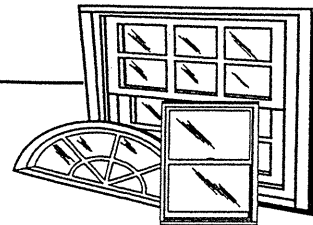


# CERTIFIED TESTING LABORATORIES

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Report Number: CTLA-330W-1  
Report Date Sept. 1, 1998

## STRUCTURAL PERFORMANCE TEST REPORT

**Client:** Specialty Window of Florida  
690 Heinberg Street  
Pensacola, Florida 32501

**Product Type and Series:** Series 100 Aluminum Flange Frame Picture Window F-HC 50 (72" x 72")

**Test Specifications:** AAMA/NWWDA 101/1.S. 2-97 "Voluntary Specification for Aluminum Vinyl (PVC) and Wood Window and Glass Door".

### Test Specimen

**Frame:** The aluminum flange frame measured 72" x 72" overall. Coped corner construction. Each corner secured with two (2) #8 x 1" P.H., S.M.S. fasteners.

**Clear-lite Opening:** 69" x 69"

**Panels:** Fixed lite

**Weather Stripping:** N/A

**Hardware & Location:** N/A

**Glazing:** 1/4" Annealed glass, interior glazed with 1/8" x 3/8" Butyl tape on glazing leg. 1/8" x 3/8" foam tape between the glass and extruded aluminum "U" channel. Silicone cap bead between "U" channel and aluminum main frame.

**Sealant:** N/A

**Weepholes:** N/A

**Reinforcement:** N/A

**Additional Description:** "U" channel glazing bead was secured to the main frame with twenty eight (28) #8 x 1" P.H., S.M.S. fasteners. Seven (7) in each head, sill and jambs. Located 4" from each corner 10" on center.

**Installation:** Twenty four (24) #10 x 2-1/2" P.H., P.H., stainless steel S.M.S. fasteners were used to secure the flange frame to the test buck. Six (6) in each frame member 4" from each corner and 12" on center.

**Surface Finish:** White

### Performance Test Results

<u>Paragraph No</u>	<u>Title of Test</u>	<u>Method</u>	<u>Measured</u>	<u>Allowed</u>
*2.1.2	Air Infiltration @ 6.24 psf	ASTM E283-91	.0 cfm/ft <sup>2</sup>	.3 cfm/ft <sup>2</sup>
The tested specimen exceeds the performance levels specified in AAMA/NWWDA 101/1.S. 2-97. for Air Infiltration.				
*2.1.3	Water Resistance 5.0 gph/ft <sup>2</sup> WTP=12 psf	ASTM E547-93 Four (4), five minute cycles ASTM E331-93 Fifteen (15) minute duration	No Entry No Entry	No Entry No Entry
2.1.4.2/3.4.2	Uniform Load Structural Permanent Deformation @ 75 psf Positive @ 75 psf Negative	ASTM E330-90 Ten (10) seconds load duration	Negligible Negligible	.288" .288"
*2.1.8	Forced Entry Resistance T <sub>1</sub> = 10 minutes Tools used: A Spatula (10.1.1.1) and a piece of stiff wire (10.1.1.2)	ASTM E588-97		
The test specimen meet the performance Grade 40.				

\*Reference CTLA 330W dated September 1, 1998

**Test Date:** September 1, 1998

**Test Completion Date:** September 1, 1998

**Remarks:** Detailed drawings were available for laboratory records and comparison to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by CTL for a period of four (4) years. The results obtained apply only to the specimen tested.

This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and they indicate compliance with the performance requirements (paragraphs as listed) of the above referenced specifications.

Certified Testing Laboratories assumes that all information provided by the clients is accurate and that the physical and chemical properties of the components as stated by the manufacture.

Certified Testing Laboratories, Inc.

*James Blakely 9/4/98*

James Blakely  
Vice President  
Architectural Division

*Ramesh Patel P.E.  
9/4/98*

cc Specialty (2)  
NAMI (2)  
Ramesh Patel P.E.