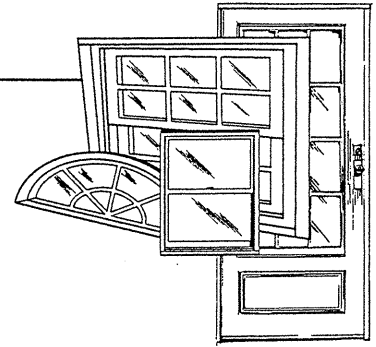


CERTIFIED TESTING LABORATORIES

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Report Number: CTLA-829W-2
Report Date: March 27, 2002

STRUCTURAL PERFORMANCE TEST REPORT

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

Product Type and Series: Configuration # 1 2.25" Aluminum Structural Mull.

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

Name: The mullions were tested as stand alone . The 2" x 12" PT wooden test buck measured 72" x 96" the horizontal mullion measured 96". The vertical mullion measured 60". The horizontal mullions were attached to the wooden buck with a extruded aluminum clip measuring 5.5" long x 2" wide x 2" high x .125" thick . The clips were attached to the wooden test buck with two (2) # 10 x 2" phillips pan head fasteners. The vertical mullion was attached at the bottom with an aluminum clip and at the top with two (2) # 10 x 2" screws through the horizontal mullion into the vertical mullion . The mull clip was free floating in the aluminum mull.

Glazing: N/A

Sealant: N/A

Weepholes: N/A

Reinforcement: None

Additional Description: The mullion were tested in a 2" x 12" PT test buck . To enable us to perform this test there were four (4) 2"x 4" panels with plywood free floating in the opening.

Screen: N/A

Installation: N/A

Surface Finish: White

Handwritten signature:

4/1/02

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 @ 90.0 psf Positive @ 90.0 psf Negative	ASTM E330-90 Ten (10) seconds loads	Def The Horizontal mullion .132" .426"	Def The Horizontal mullion .548" .548"	Set .011" .005"	Set .384" .384"
2.1.4.2/4.4.2	Uniform Load Structural Permanent Deformation @ 90.0 psf Positive @ 90.0 psf Negative	ASTM E330-90 Ten (10) seconds loads	Def The Vertical mullion .052" .079"	Def The Vertical mullion .548" .548"	Set .008" .005"	Set .384" .384"

Deflection and Set reading taken at mid-span of mullion

Test Date: February 7, 2002

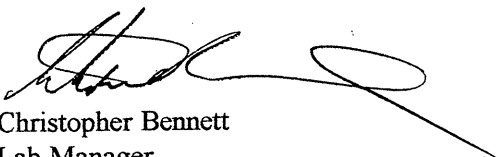
Test Completion Date: February 7, 2002

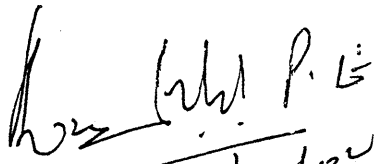
Remarks: Detailed drawings were available for laboratory records and comparison to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by CTL for a period of four (4) years. The results obtained apply only to the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


 Ramesh Patel P.E.
 4/2/02

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