

**TEST REPORT**

**Report No.:** C1079.01-801-44

**Rendered to:**

AMERICAN SKYLITES  
Arlington, Texas

**PRODUCT TYPE:** Rectangular Curb Mount Double Dome Skylight

**SERIES/MODEL:** Dade/ 60 & 100

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

<b>Test Date:</b>	07/13/12
<b>Report Date:</b>	07/23/12
<b>Revision 1:</b>	10/18/13
<b>Test Record Retention End Date:</b>	07/23/16



**1.0 Report Issued To:** American Skylites  
525 113th Street  
Arlington, Texas 76011

**2.0 Test Laboratory:** Architectural Testing, Inc.  
2865 Market Loop  
Southlake, Texas 76092  
(817) 410-7202

**3.0 Project Summary:**

**3.1 Product Type:** Rectangular Curb Mount Double Dome Skylight

**3.2 Series/Model:** Dade/100 & 60

**3.3 Compliance Statement:** Results obtained are tested values and were secured by using the designated test method(s).

**3.4 Test Date:** 07/13/2012

**3.5 Test Location:** Architectural Testing, Inc. test facility in Southlake, Texas.

**3.6 Test Sample Source:** The test specimen was provided by the client. Representative samples of the test specimen will be retained by Architectural Testing for a minimum of four years from the test completion date.

**3.7 Drawing Reference:** The test specimen drawings have been reviewed by Architectural Testing and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Architectural Testing per the drawings located in Appendix A. Any deviations are documented herein or on the drawings.

**3.8 List of Official Observers:**

<u>Name</u>	<u>Company</u>
Michael Boyd	American Skylites
Curtis Kieser	Architectural Testing, Inc.
Clint Barnett	Architectural Testing, Inc.
Jesus Mata	Architectural Testing, Inc.
Andy Cost	Architectural Testing, Inc.

#### **4.0 Test Specification(s):**

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

A 200 lb weight, fabricated from a bag filled with sand, was placed on the center of the skylight for a minimum of 60 seconds. The bag was removed and the test unit was inspected for any signs of damage or failure. The bag was then dropped from varying heights above the skylight starting at 1', continuing to 6'. No damage was recorded.

## 5.0 Test Specimen Description:

### 5.1 Product Sizes:

#### Test Specimen #1 (Dade100):

Overall Area: 3.5 m <sup>2</sup> (37.90 ft <sup>2</sup> )	Width		Height	
	millimeters	inches	millimeters	inches
Overall size	2581	101-5/8	1364	53-11/16

#### Test Specimen #2:

Overall Area: 3.5 m <sup>2</sup> (37.90 ft <sup>2</sup> )	Width		Height	
	millimeters	inches	millimeters	inches
Overall size	2581	101-5/8	1364	53-11/16

### 5.2 Frame Construction:

#### Specimen # 1

The frame was anchored to the mounting ring utilizing 5/16" x 1-1/2" self tapping screws spaced 4" from each corner then every 12" thereafter on top. The frame was also anchored to the mounting ring on the side utilizing #8 x 1/2" screws spaced 4" from each corner then 12" thereafter.

Frame Member	Material	Description
All members	Aluminum	Custom extruded, mill finish

	Joinery Type	Detail
All corners	Welded	Welded along top face & side face

#### Specimen # 2 (Dade 60)

The frame was anchored to the mounting frame utilizing #8 x 1/2" screws spaced 4" from each corner then every 12" thereafter.

Frame Member	Material	Description
All members	Aluminum	Custom extruded, thermally broken, mill finish

	Joinery Type	Detail
All corners	Welded	Welded along top face & side face

## 5.0 Test Specimen Description: (Continued)

### 5.3 Mounting Ring Construction:

#### Specimen # 1

Mounting Ring Member	Material	Description
All members	Aluminum	Custom extruded, mill finish

	Joinery Type	Detail
All corners	Welded	Welded along top face & side

#### Specimen # 2

Member	Material	Description
All members	Aluminum	Custom extruded, mill finish

Member	Joinery Type	Detail
All corners	Welded	Welded along top face & side
Retaining Ring	#12 x 1-1/2" Self Tapping Screw with neoprene washer	Top face of retaining ring located 4" from each corner and 12" on center thereafter
Retaining Ring	#12 x 1/2" Screw	Lateral face of retaining ring located 4" from each corner and 9" on center thereafter

**5.4 Weatherstripping:** No weatherstripping was utilized.

### 5.5 Glazing:

Glazing Type	Interior Lite	Exterior Lite	Glazing Method
Double Dome	1/8" clear polycarbonate	1/8" clear polycarbonate	Interior dome glazed with sealant tape along frame, exterior dome glazed with sealant tape along interior dome.

Location	Quantity	Daylight Opening		Glazing Bite
		millimeters	inches	
Fixed skylight	1	2470 x 1257	97-1/4 x 49-1/2	1"

## 6.0 Installation:

The specimen was flush mounted to a Spruce-Pine-Fir wood buck.

Location	Anchor Description	Anchor Location
Unit to curb lateral face	#8 x 1/2" stainless steel screws	4" from each corner then 12" full perimeter

## 7.0 Test Results: The results are tabulated as follows:

### 7.1 OSHA Safety Test

#### Specimen # 1

Test	Load Location	Results
200 lb	Center Skylight	No visible damage

#### Specimen # 2

Test	Load Location	Results
200 lb	Center Skylight	No visible damage

*Note: The 200 lbf weight was gently applied perpendicular to the center of dome. After 60 seconds of rest time, there was no visible damage to skylight.*

### 7.2 OSHA Safety Drop Test

#### Specimen # 1

Test Method	Load Location	Results
200 lb-ft (1' drop height)	Inset 1" from perimeter edge	No visible damage
400 lb-ft (2' drop height)	Inset 1" from perimeter edge	No visible damage
600 lb-ft (3' drop height)	Inset 1" from perimeter edge	No visible damage
800 lb-ft (4' drop height)	Inset 1" from perimeter edge	No visible damage
1000 lb-ft (5' drop height)	Inset 1" from perimeter edge	No visible damage
1200 lb-ft (6' drop height)	Inset 1" from perimeter edge	No visible damage

**7.0 Test Results:** (Continued)

Specimen # 2

<b>Test Method</b>	<b>Load Location</b>	<b>Results</b>
200 lb-ft (1' drop height)	Inset 1" from perimeter edge	No visible damage
400 lb-ft (2' drop height)	Inset 1" from perimeter edge	No visible damage
600 lb-ft (3' drop height)	Inset 1" from perimeter edge	No visible damage
800 lb-ft (4' drop height)	Inset 1" from perimeter edge	No visible damage
1000 lb-ft (5' drop height)	Inset 1" from perimeter edge	No visible damage
1200 lb-ft (6' drop height)	Inset 1" from perimeter edge	No visible damage

The service life of this report will expire on the stated Test Record Retention End Date, at which time such materials as drawings, data sheets, samples of test specimens, copies of this report, and any other pertinent project documentation, shall be discarded without notice.

If test specimen contains glazing, no conclusions of any kind regarding the adequacy or inadequacy of the glazing in any glazed test specimen(s) can be made. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimen(s) tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, Inc.

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Clint Barnett  
 Technician

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Andy Cost  
 Laboratory Manager

TB:hd

Attachments (pages): This report is complete only when all attachments listed are included.  
 Appendix-A: Drawings (2)

This report produced from controlled document template ATI 00514, issued 02/28/11.



### Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
1	10/18/13	Appendix A	Replaced Drawings



**Architectural Testing**

Test Report No.: C1079.01-801-44  
Report Date: 07/23/12  
Test Record Retention End Date: 07/23/16

## **Appendix A**

### **Drawings**

1: GLAZING MATERIAL \_\_\_\_\_

INNER OUTER

POLYCARBONATE DOME

2: GLAZING COLOR \_\_\_\_\_

CLEAR

BRONZE  N/A

WHITE

OTHER \_\_\_\_\_

3: FRAME FINISH \_\_\_\_\_

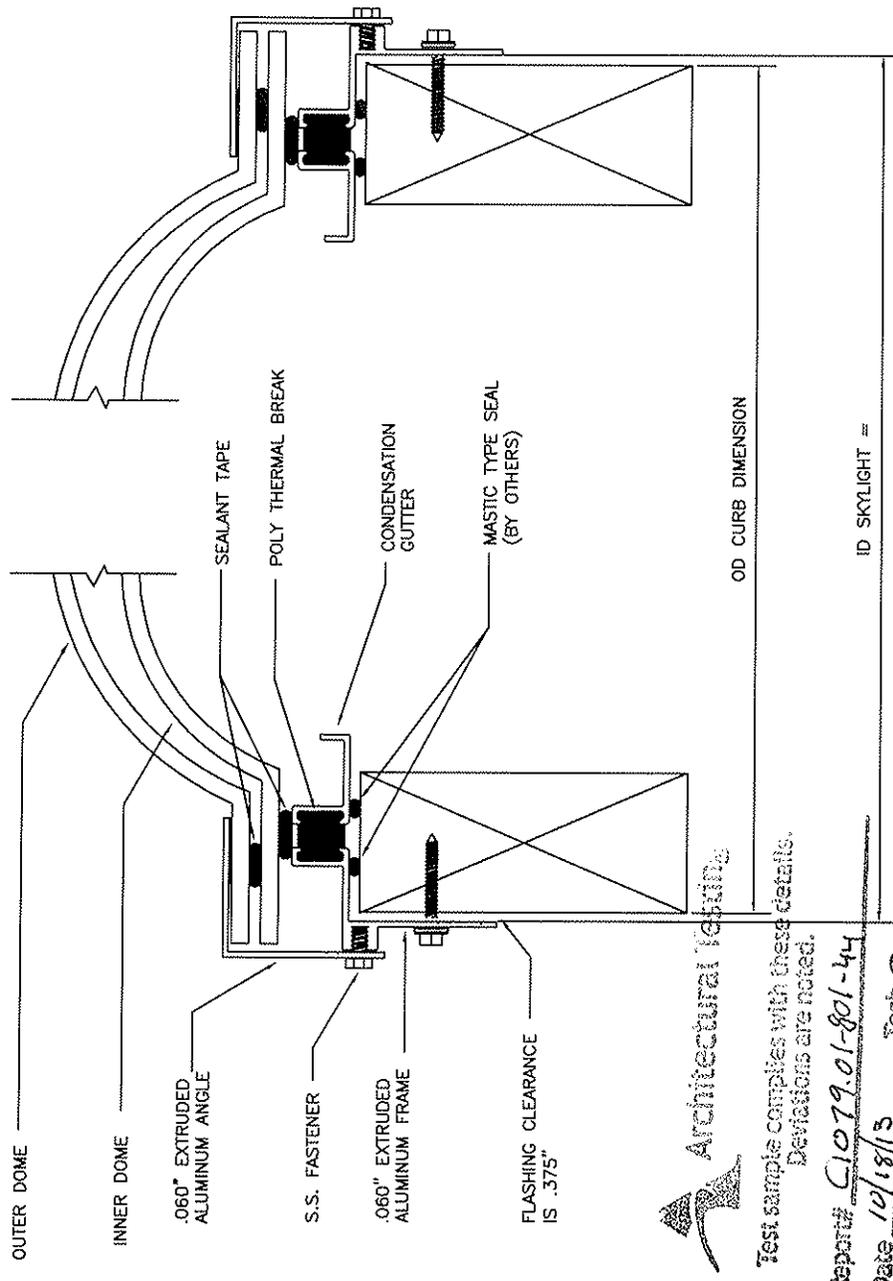
MILL

BRONZE ANODIZED

CLEAR ANODIZED

CUSTOM COLOR \_\_\_\_\_

**DADE COUNTY APPROVED**  
**NOA #12-0319.10**  
**EXPIRES 05.21.17**



**Architectural Fabrics**

Test sample complies with these details.  
 Deviations are noted.

Report# C107901-801-44

Date 10/18/15 Tech DA

**DADE COUNTY APPROVED CURB MOUNT**

For glazing, finish & sizing approval only. See NOA for full details.

**DADE60**

SPECIFICATIONS		
TEST METHOD	TEST	ALLOWED
IMPACT PA 201-94	SEE NOA	SEE NOA
STATIC AIR PRESSURE PA 202-94	SEE NOA	NO LEAKAGE
PRESSURE LOADING PA 203-94	POSITIVE 180.0 PSF NEGATIVE 120.0 PSF	DESIGN PRESSURE 60.0 PSF



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

1: GLAZING MATERIAL

INNER OUTER

POLYCARBONATE DOME

2: GLAZING COLOR

CLEAR    
 BRONZE  N/A   
 WHITE    
 OTHER \_\_\_\_\_

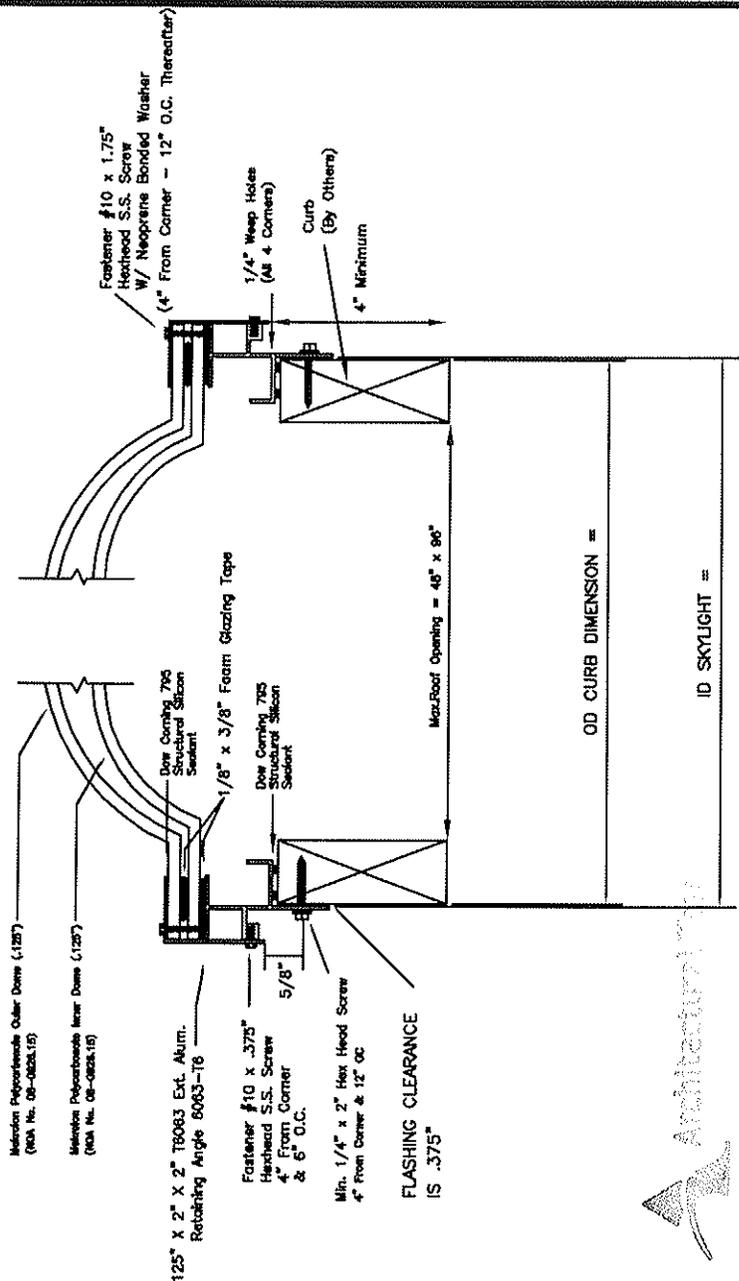
3: FRAME FINISH

MILL   
 BRONZE ANODIZED   
 CLEAR ANODIZED   
 CUSTOM COLOR \_\_\_\_\_

**DADE COUNTY APPROVED**  
**NOA #09-0316.02**  
**EXPIRES 07.01.14**

FOR CURB MOUNT SKYLIGHTS PROVIDE  
 OUTSIDE DIMENSION OF FINISHED CURB

QTY: O.D. CURB=  
 QTY: O.D. CURB=  
 QTY: O.D. CURB=  
 QTY: O.D. CURB=  
 QTY: O.D. CURB=



Test sample completed by [unclear] & [unclear]  
 Details are noted.

Report: C1079.01-801-414  
 Date: 10/18/13 Test # 100 +/- PSF

**DADE 100 DADE COUNTY APPROVED CURB MOUNT**

SPECIFICATIONS		ALLOWED
TEST METHOD	TEST	
IMPACT PA 201-94	SEE NOA	SEE NOA
STATIC AIR PRESSURE PA 202-94	SEE NOA	NO LEAKAGE
PRESSURE LOADING PA 203-94	SEE NOA	DESIGN PRESSURE 100 PSF



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