

# NATIONAL CERTIFIED TESTING LABORATORIES

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## STRUCTURAL PERFORMANCE TEST REPORT

REPORT NO.: NCTL-210-2088-1  
TEST DATE: 10-25-98  
REPORT DATE: 12-07-98

**CLIENT:** Florida Extruders International Incorporated  
2540 Jewett Lane  
Sanford, FL 32771-1600

**TEST SPECIMEN:** Florida Extruders International Incorporated's Series "500" Aluminum Sliding Glass Door.  
(Type OXO) (SGD-R30)

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

### TEST SPECIMEN DESCRIPTION

**GENERAL:** The sample tested was a three panel type "OXO" aluminum sliding glass door measuring 11'11-1/4" wide by 6'7-7/8" high overall. The left fixed panel measured 4'0-13/16" wide by 6'7-3/16" high; the center active panel measured 4'0" wide by 6'7-3/16" high; the right fixed panel measured 3'10-13/16" wide by 6'7-3/16" high. Frame and panel members were not thermally broken. The fixed panels were secured to the jamb with two 2" long aluminum retainers each fastened to the jamb stile with a single screw. One (1) extruded aluminum jamb adapter was fastened to the right fixed panel butt-stile using four (4) (# 6 x 1/2") pan head screws. One extruded aluminum sill adapter was fastened at the sill directly in front of the center active panel using three (3) 1/2" long tek screws. One plunger type security lock was fastened to the active lock stile with the keeper fastened to the jamb adapter at lock position. One adjustable metal single roller assembly was used at each end of the active panel bottom rail. The frame was of double screw coped corner construction. Panel corners were of single screw overlapping coped corner construction.

**INSTALLATION FASTENERS:** The frame was mounted to the test buck using thirty-six (36) (# 8 x 1") flat head screws.

**GLAZING:** All panels were channel glazed using 3/16" thick tempered clear glass with a flexible vinyl glazing bead.

**WEATHERSTRIP:** Triple strips of polypile weatherstrip (0.190" high) were located at each jamb. Double strips of polypile weatherstrip (0.190" high) were located at each panel top rail, the right fixed panel interlock stile. Quadruple strips of polypile weatherstrip (0.190" high) were located at the jamb adapter. A single strip of polypile weatherstrip (0.350" high) was located at the active panel bottom rail and sill adapter.

**WEEPS:** One weep notch measuring 1-1/8" x leg height was located at each end of each sill vertical roller leg.

**INTERIOR & EXTERIOR SURFACE FINISH:** White painted aluminum.

**SEALANT:** A small-joint sealant was applied to the jamb/sill corners.

**INSECT SCREEN:** One (1) insect screen measuring 4'0" wide by 7'11-1/4" high were of coped overlap type corner construction. The corners used one screw. The screen employed a push type lock with the keeper extruded into the jamb. One (1) nylon single roller was located at each end of the top rail.

**TEST RESULTS**

<u>PARAGRAPH NO.</u>	<u>TITLE OF TEST</u>	<u>MEASURED</u>	<u>ALLOWED</u>
2.2.19.5.1	Operating Force Active Panel To Open In Motion	5# Max. 4# Max.	30# 20#
2.1.2	Air Infiltration 1.57 psf (25 mph)	< 0.30 CFM/FT <sup>2</sup>	0.30 CFM/FT <sup>2</sup>
2.1.3	* Water Resistance - 5.0 GPH/FT <sup>2</sup> WTP = 3.00 psf	No Entry	No Entry
2.1.4	Uniform Load Structural 30.0 psf exterior 30.0 psf interior	0.182" 0.079"	0.384" 0.384"
2.2.19.5.2	Deglazing Test Center Active Panel Top Rail (50#) Bottom Rail (50#) Jamb Stile (70#) Meeting Stile (70#)	2.4% (0.015") 3.4% (0.021") 3.0% (0.019") 4.2% (0.026")	< 100% < 100% < 100% < 100%

**OPTIONAL PERFORMANCE**

4.3	Water Resistance - 5.0 GPH/FT <sup>2</sup> WTP = 5.25 psf	No Entry	No Entry
4.4.2	Uniform Load Structural 45.0 psf exterior 45.0 psf interior	0.299" 0.304"	0.312" 0.312"

TEST COMPLETED: 10-25-98

\*Test performed with and without insect screen.

This test specimen meets the performance criteria level of SGD-R30 of the AAMA/NWWDA 101/I.S. 2-97 specification.

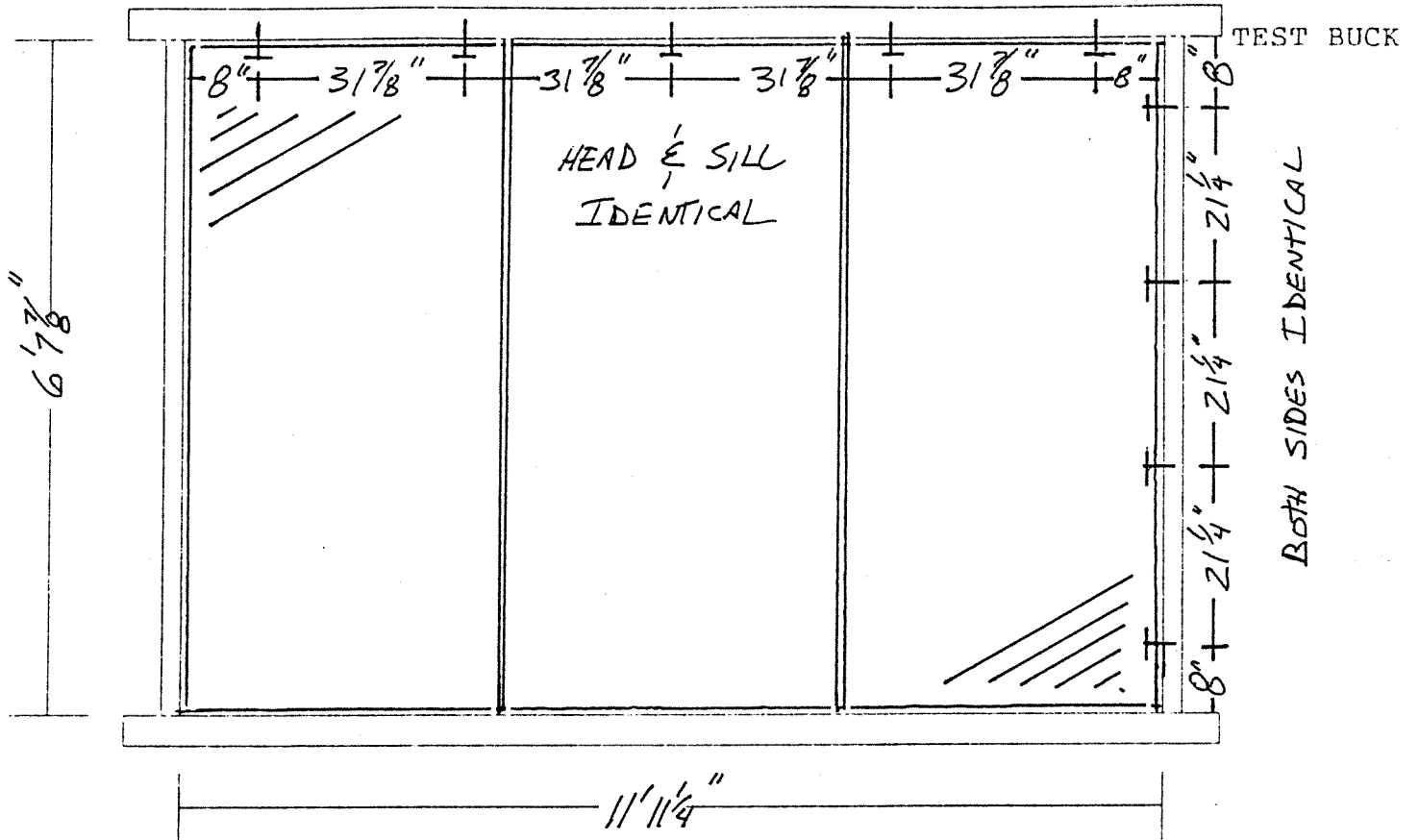
Detailed drawings were available for laboratory records and compared to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by NCTL for a period of four (4) years. The results obtained apply only to the specimen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

NATIONAL CERTIFIED TESTING  
LABORATORIES, INC.

MICHAEL E. LANE  
Division Manager

*Banyo Portno*  
2/2/98

FASTENER LOCATIONS



The test specimen was mounted to the test buck using THIRTY SIX ( 36 ) (#8 x 1" screws located at location shown  $\perp = \text{Two (2)}$ )

METRO-DADE COUNTY REQUIRED

*Barry P. ...*

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