

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-210-3012-1

Test Date: 4/06/04

Report Date: 4/12/04

Expiration Date: 4/06/08

Client: Kennedy Skylights
5294 Tower Way
Sanford, FL 32773

Test Specimen: Kennedy Skylights Model SFG4" Curb SKG-R80 (48" x 48")

Test Specification: AAMA/WDMA 1600-00/I.S.2-2000 "Voluntary Specifications for Testing Skylights."

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 AAMA/WDMA 1600 / I.S.7-2000, paragraph 4.1.5. ASTM E 283

	<i>Measured</i>	<i>Allowed</i>
<i>Air at 1.57 psf</i>	<i>0.02 cfm/ft²</i>	<i>.3 cfm/ft²</i>
<i>Air at 6.24 psf</i>	<i>0.04 cfm/ft²</i>	<i>.1 cfm/ft²</i>

PROFESSIONALS IN THE SCIENCE OF TESTING

WATER INFILTRATION TEST

Water infiltration test was conducted in accordance with AAMA/WDMA 1600/I.S.7-2000, paragraph 4.1.6. 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 AAMA/WDMA 1600/I.S.7-2000 paragraph 4.1.8. ASTM E 330

Design load + 80 psf, -80 psf

Positive Loads	Time (Sec)	Psf Load	Max Def	Perm. set
1/2 test	60	60.0	N/A	N/A
test	60	120.0	0.076"	.010"
Negative Loads	Time (Sec)	Psf Load	Max Def	Perm. set
1/2 test	30	60.0	N/A	N/A
test	30	120.0	0.068"	.008"

TEST COMPLETED 4/06/04

The test specimen meets the performance levels specified in AAMA 1600-00 specification. (SKG-R-80)

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 LABORATOIRES

RICK MOFFETT
Laboratory Technician

CHRISTOPHER BENNETT
Division Manager