

**PERFORMANCE TEST REPORT**

Rendered to:

AMERICAN SKYLIGHTS  
525 113th St.  
Arlington, TX 76011

Report No.: 68472.01-801-44  
Test Date: 11/20/06  
Report Date: 12/01/06

**Project Summary:** Architectural Testing, Inc. (ATI) was contracted by American Skylight Systems to perform fall protection tests on a Model: IAD TCMPYR-FG polycarbonate curb mount pyramid skylight.

**Test Method(s):** 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:** IAD TCMPYR-FG

**Product Type:** Polycarbonate curb mount pyramid skylight

**Overall Size:** 83" wide by 83" long by 21-1/2" tall

**Opening Size:** 79" wide by 79" long by 21-1/2" tall

**Overall Area:** 47.84 ft<sup>2</sup>

**Finish:** Mill finish aluminum

**Glazing Details:** Double glazed from exterior with pyramid shaped 3/16" polycarbonate at the exterior and pyramid shaped 1/8" polycarbonate at the interior. Sealant tape was used between the two pyramids and between the interior pyramid and the frame. Wet sealant was applied between the retainer and exterior pyramid. The retainer was secured to the frame with #10 x 3/8" hex head sheet metal screws located 4" from each corner and on 12" centers thereafter.

**Frame Construction:** Thermally-broken welded aluminum frame with welded aluminum retainer ring.

**Installation:** The unit was installed into a 2x6 SPF buck using #8 by 1-5/8" drywall screws located 3" from corners and 12" on center thereafter.

**Test Results:** The results are tabulated as follows:

**Dead load Tests, (Standards- 29 CFR) - 1910.23(e)(8)**

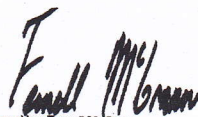
<u>Test Load</u>	<u>Location</u>	<u>Results</u>	<u>Allowed</u>
1. 200 lbs/60 seconds	Center of skylight	No penetration	No penetration
2. 200 lbs/60 seconds	Center of shortest spar	No penetration	No penetration

**Optional Drop Tests, center of dome**

<u>Test Load</u>	<u>Results</u>	<u>Allowed</u>
1. 200 lbf	No penetration	No penetration
2. 400 lbf	No penetration	No penetration
3. 600 lbf	No penetration	No penetration
4. 800 lbf	No penetration	No penetration
5. 1000 lbf	No penetration	No penetration

Detailed drawings and a copy of this report will be retained by ATI for a period of four years from the original test date. This report is the exclusive property of the client so named herein and is applicable to the sample tested. Results obtained are tested values and do not constitute an opinion or endorsement by this laboratory. This report may not be reproduced, except in full, without approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC:



Digitally Signed by: Fernell McGrann

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Fernell McGrann  
Technician



Digitally Signed by: Andy Cost

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Andy Cost  
Laboratory Manager

fm:ajl  
68472.01-801-44  
Attachment(s): (pages)  
Drawings (1)

1: GLAZING MATERIAL

INNER OUTER  
 POLYCARBONATE DOME

2: GLAZING COLOR

CLEAR    
 BRONZE    
 WHITE    
 OTHER

3: FRAME FINISH

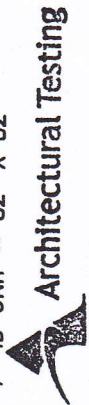
MILL    
 BRONZE ANODIZED    
 CLEAR ANODIZED    
 CUSTOM COLOR

4: PYRAMID PITCH (OPTIONAL)

22 DEGREE (1/2 WIDTH X .414)   
 30 DEGREE (1/2 WIDTH X .577)

FOR CURB MOUNT SKYLIGHTS PROVIDE  
 OUTSIDE DIMENSION OF FINISHED CURB

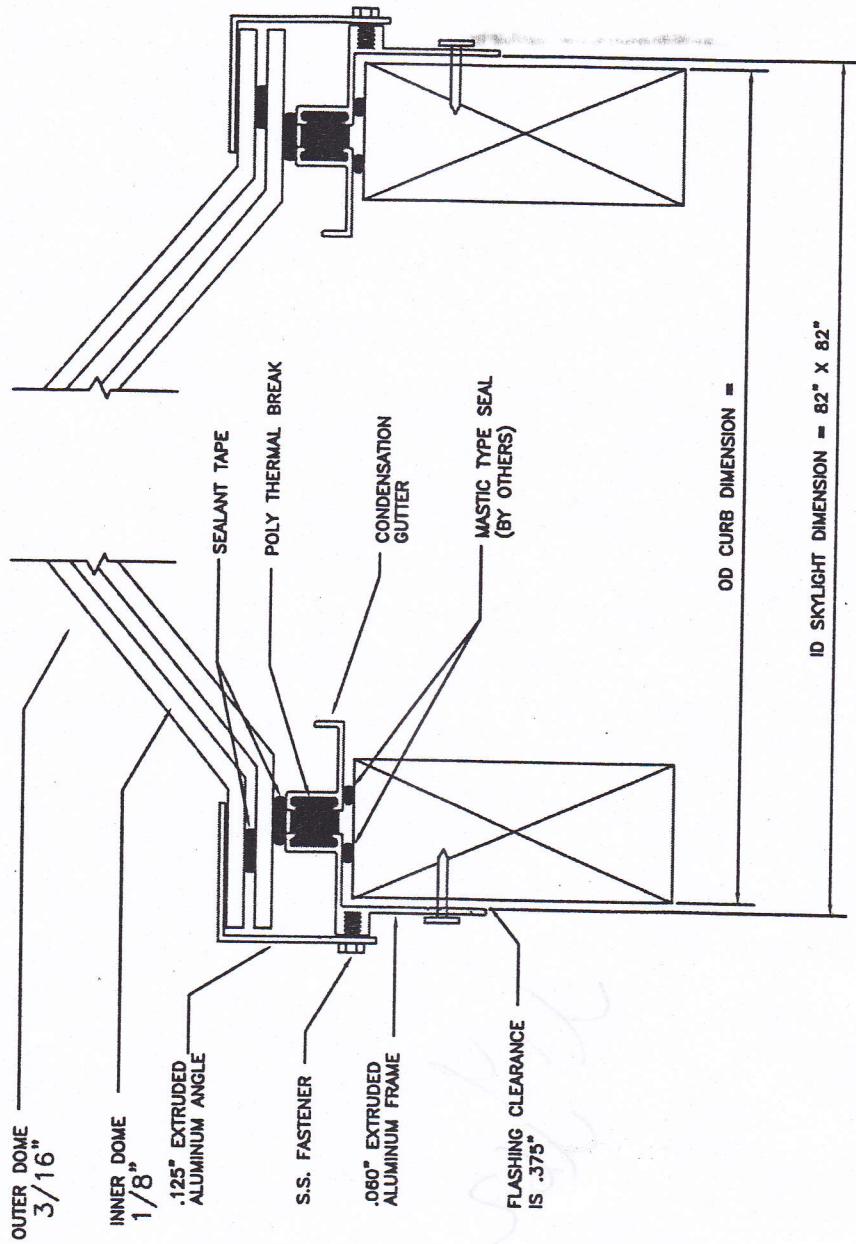
QTY: 1 ID UNIT = 82" X 82"



Test sample complies with these details.  
 Deviations are noted.

Report# 6847a.01-801-44

Date 12-06-06 Tech FH



FALL PROTECTION CURB MOUNT

SPECIFICATIONS	
TEST METHOD	ALLOWED
AIR INFILTRATION ASTM E283	6.24 PSF (50 MPH) 0.03 CFM/FT
WATER PENETRATION ASTM E547/E531	TEST PRESSURE 15.0 PSF NO LEAKAGE
UNIFORM LOAD IMPACT OSHA SPECIFICATIONS	POSITIVE 1000 ft/lbs NO FAILURE MEETS MIN 775 ft/lbs



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

**1: GLAZING MATERIAL**

POLYCARBONATE DOME     INNER     OUTER

**2: GLAZING COLOR**

CLEAR           

BRONZE           

WHITE           

OTHER    \_\_\_\_\_       

**3: FRAME FINISH**

MILL           

BRONZE ANODIZED           

CLEAR ANODIZED           

CUSTOM COLOR    \_\_\_\_\_       

**4: PYRAMID PITCH (OPTIONAL)**

22 DEGREE (1/2 WIDTH X .414)   

30 DEGREE (1/2 WIDTH X .577)   

40 DEGREE (1/2 WIDTH X .839)   

FOR SELF FLASHING SKYLIGHTS PROVIDE  
ROUGH OPENING OR ID OF SKYLIGHT DIMENSION

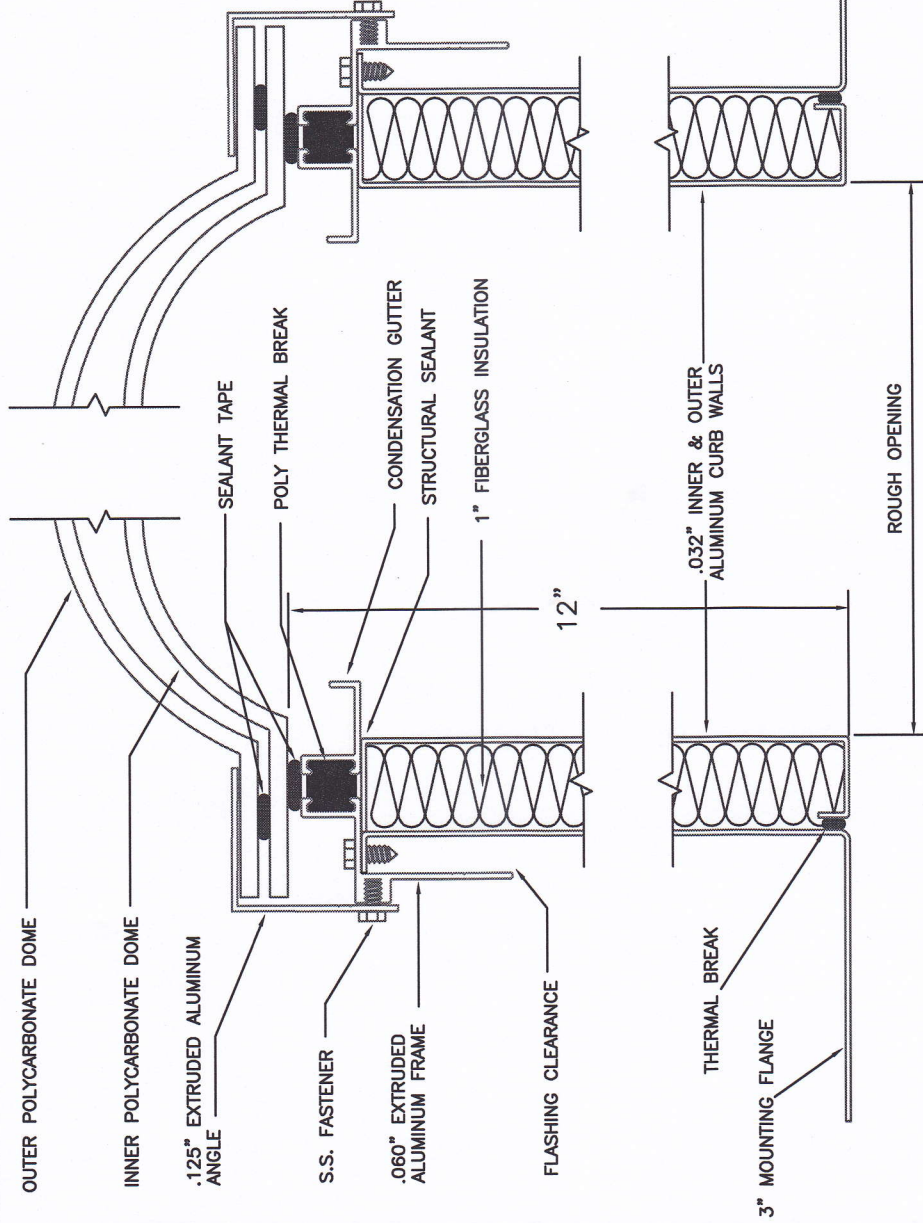
QTY:    R.O. =    X

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# FALL PROTECTION 12" THERMALLY BROKEN & INSULATED SELF FLASHING



**AMERICAN SKYLITES**  
525 113th STREET ARLINGTON, TEXAS 76011  
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TEST METHOD		SPECIFICATIONS	
TEST METHOD		TEST PRESSURE	
AIR INFILTRATION: ASTM E283	6.24 PSF (50 MPH)	<0.06 CFM/FT	ALLOWED
WATER PENETRATION ASTM E547/E331	12.0 PSF	NO LEAKAGE	NO LEAKAGE
UNIFORM LOAD: OSHA SPECIFICATIONS	POSITIVE 1200 ft/lbs (min 775 ft/lbs)	NO FAILURE	NO FAILURE
IMPACT: DADE COUNTY PA 201-94	LARGE MISSILE	NO FAILURE	NO FAILURE
PRESSURE: DADE COUNTY PA 202-94	Positive 180psf/ Negative 120psf	NO FAILURE	NO FAILURE
CYCLIC WIND: DADE COUNTY PA 203-94	Positive & Negative 60psf @ 3350 cycles	NO FAILURE	NO FAILURE