corner joints.
 - 2) All glazing corners.
 - 3) Fixed interlock pins where screw connection is made.
 - 4) Frame to wood rough opening.
 - 5) All sill anchor screws.

- ANCHORING:** Window frame mounted into 2" x 6" wooden buck and fastened with screws 16" on center.

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

	<u>TEST DESCRIPTION</u>	<u>MEASURED</u>
2.1.2	Air Infiltration (ASTM E 283-91) 1.57 PSF	0.21 CFM/FtCl 0.37 CFM/FtCl
2.1.3	Water Penetration (ASTM E 547-93 & 331-93) 6.75 PSF with/without screens	No Leakage No Leakage
2.1.4	Uniform Load Structural (ASTM E 330-90) 37.5 PSF POS 37.5 PSF NEG NOTE: Single glazed panels with 1/8" glass tested up to 37.5 PSF.	+0.01" - 0.01" +0.20" Set - 0.20" Set
	67.5 PSF POS 67.5 PSF NEG NOTE: Single glazed panels with 3/16" glass tested up to 67.5 PSF.	+0.09" - 0.09" +0.20" Set - 0.20" Set
2.2.3.6.1	Operating Force Motion	25-35 lbf. 45 lbf.
2.2.3.6.2	Deglazing (ASTM E 987-88) 70 lbf. Rails 50 lbf. Stiles	Passed Passed Less than 100% Less than 100%

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: August 20, 1996

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