

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-210-2089-1

TEST DATE: 09-24-98

REPORT DATE: 09-24-98

REVISED DATE: 04-16-99

LABORATORY CERTIFICATION NO.: 98-0430.01

CLIENT: Florida Extruders International Inc.
2540 Jewett Lane
Sanford, FL 32771-1600

TEST SPECIMEN: Florida Extruders International Inc.'s Series "Milestone 1000" Aluminum Sliding Glass Door. (Type XXO) (SGD-C30)

TEST SPECIFICATION: AAMA/NWWDA 101/I.S. 2-97, "Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors." ASTM E330-90, ASTM E331-90, ASTM E283-91 & ASTM E547-91 Test Method.

Revision Note: Rating, pressure and water revised per lab data sheets. Inserted ASTM E test methods under "Test Specification" heading.

TEST SPECIMEN DESCRIPTION

GENERAL: The sample tested was a three panel type "XXO" aluminum sliding glass door measuring 15'0" wide by 8'0-3/4" high overall. The left active and right panel measuring 5'0-1/2" wide by 7'11-1/4" high; the center active panel measured 5'0-1/2" wide by 7'11-1/4" high; the right fixed panel was secured to the jamb with three 2" long aluminum retainers each fastened to the jamb stile with a single screw. One plunger-type security lock was fastened to the left active lock stile with the keeper fastened to the left jamb. One adjustable metal single roller assembly was used to the left active lock stile with the keeper fastened to the left jamb. One adjustable metal single roller assembly was used at each end of the active bottom rails. The frame was of double screw coped corner construction. Panel top rail/stile corners were of double screw overlapping coped corner construction. Panel bottom rail/stile corners were of single screw overlapping coped corner construction.

INSTALLATION: The frame was mounted to the test buck using fifty-two (52) (# 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.

WSTP: Double strips of polypile weatherstrip (0.190" high) were located at each interlock stile. Double strips of polypile weatherstrip (0.360" high) were located at each jamb. A single strip of flexible flap vinyl weatherstrip was located at the bottom rail. Double strips of polypile weatherstrip (0.190" high) were located at each panel top rail. A polypile dust plug measuring 1-1/2" x 1" x .250" high was located at the sill under each interlock stile.

PROFESSIONALS IN THE SCIENCE OF TESTING

Danya Portney
2/22/02

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.

SCREEN: Two (2) insect screens measuring 5'1" wide by 7'11-1/4" high and 4'10" wide x 7'11-1/4" high were of coped overlap type corner construction. Top rail/stile corners used two (2) screens. Bottom rail/stile corners used a single screw. The left screen employed a plunger type lock with the keeper attached to the jamb. The center screen employed a plain pull handle. One (1) metal single roller was located at each end of each bottom rail.

TEST RESULTS

<u>PARAGRAPH NO.</u>	<u>TITLE OF TEST</u>	<u>MEASURED</u>	<u>ALLOWED</u>
2.2.9.5.1	Operating Force Active Panel To Open In Motion	5# Max. 4# Max.	30# 20#
2.1.2	Air Infiltration 0.57 psf (15 mph) 1.57 psf (25 mph)	0.06 CFM/FT 0.16 CFM/FT	----- 0.37 CFM/FT
2.1.3	* Water Resistance - (5.0 GPH/FT ²) WTP = 3.00 psf	No Entry	No Entry
2.1.4	Uniform Load Structural 30.0 psf exterior 30.0 psf interior	0.178" 0.081"	0.384" 0.384"
2.2.9.5.2	Deglazing Left 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%
2.2.9.5.2	Center Active Panel Top Rail (50#) Bottom Rail (50#) Jamb Stile (70#) Meeting Stile (70#)	4.0% (0.025") 5.0% (0.031") 1.4% (0.009") 2.7% (0.017")	< 100% < 100% < 100% < 100%

Barry Patton 2/22/02

OPTIONAL PERFORMANCE

3.3	* Water Resistance - (5.0 GPH/FT ²) WTP = 7.50 psf (standard sill) WTP = 15.0 psf (high sill)	No Entry No Entry	No Entry No Entry
3.4.1	Uniform Load Structural 45.0 psf exterior 45.0 psf interior	0.379" 0.380"	0.384" 0.384"

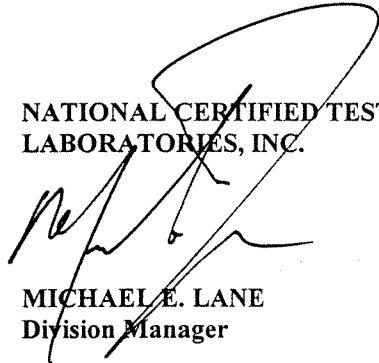
TEST COMPLETED: 09-24-98

* Test performed with and without insect screen.

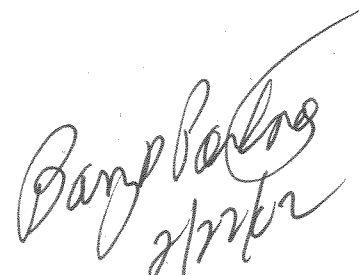
This test specimen meets the performance criteria level of SGD-C30 of the AAMA/NWWDA 101/I.S. 2-97 specification.

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.

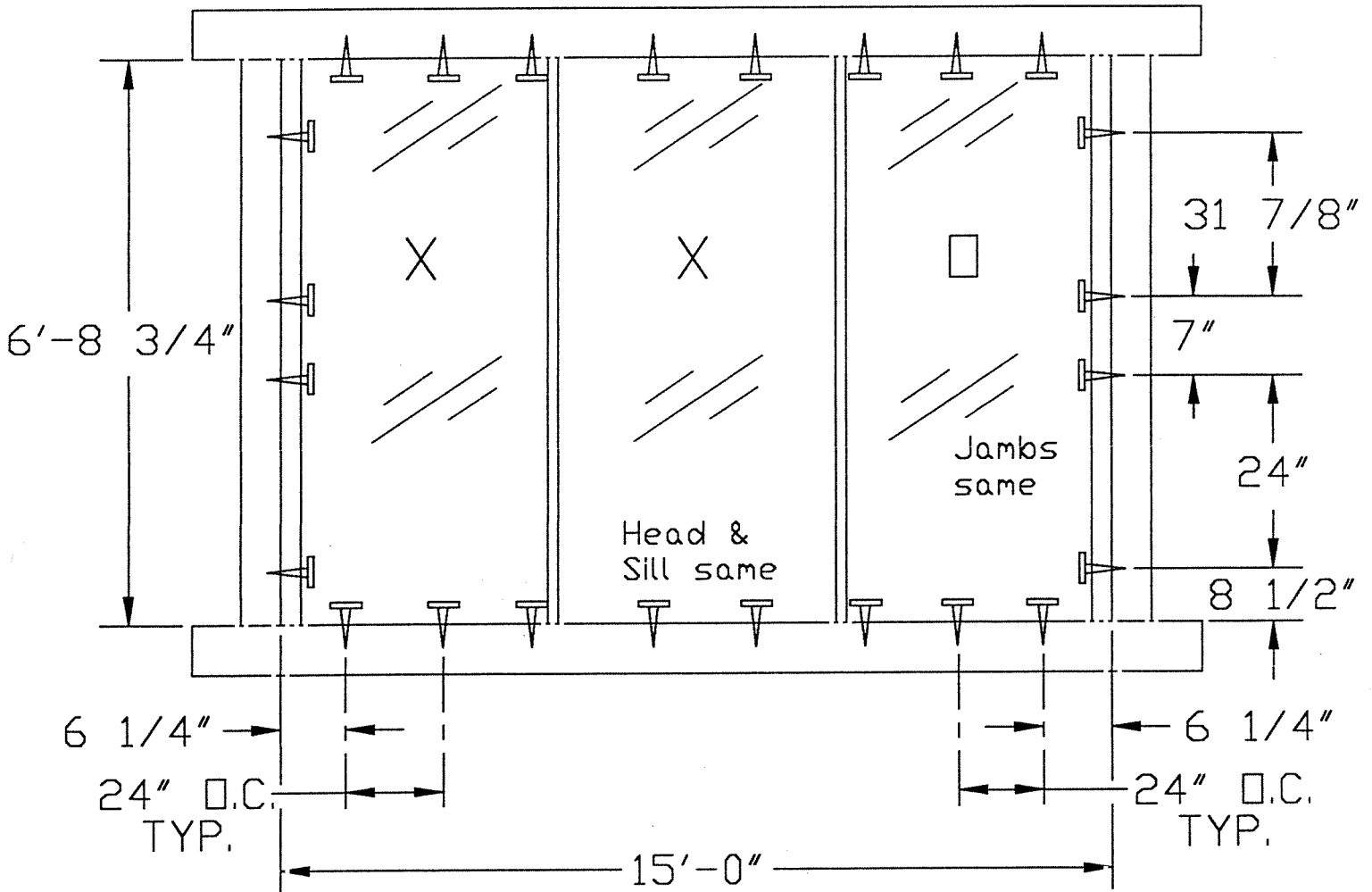


MICHAEL E. LANE
Division Manager



Barry Barlow
2/2/98

FASTENER LOCATIONS



The test specimen was flange mounted to the test buck using forty-eight (48) #8 X 1" FH screws at locations shown.

⊢ - DENOTES SCREW

Barry A. Parker
2/2/98

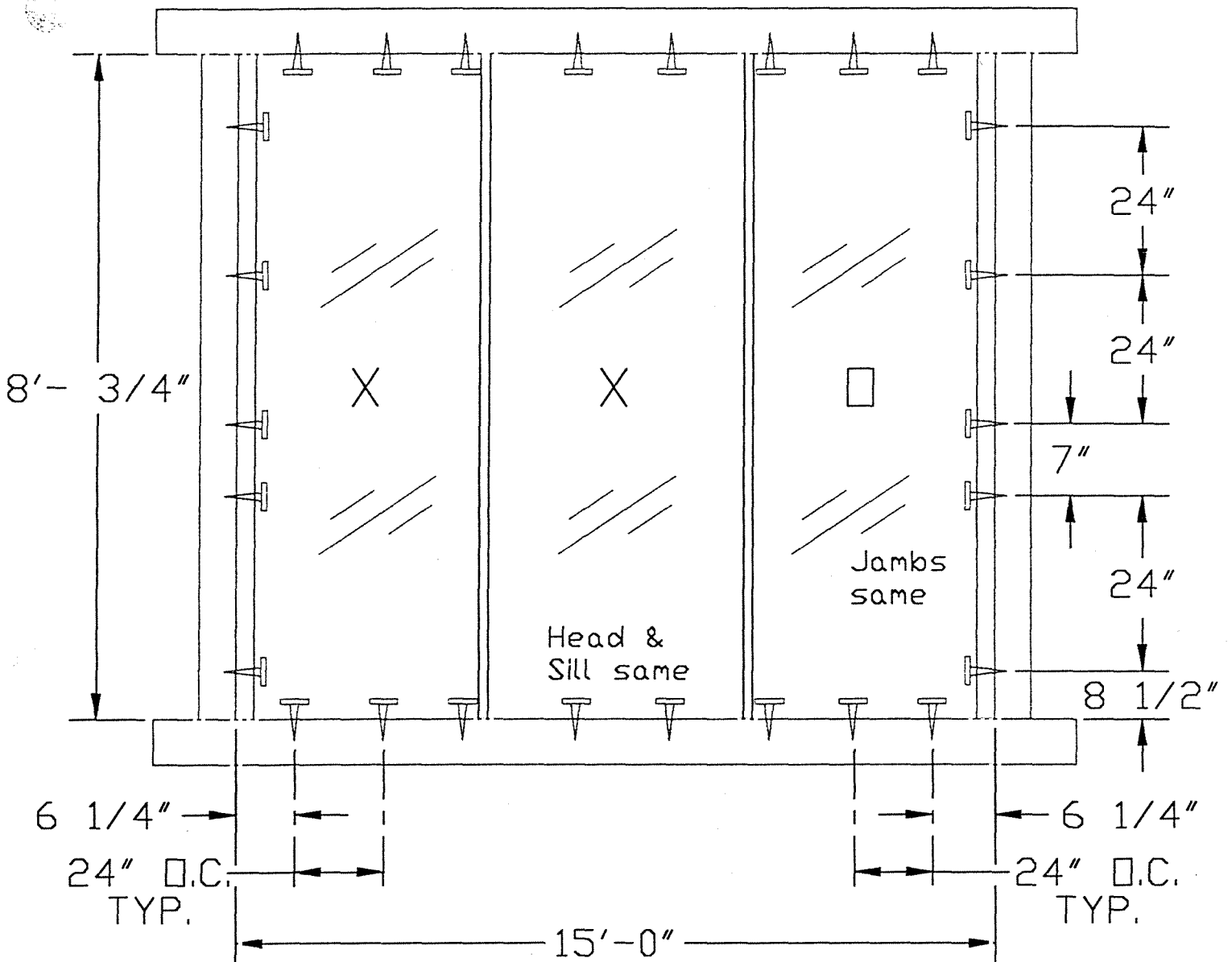
NATIONAL CERTIFIED
TESTING LABORATORIES

JOB NO. : NCTL-210-2089-1,2,3

COMPANY : FLORIDA EXTRUDERS

TEST DATE : 9-24-98

FASTENER LOCATIONS



The test specimen was flange mounted to the test buck using fifty-two (52) #8 X 1' FH screws at locations shown.

▷ - DENOTES SCREW

Barry Parker
2/2/98

NATIONAL CERTIFIED
TESTING LABORATORIES

JOB NO. : NCTL-210-2089-1,2,3

COMPANY : FLORIDA EXTRUDERS

TEST DATE : 9-24-98