



# **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-210-2126-1  
**TEST DATE:** 11-13-98  
**REPORT DATE:** 12-05-98  
**EXPIRATION DATE:** 12-31-02

**CLIENT:** Custom Window Systems  
981 N.E. 16<sup>th</sup> Street  
Ocala, FL 34470

**TEST SPECIMEN:** Custom Window Systems Series "9000" (Type OX) Aluminum Sliding Glass Door.  
(SGD-C30)

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

## **TEST SPECIMEN DESCRIPTION**

**GENERAL:** The sample tested was a two panel type "OX" aluminum sliding glass door measuring 10'0" wide by 8'0" high overall. Both panels measured 5'0-5/16" wide by 7'11-1/16" high. Frame and panel members were not thermally broken. The fixed panel was secured to the jamb with two 2" long aluminum retainers each fastened to the jamb stiles with two (2) screws at 24" from each end of the jamb stile. One claw-type security lock was fastened to the active panel lock stile with the keepers fastened to the jamb at lock position. One adjustable metal single roller assembly was located at each end of the active bottom rail. The frame was of double screw butt-type corner construction. Panel bottom rail corners were of single screw butt-type corner construction. The frame and panel top rail corners were of double screw butt-type corner construction.

**INSTALLATION:** The frame was mounted to the test buck using forty-four (44) (# 8 x 1") flat head screws.

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

**WSTP:** A single strip of centerfin weatherstrip (0.300 high) was located at each jamb weatherstrip track. Double strips of polypile weatherstrip (0.400" high) were located at each panel bottom rail. Double strips of centerfin weatherstrip (0.300" high) were located at interlock. An adhesive backed polypile dust plug measuring 2" x 1" (0.450" high) was located on the sill under the interlock stiles.

**WEEPS:** One weep notch measuring 1-1/2" leg height was located at each end of each vertical sill roller leg.

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

**SEALANT:** Frame corners were sealed with a small-joint sealant.

**INSECT SCREEN:** One (1) insect screen measuring 4'0-1/4" wide by 7'11-1/4" high was of single screw butt-type corner construction. The screen employed fiberglass mesh cloth a rigid vinyl spline. One (2) adjustable metal roller was located at each end of the bottom rail. One (1) plunger type lock was located at mid-span of the lock stile.

**PROFESSIONALS IN THE SCIENCE OF TESTING**

*Barry Portnoe*  
3/24/02

TEST RESULTS

<u>PARAGRAPH NO.</u>	<u>TITLE OF TEST</u>	<u>MEASURED</u>	<u>ALLOWED</u>
2.2.19.5.1	Operating Force To Open In Motion	10# Max. 4# Max.	30# 20#
2.1.2	Air Infiltration 1.57 psi (25 mph)	Passed 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 = 4.50 psf	No Entry	No Entry
2.1.4	Uniform Load Structural 45.0 psf Exterior 45.0 psf Interior	0.207" 0.251"	0.380" 0.380"
2.2.1.6.2	Deglazing Active Panel		
	Top Rail (50#)	14.1% (0.055")	< 100%
	Bottom Rail (50#)	6.0% (0.038")	< 100%
	Interlock Stile (70#)	10.4% (0.065")	< 100%
	Jamb Stile (70#)	7.8% (0.049")	< 100%

TEST COMPLETED: 11-13-98

\* 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

*Bary D. Perkins*

MEL/ld 12/16/98

*Bary D. Perkins*  
3/24/02