

NATIONAL CERTIFIED TESTING LABORATORIES

8350 PARKLINE BLVD SUITE 320 * ORLANDO, FLORIDA 32809

PHONE (407) 240-1356 * FAX (407) 240-8882

STRUCTURAL PERFORMANCE TEST REPORT

Report No: NCTL-210-3012-1A

Test Date: 4/06/04

Report Date: 4/12/04

Client: Kennedy Skylights

5294 Tower Way, Sanford, FL 32773

Test Specimen: Kennedy Skylights Model SFG4" Curb (48" x 48")
(Design Pressure Positive 80 psf, Negative 80 psf)

Test Specification: TAS 202, ASTM E283 "Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen."; ASTM E330 "Test Method for Structural Performance of Exterior Windows, Curtain walls, and Doors by Uniform Static Air Pressure Difference."; ASTM E331 "Test Method for Water Penetration of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference."

TEST SPECIMEN DESCRIPTION

General: The test specimen was a welded 4" curb mounted aluminum clad self flashing glass skylight with wood interior, with a unit overall dimension of 55-1/4" x 55-1/4" including the mounting flange. The skylight sash was constructed of aluminum extruded metal with welded corners. The skylight provided a daylight opening of 43" x 43". The curb was mounted to the test buck using thirty two (32) 1-1/4" ring shank drywall nails, located 3-1/2" from each corner then at 8-1/2" intervals 1/2" in from edge. This specimen employed a 1" strip of closed cell weather strip foam around the curb perimeter. The hood was interior dropped glazed using a wood glazing frame. The wood glazing frame was fastened using sixteen (16) (#6 1") PHCS tek screws, 2" from each end then at 8-1/2" intervals. The overall glass thickness was 3/4" thick consisting of (exterior to interior) 1/8" tempered glass, stainless steel spacer and 1/8" tempered glass. The unit was filled with Argon gas.

TEST RESULTS

AIR INFILTRATION TEST

Air infiltration test was conducted in accordance with ASTM E 283

	Measured	Allowed
Air at 1.57 psf	0.02 CFM/ft ²	.3 cfm/ft ²
Air at 6.24 psf	0.04 CFM/ft ²	.1 cfm/ft ²

PROFESSIONALS IN THE SCIENCE OF TESTING

WATER INFILTRATION TEST

Water infiltration test was conducted in accordance with ASTM E 331

Water @ 12 psf (2.45") Passed No Entry
For 15 minute duration

UNIFORM LOAD STRUCTURAL TEST

Uniform load structural test was conducted in accordance with ASTM E 330

Design load + 80 psf, -80 psf

<i>Positive Loads</i>	<i>Time (Sec)</i>	<i>Psf Load</i>	<i>Max Def</i>	<i>Perm. set</i>
<i>Design load</i>	30	80.0	0.069"	0.008"
<i>Test load</i>	30	120.0	0.076"	0.010"
<i>Negative Loads</i>	<i>Time (Sec)</i>	<i>Psf Load</i>	<i>Max Def</i>	<i>Perm. set</i>
<i>Design load</i>	30	80.0	0.051"	0.007"
<i>Test load</i>	30	120.0	0.068"	0.008"

TEST COMPLETED 4/06/04

The test specimen meets the performance levels specified in TAS 202 specifications.

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 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.

NATIONAL CERTIFIED TESTING LABORATORIES

RICK MOFFET
Laboratory Technician

CHRISTOPHER BENNETT
Division Manager