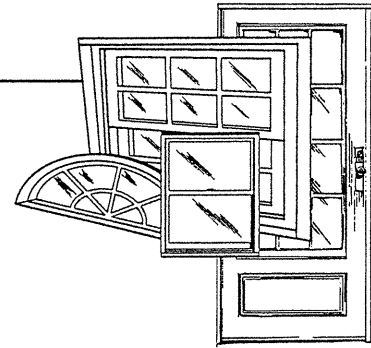


# CERTIFIED TESTING LABORATORIES

Architectural Division • 7252 Narcoossee Rd. • Orlando, FL 32822  
(407) 384-7744 • Fax (407) 384-7751  
Web Site: www.ctlarch.com  
E-mail: ctlarch.com



Report Number: CTLA-829W-1  
Report Date March 8, 2002

## STRUCTURAL PERFORMANCE TEST REPORT

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

Product Type and Series: Series Twin Vinyl Flange Frame Picture Windows with Factory Mullion ( 84" x 72")

Test Specifications: ASTM E 330-90 Standard Test Method for Structural Performance Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.

### Test Specimen

Frame: Two vinyl flange frames measured 83.75" x 71.5" overall. Left frame measured 47.5" x 71.5" overall. Right frame measured 35.5" x 71.5" overall, miter and welded corner construction. The aluminum mull measured 3" wide x 1" high x .125" thick.

Glazing: 13/16" Insulated unit. Consisting of two (2) panes of 3/16" annealed glass with 7/16" air space. Interior glazed with silicone backbedding compound and snap-in vinyl glazing bead.

Sealant: Silicone caulk was used on perimeter of main frame

Weepholes: Two (2) weep slots in each fixed picture window measuring .300" wide x 1.298" long located in exterior face of sill 4.5" from each jamb.

Reinforcement: None

Additional Description: The factory mull was attached to the wooden test buck top and bottom with a 10" x 2" x .125" aluminum mull clip and Two (2) # 10 x 2" phillips pan head screws. The aluminum mull was attached to the clip with one (1) #10 x 3" phillips pan head screws. The vinyl frames were attached to the mull with five (5) # 10 x .500" phillips pan head self tapping screws through each jamb.

Screen: N/A

Installation: Twenty four (24) # 10 x 2" phillips pan head were used to secure the specimen to the wooden test buck. Seven (7) in the head located 4.5", 13", 33", 43", 47.5", 62", and 80" measuring from left to right head and sill. Five (5) in each jamb located 5.75", 19.5", 36.5", 51", and 67.5" measuring from head to sill on jambs.

Surface Finish: White

*W. L. P. E.*  
4/2/02

**Performance Test Results**

<u>Paragraph No</u>	<u>Title of Test</u>	<u>Method</u>	<u>Measured</u>	<u>Allowed</u>	<u>Measured</u>	<u>Allowed</u>
2.1.4.2/4.4.2	Uniform Load Structural Permanent Deformation	ASTM E330-90 Ten (10) seconds loads	Def	Def	Set	Set
	@ 75.0 psf Positive		.382"	.411"	.035"	.288"
	@ 75.0 psf Negative		.353"	.411"	.036"	.288"

Deflection and Set reading taken at mid-span of mullion

Test Date: February 7, 2002

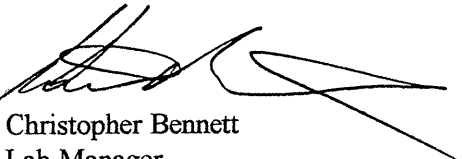
Test Completion Date: February 7, 2002

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.

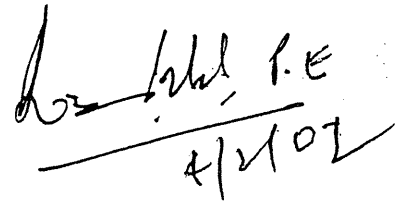
This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and they indicate compliance with the performance requirements (paragraphs as listed) of the above referenced specifications.

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.



Christopher Bennett  
Lab Manager  
Architectural Division



cc ALI (2)  
Specialty (2)  
Ramesh Patel P.E.  
File