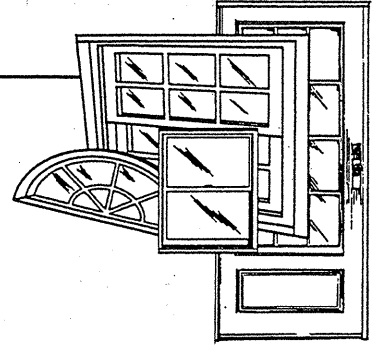


# CERTIFIED TESTING LABORATORIES

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Report Number: CTLA-749W  
Report Date: October 10, 2001

## STRUCTURAL PERFORMANCE TEST REPORT

**Client:** SPECIALTY WINDOW OF FLORIDA  
690 HEINBERG STREET  
PENSACOLA, FLORIDA 32501

**Product Type and Series:** Series 200 Aluminum Picture Window F-HC50 (72" x 72")

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

### Test Specimen

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

**Configuration:** Single fixed lite with clear lite opening measuring 69.5" x 69.5".

**Ventilator:** N/A

**Weatherstripping:** N/A

**Hardware & Location:** N/A

**Glazing:** 1/4" annealed glass interior glazed with Butyl tape, foam tape and silicone in between "U" channel glazing bead secured to frame with sixteen (16) #8 x 1" Phillips pan head self tapping screws. Four (4) in head and sill measuring from left jamb to right jamb 19", 29", 41", 53" and four (4) in each jamb measuring 19", 31", 43" and 55".

**Sealant:** A narrow joint seam sealer was used to seal all frame joints and glazing bead joints.

**Weep System:** None

**Reinforcement:** None

**Additional Description:** Silicone was used to seal frame to wooden test buck interior and exterior.

**Insect Screen:** None

**Installation:** The frame was secured to the wooden test buck with twenty (20) #10 x 2.5" S.S., P.H., Phillips head fasteners. Five (5) in head and sill measuring from left jamb 7.5", 22", 46", 49.5", 64.5" and five (5) in each jamb measuring from head 7", 22", 46", 50" and 65". The fasteners went through the glazing bead and frame into the buck.

**Surface Finish:** White

**Comment:** Nominal 2 mil polyethylene film was used to seal against air leakage during structural loads. The film was used in a manner that did not influence the test results.

### Performance Test Results

<u>Paragraph No.</u>	<u>Title of Test</u>	<u>Test Method</u>	<u>Measured</u>	<u>Allowed</u>
2.1.2	Air Infiltration @1.57 psf	ASTM E283-91	.0 cfm/ft <sup>2</sup>	.3 cfm/ft <sup>2</sup>
The test specimen exceeds the performance levels specified in AAMA/NWWDA 101/I.S.2-97				
2.1.3/4.3	Water Resistance 5.0gph/ft <sup>2</sup>	ASTM E547-93 Four (4) five (5) minute cycles	No Entry	No Entry
	WTP= 7.5 psf	ASTM E331-93 One (1)Fifteen (15) minute cycle	No Entry	No Entry
2.1.4.2/4.4.2	Uniform Load Structural	ASTM E330-90		
	Permanent Deformation Ten (10) second Duration			
	@75 psf Exterior		0"	.288"
	@75 psf Interior		0"	.288"
2.1.8	Forced Entry Resistance	ASTM E588-97	Passed	

Type "D" window assembly, T<sub>1</sub>=10 minutes Tools used, spatula and coat hanger.  
The test specimen complies to a Grade 40

**Test Date:** August 14, 2001

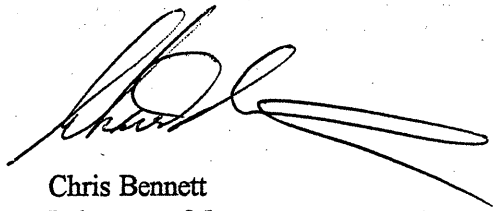
**Test Completion Date:** August 14, 2001

**Remarks:** Detail 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 client is accurate and that the physical and chemical properties of the components are as stated by the manufacturer.

Certified Testing Laboratories, Inc.



Chris Bennett  
Laboratory Manager  
Architectural Division

*Ramesh Patel P.E.*  
*11/21/01*

cc: Specialty Window of Florida (2)  
NAMI (2)  
Ramesh Patel, P.E (1)  
File (1)