



Architectural Testing

FALL PREVENTION TEST REPORT

Rendered to:

**American Skylites
525 113th Street
Arlington, TX 76011**

Title	Summary of Results
OSHA Rating	No penetration at 200 lbs.
Optional performance	No penetration at 1000 ft./lbs.

Report No:010-46744.01

Test Date: 09/04/03

Report Date: 09/15/03

Expiration Date: 09/04/07

2865 Market Loop, Suite B
Southlake, TX 76092
phone: 817.410.7202
fax: 817.424.8463
www.archtest.com



Architectural Testing

FALL PREVENTION TEST REPORT

Rendered to:

**American Skylites
525 113th Street
Arlington, TX 76011**

Report No:010-46744.01

Test Date: 09/04/03

Report Date: 09/15/03

Expiration Date: 09/04/07

Project Summary: Architectural Testing, Inc. (ATI) was contracted by American Skylites to perform tests on a Series/Model RCLM Curb Mount aluminum skylight. The sample tested successfully met the OSHA performance requirements for skylight screens.

Test Specification: The test specimen was evaluated in accordance with the following:

*Occupational Safety and Health Administration/U.S. Department of Labor Regulations
(Standards – 29 CFR) – 1910.23 (e) (8).*

Test Specimen Description:

Series/Model: RCLM Curb Mount

Type: Curb mount aluminum skylight

Configuration: OOO 45 degree sloped glazing with vertical ends
OOO and a 90 degree angle at the center peak.

Overall Size: 149 1/2" wide by 101" long by 52" tall.

Glazing Size: Interior panel: 44" wide by 66" high
Exterior panel: 46" wide by 70" high

Glazing Type: Exterior panel: 0.177" polycarbonate.
Interior panel: 0.125" polycarbonate.

2865 Market Loop, Suite B
Southlake, TX 76092
phone: 817.410.7202
fax: 817.424.8463
www.archtest.com

Glazing Details:

Sloped section: The interior panel was exterior glazed using double sided tape and a cap-bead of backbedding compound at the exterior for the vertical mullions and horizontal mullion. The interior panel was drop glazed at the frame perimeter and set in backbedding compound. The exterior panel was exterior glazed against a santoprene gasket at the vertical mullion and sealed with two santoprene gaskets to an aluminum mullion cover at the exterior. The exterior panel was secured in the vertical mullions with a 1/2" bolt through the polycarbonate and captured within the interior cavity of the mullion. The exterior panel was drop glazed at the frame perimeter and set in backbedding compound. The exterior panel was exterior glazed against double sided tape at the horizontal mullion and sealed with backbedding compound to an aluminum mullion cover at the exterior.

Vertical section: The interior panel was interior glazed against double sided tape at the frame. The interior panel was drop glazed and set in backbedding compound at the mullions. The exterior panel was drop glazed at the frame and set in backbedding compound with a santoprene wedge gasket at the exterior. The exterior panel was drop glazed and set in backbedding compound at the mullions.

Frame Construction: All frame members were formed from thermally broken extruded aluminum. Vertical mullions were formed from 0.080" thick extruded aluminum. The aluminum mullion cover was secured to the mullion with 5/16" x 2 1/2" stainless steel lag screws located 2 1/2" from each end and on 10" centers. The horizontal mullions were formed from 2" x 2" by 1/8" thick aluminum angle. All frame and mullion joints were welded.

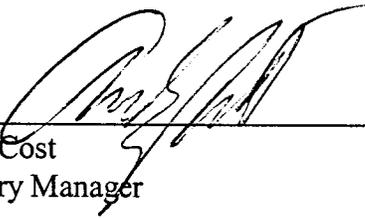
Installation: The unit was installed on a 2x6 pressure treated pine curb and secured using 5/16" x 2 1/2" stainless steel lag screws located 4" from each corner and on 14" centers thereafter. The unit was secured to the curb with sealant full perimeter.

Test Results:

<u>Test Load</u>	<u>Location</u>	<u>Results</u>	<u>Allowed</u>
1. 200 lbs/60 seconds	Center of skylight	No penetration	No penetration
2. 200 lbs/60 seconds	Center of longest span and 1" from edge	No penetration	No penetration
3. 200 ft/lbs	Center of longest span and 1" from edge	No penetration	No penetration
4. 400 ft/lbs	Center of longest span and 1" from edge	No penetration	No penetration
5. 600 ft/lbs	Center of longest span and 1" from edge	No penetration	No penetration
6. 800 ft/lbs	Center of longest span and 1" from edge	No penetration	No penetration
7. 1000 ft/lbs	Center of longest span and 1" from edge	No penetration	No penetration

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator. This report may not be reproduced except in full without the approval of Architectural Testing.

For ARCHITECTURAL TESTING, INC:



Andy B. Cost
Laboratory Manager



John Waskow
Regional Manager

AC:ac
010.46744.01

DOCUMENT CONTROL ADDENDUM #010-46744.00

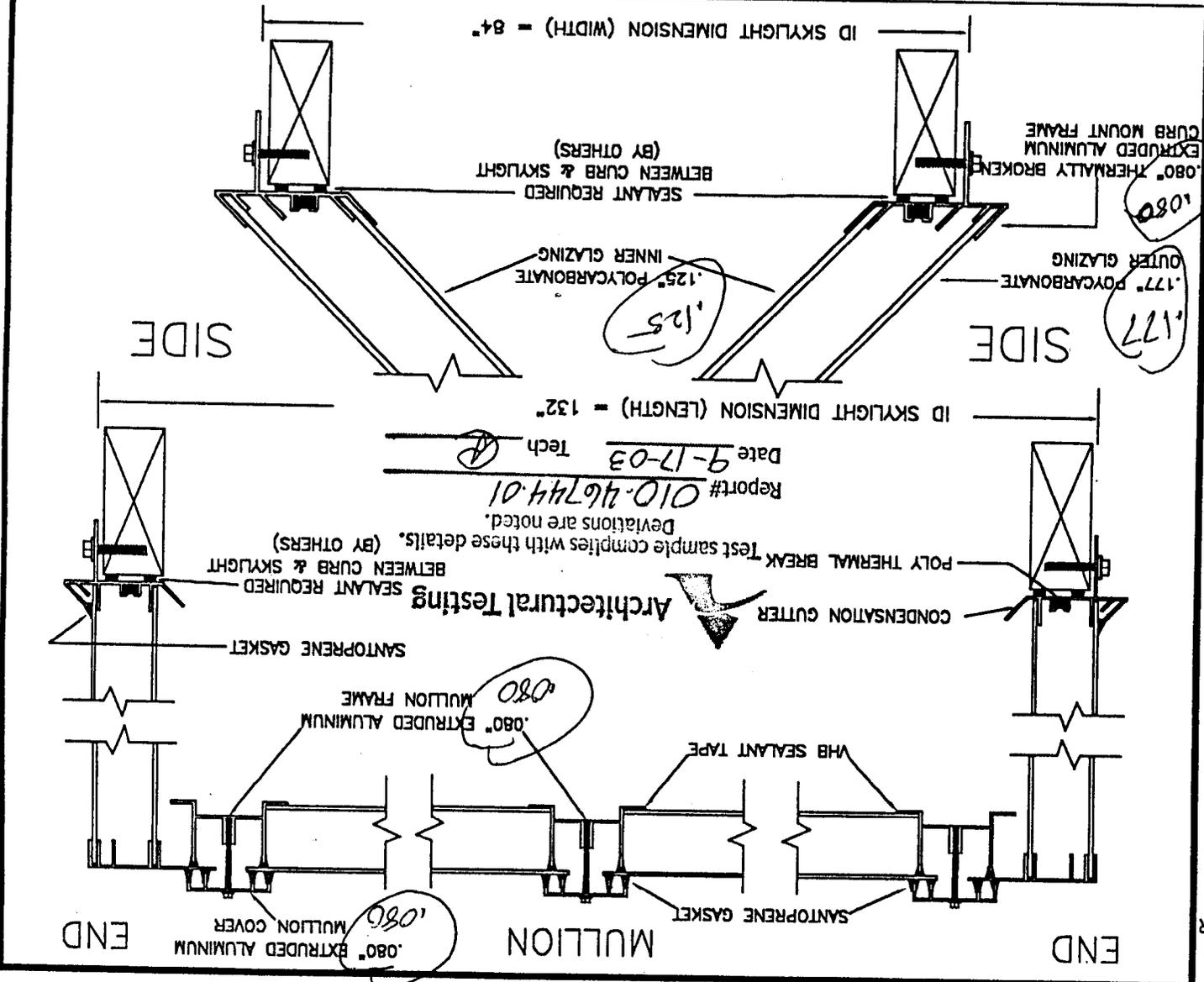
Current Issue Date: 09/17/03

Report No.: 010-46744.01

Requested by: American Skylites
Purpose: OSHA fall prevention test
Issue Date: 09/15/03
Comments:

TEST	TEST PRESSURE	ALLOWED
AIR INFILTRATION ASTM E283	6.24 PSF (50 MPH)	0.03 CFM/FT
WATER PENETRATION ASTM E547/E331	TEST PRESSURE 15.0 PSF	NO LEAKAGE
UNIFORM LOAD ASTM E530	POSITIVE 69.0 PSF NEGATIVE 75.0 PSF	60.0 PSF MIN 40.0 PSF MIN

AMERICAN SKYLITES
525 113th STREET ARLINGTON, TEXAS 76011
Phone 800.772.7401 Fax 800.445.7282



- 1: GLAZING MATERIAL: .125" ACRYLIC .177" POLYCARBONATE
- TWIN WALL POLYCARBONATE: 6MM 8MM 10MM 16MM
- TRIPLE WALL POLYCARBONATE: 16MM
- 2: GLAZING COLOR: CLEAR BRONZE WHITE OTHER
- TWIN WALL: CLEAR BRONZE WHITE
- TRIPLE WALL: WHITE
- 3: FRAME FINISH: MILL BRONZE ANODIZED CLEAR ANODIZED CUSTOM COLOR

RIDGE LITE CURB MOUNT
BAYS = Three Equal
ID CURB = 84" X 132"
FALL PROTECTION TEST SKYLIGHT

Report# 010-46744-01
Date 9-17-03
Tech

Architectural Testing
Test sample complies with these details. (BY OTHERS)
SEALANT REQUIRED BETWEEN CURB & SKYLIGHT
CONDENSATION CUTTER
POLY THERMAL BREAK

