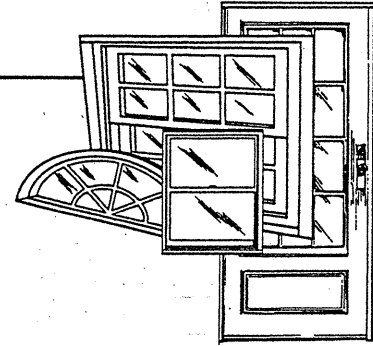


CERTIFIED TESTING LABORATORIES

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Report Number: CTLA-749W-1
 Report Date October 16, 2001

STRUCTURAL PERFORMANCE TEST REPORT

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

Product Type and Series: Series 1400 Vinyl Double Awning Window AP-R60 (48" x 60")

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 vinyl double awning mainframe measured 48" x 60". Each corner mitered and secured by corner weld construction. The vinyl "T"-mullion was secured to the main frame jambs with three (3) # 8 x 1" phillips pan head in each end.

Configuration: X
X

Ventilator: Top and bottom vents measured 46.375" x 28.75" overall with a clear lite opening of 41" x 23.75". Each corner mitered and secured by corner weld construction.

Weather Stripping:

Main Frame: Two (2) continuous strips of bulb vinyl .300" located in the two (2) interior pockets of the frame.

Vinyl "T" Mullion: Four (4) strips of bulb vinyl .300" located in the two (2) interior pockets on each side of mullion.

Vents: One (1) continuous strips of vinyl with .250" fin molded into exterior leg on vent.

Hardware & Location

<u>Quantity</u>	<u>Description</u>	<u>Location</u>
Two (2)	E'lan Awning Operators	Each vent bottom rail mid-span
Four (4)	E'lan Awning lock handle	Two (2) each jamb
Four (4)	Lock Keepers	One (1) each vent sash
Two (2)	Ashland 18" adjustable track of main frame vents	One (1) in head and sill
Four (4)	Ashland 14" stainless steel hinges	One (1) in each vent top and bottom rails
Four (4)	Snubbers	Two (2) each main frame head and bottom side mullion 16" from each end

- Glazing:** 7/8" insulated annealed glass unit consisting of two (2) lites of 1/8" annealed glass with .625" air space (interior dry) glazed. Captured with a vinyl snap in glazing stops. Four (4) vinyl fins were used in the interior of the glazing stops.
- Sealant:** A silicone type sealant was used to seal the main frame to the wooden test buck. (interior and exterior)
- Weepholes:** N/A
- Reinforcement:** One (1) extruded aluminum T- mullion in each vinyl T- mullion measuring 1.533"x 1.987"x .089".
- Additional Description:** N/A
- Screen:** N/A
- Installation:** Fourteen (14) # 10 x 3" phillips pan head S.S. fasteners were used to secure the specimen to the wooden test buck. Six (6) were used in the head and sill measuring from left jamb 6", 24" and 42". Eight (8) fasteners were used in each jamb measuring 6", 22", 38" and 54".
- 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 @ 1.57 psf	ASTM E283-91	0 cfm/ft ²	.3 cfm/ft ²
The tested specimen exceeds the performance levels specified in AAMA/NWWDA 101/1.S. 2-97 for Air Infiltration.				
2.1.3/4.3	Water Resistance 5.0 gph/ft ² WTP= 9psf	ASTM E547-93 ASTM E331-93	No Entry No Entry	No Entry No Entry
		Four (4), five (5) minute cycles One (1) fifteen (15) minute duration		
2.1.4.2/4.4.2	Uniform Load Structural Permanent Deformation @ 90 psf Positive @ 90 psf Negative	ASTM E330-90 Ten (10) seconds loads	.004" .028"	.164" .164"
2.1.7	Corner Weld Test	AAMA 101/1.S.2-97	PASSED	
2.1.8	Force Entry Resistance Test A Test B Test C Test D.E.F Test G	AAMA 1302.5-76	0" 0" 0" 0" 0"	1/2" 1/2" 1/2" 1/2" 1/2"

2.2.4.5.1 Hardware Load Test AAMA101/IS2-97 PASSED

Test Date: August 14, 2001

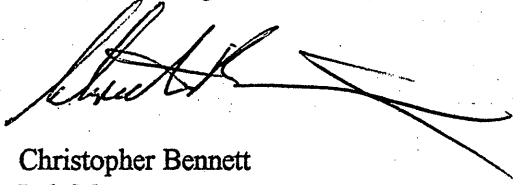
Test Completion Date : August 14, 2001

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.

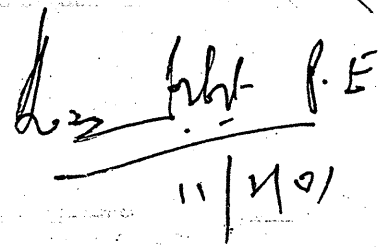
This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and they indicate compliance with the performance requirements (paragraphs as listed) of the above referenced specifications.

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 NAMI (2)
Specialty (2)
Ramesh Patel P.E. (1)
File (1)