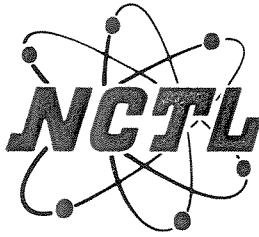


NATIONAL CERTIFIED TESTING LABORATORIES

**Builder's Choice
Structural Performance Test Report
NCTL 210-2683-1
Series "1000" Fixed
Aluminum Prime Window
Test Date: 10/11/01**

Bryan Parker
11/8/01



NATIONAL CERTIFIED TESTING LABORATORIES

1464 GEMINI BOULEVARD • ORLANDO, FLORIDA 32837
PHONE (407) 240-1356 • FAX (407) 240-8882

STRUCTURAL PERFORMANCE TEST REPORT

Report No: NCTL-210-2683-1
Test Date: 10/11/01
Report Date: 10/26/01

Client: Builders Choice
2625 Mercy Drive
Orlando, FL 32808

Test Specimen: Builders Choice "Series 1000" Fixed Aluminum Prime Window (F-C90).

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

TEST SPECIMEN DESCRIPTION

General: The test specimen was a fixed lite aluminum prime window measuring 60" wide by 60" high overall. The fixed lite was glazed to the frame members, providing a viewing area of 57" wide by 55" high. Frame members were not thermally broken. The frame was of double screw (#8 x 1" pan head) coped corner construction. The frame was flange mounted to the wood test buck with sixteen (16) (#8 x 2-1/4" pan head) screws.

Glazing: The fixed lite was interior glazed using 0.185" thick annealed glass with an adhesive silicone bedding and an extruded aluminum glazing bead. The extruded aluminum glazing bead was screwed in place using (#6 x 1" self-tapping head) screws on 10" centers.

Weeps: No weeps employed.

Interior & Exterior Surface Finish: White painted aluminum

Sealant: Frame corners were sealed with a small joint sealant.

Screen: No screen employed.

Handwritten signature: David Portnoy
11/6/01

TEST RESULTS

<u>Par. No.</u>	<u>Title Of Test</u>	<u>Measured</u>	<u>Allowed</u>
2.1.2	Air Infiltration - ASTM E283 1.57 psf (25 mph)	<0.01 cf _m /ft ²	0.3 cf _m /ft
2.1.3	Water Resistance - ASTM E547 5.0 gph/ft ² WTP = 6.0 psf	No Leakage	No Leakage
2.1.4.2 **	Uniform Load Structural - ASTM E330 60.0 psf Exterior 60.0 psf Interior	0.000" 0.000"	0.240" 0.240"

OPTIONAL PERFORMANCE

4.3	Water Resistance - ASTM E547 5.0 gph/ft ² WTP = 15.0 psf	No Leakage	No Leakage
4.4.2 **	Uniform Load Structural - ASTM E330 135.0 psf Exterior 135.0 psf Interior	0.000" 0.000"	0.240" 0.240"

** No glass breakage or permanent damage causing the unit to be inoperable

TEST COMPLETED 10/11/01

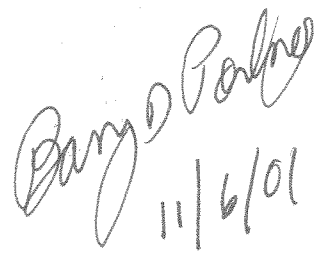
This test specimen meets (or exceeds) the performance levels specified in Table 2.1 of AAMA/NWWDA 101/I.S. 2-97 for air infiltration. The listed results were secured by using the designated test methods and indicate compliance with the performance requirements of the referenced specification paragraphs for the F-C90 product designation.

Detailed drawings were available for laboratory records and compared 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 NCTL for a period of four (4) years. The results obtained apply only to the specimen tested. No conclusions of any kind regarding the adequacy or inadequacy of the glass in the test specimen may be drawn from this test. This report does not constitute certification of the product which may only be granted by a certification program validator.

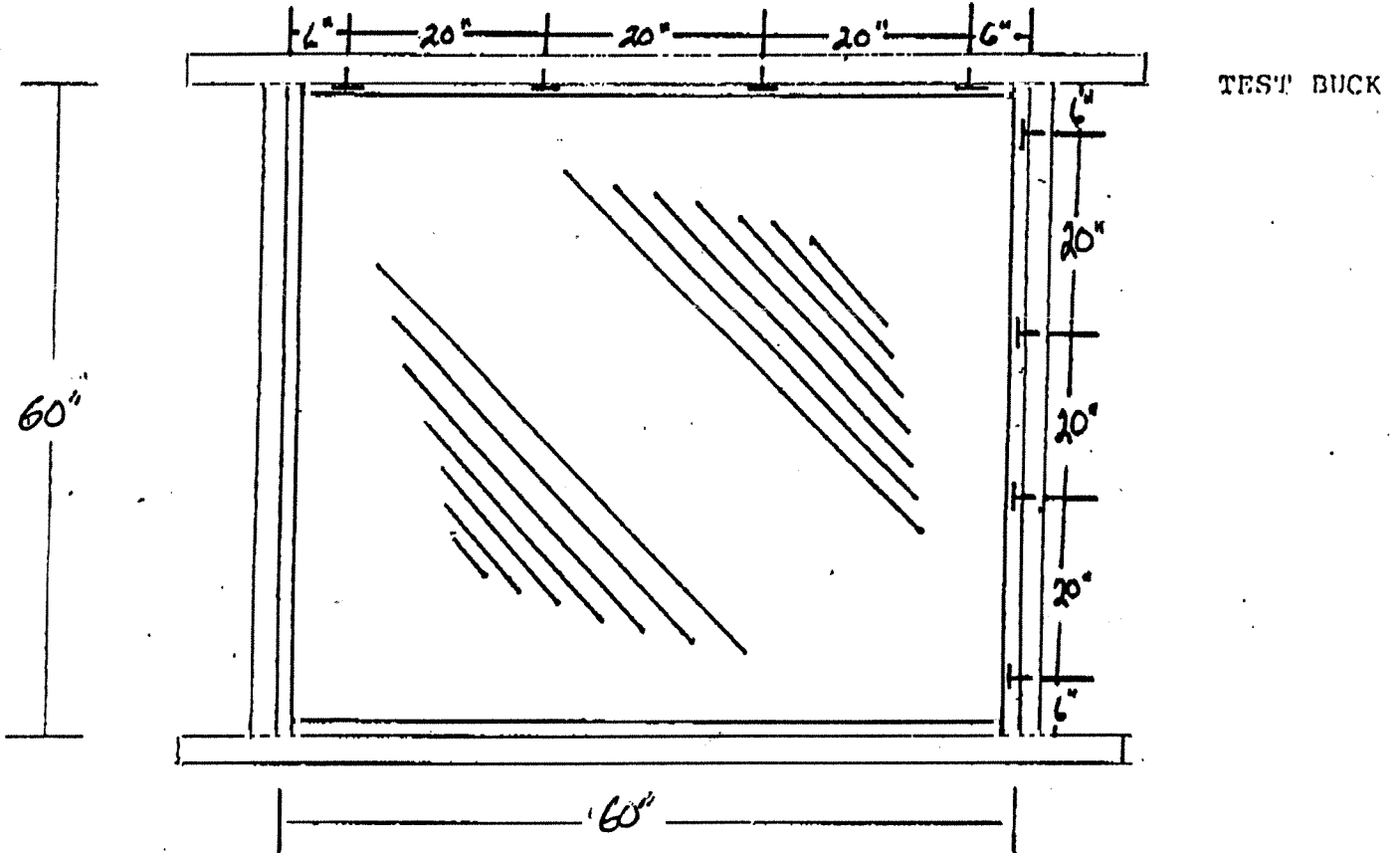
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DAN CONYERS
Laboratory Manager



EASTENER LOCATIONS



NOTE: Head and sill fasteners are identical.
Jamb fasteners identical

The test specimen was mounted to the
test buck using (#8 x 2 1/4")
screws located at location shown

METRO-DADE COUNTY REQUIRED

NATIONAL CERTIFIED
TESTING LABORATORIES

JOB NO.: NCTL-210-2683-1

COMPANY: Builders Choice

TEST DATE: 10-11-01

Bryan Park
12/6/01