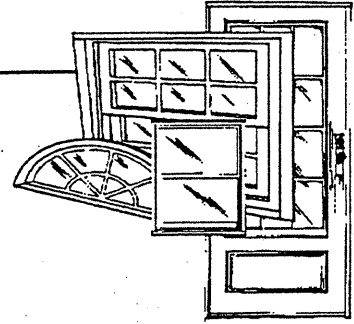


CERTIFIED TESTING LABORATORIES

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Report Number: CTLA-630W-1
Report Date: December 14, 2000

STRUCTURAL PERFORMANCE TEST REPORT

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

Product Type and Series: Series 1400 Vinyl Flange Frame Picture Window F-HC 70 (72" x 72")
(Downsized)

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 flange frame measured 72" x 72" overall, miter and welded corner construction. With clear lite opening measuring 68" x 68".

Glazing: Insulated unit, consisting of two (2) lites of 3/16" annealed glass with .375" air space. Interior dry glazed, captured with a square vinyl snap in glazing stops.

Sealant: Silicone caulk was used on perimeter of main frame

Weepholes: N/A

Reinforcement: N/A

Additional Description: N/A

Screen: N/A

Installation: Twenty (20) # 10 x 2.500" phillips pan head were used to secure the specimen to the wooden test buck. Six (6) in each of the main frame member located 6", 18", 36", 54", and 66", measuring from left to right head and sill and measuring from head to sill on jambs.

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 The tested specimen exceeds the performance levels specified in AAMA/NWWDA 101/1.S. 2-97 for Air Infiltration.	ASTM E283-91	.0 cfm/ft ²	.3 cfm/ft ²
*2.1.3/4.3	Water Resistance 5.0 gph/ft ² WTP=12PSF	ASTM E547-93 Four (4), five minute cycles ASTM E331-93 Fifteen (15)minute duration	No Entry No Entry	No Entry No Entry
2.1.4.2/4.4.2	Uniform Load Structural Permanent Deformation @ 105 psf Positive @ 112.5 psf Negative	ASTM E330-90 Ten (10) seconds loads	.00" .00"	.288" .288"
*2.1.7	Corner Weld Test	AAMA 101/I.S.2-97	Passed	Passed
*2.1.8	Forced Entry Resistance T-1 = 5 minutes. Tools used: A spatula (10.1.1.1) and a piece of stiff wire (10.1.1.2) The test specimen meets the performance Grade 10	ASTM F588-97 Test D Window Assemblies	Passed	Passed

*Reference CTLA-630W

Test Date: November 14, 2000

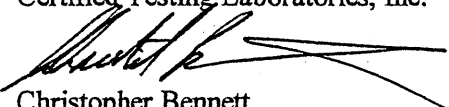
Test Completion Date: November 14, 2000

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

Handwritten: R.E.
12/19/00

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