

TEST REPORT

Report No.: C5811.02-801-44

Rendered to:

AMERICAN SKYLITES
Arlington, Texas

PRODUCT TYPE: Skylight
SERIES/MODEL: Patriot

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

Test Date:	04/12/13
Report Date:	05/15/13
Test Record Retention End Date:	05/15/17

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: Skylight

3.2 Series/Model: Patriot

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

3.4 Test Date: 04/12/2013

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
Ryan Tucker	American Skylites
Chris Longoria	Architectural Testing, Inc.
Seth Cagle	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 5'. A final drop was made from 10'. No damage was recorded.

5.0 Test Specimen Description:

5.1 Product Size:

Test Specimen:

Overall Area: 6.2 m ² (67.08 ft ²)	Width		Height	
	millimeters	inches	millimeters	inches
Overall size	2496	98-1/4	2496	98-1/4

5.2 Frame Construction:

Frame Member	Material	Description
All members	Aluminum	Extruded aluminum

	Joinery Type	Detail
All corners	Welded	Mitered and welded

5.3 Weatherstripping: No A double row of rubber gasket was located on the pressure bars and on the sill extrusion. The glass set in an angle setting block at the sill. A wedge gasket was located at the retaining ring.

5.0 Test Specimen Description: (Continued)

5.4 Glazing: *No conclusions of any kind regarding the adequacy or inadequacy of the glass in any glazed test specimen(s) can be made.*

Glass Type	Spacer Type	Interior Lite	Exterior Lite	Glazing Method
1" IG	1/2" aluminum	1/8" Tempered laminated with 0.060" PVB interlayer	1/4" tempered	Dry glazed with a retaining ring at the base and pressure bars on the sides. Each lower corner was sealed with sealant. Retaining ring secured with #10 x 3/4" self tapping screws with neoprene washer located 3" from each end and 11" on center thereafter. Pressure bars secured with #10 x 2" self tapping screws with neoprene washer located 4" from each end and 9" on center thereafter. Screw holes were flooded with sealant and screw heads were sealed over with sealant.

Location	Quantity	Daylight Opening		Glazing Bite
		millimeters	inches	
Triangular Fixed lite	4	1715 x 1715 x 2210	67-1/2 x 67-1/2 x 87	1"

5.5 Drainage:

Drainage Method	Size	Quantity	Location
Weeps	1/4"	8	4" from corners on each side

5.6 Hardware: No hardware was utilized.

5.7 Reinforcement: No reinforcement was utilized.

5.8 Screen Construction: No screen was utilized.

6.0 Installation:

The specimen was installed into a Spruce-Pine-Fir wood buck. The rough opening allowed for a 1/4" shim space. The exterior perimeter of the skylight was sealed to the wood buck with sealant at the sill.

Location	Anchor Description	Anchor Location
Curb	#6 x 1-1/2" drywall screw	3" from each corner then 8" full perimeter

7.0 Test Results: The results are tabulated as follows:

7.1 OSHA Safety Test

Test Specimen:

Test	Load Location	Results
200 lb	Center of fixed lite	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

Test Specimen:

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
2000 lb-ft (10' drop height)	Inset 1" from perimeter edge	No visible damage

7.0 Test Results: (Continued)

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 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 tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, Inc.

Chris Longoria
Technician

Andy Cost
Laboratory Manager

CL:hd

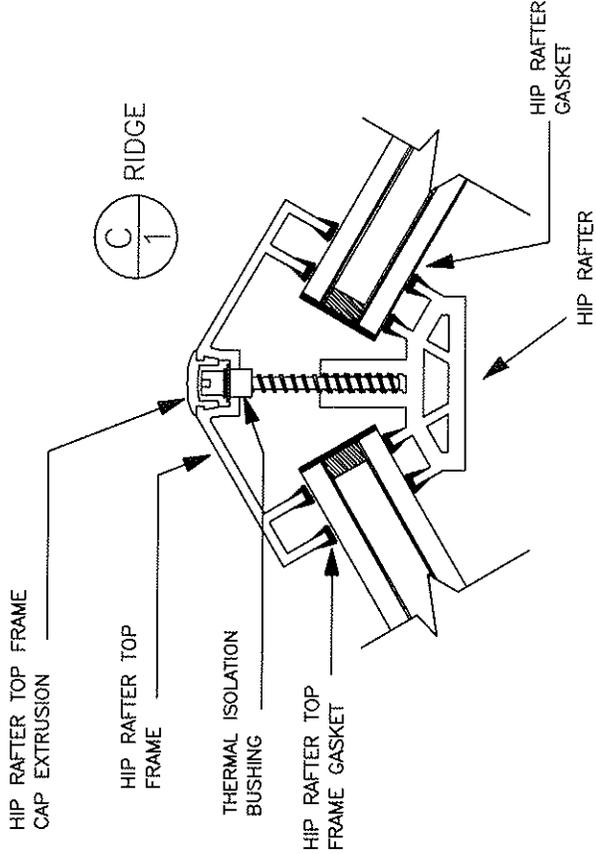
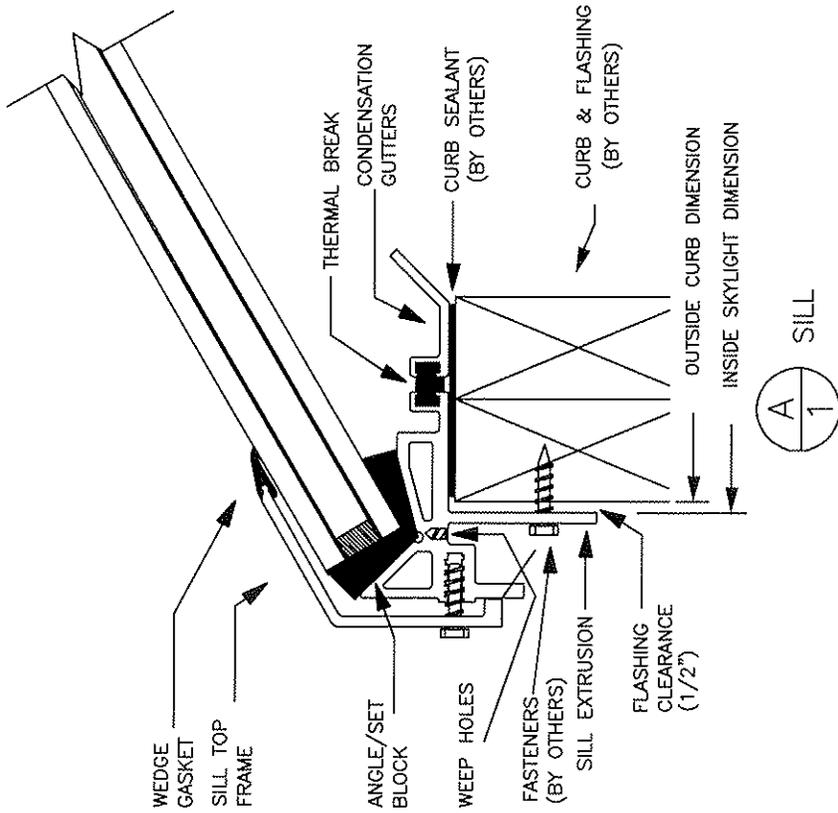
Attachments (pages): This report is complete only when all attachments listed are included.
Appendix-A: Drawings (5)

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

Test Report No.: C5811.02-801-44
Report Date: 05/13/13
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Appendix A

Drawings



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# C5811.01-801-44
Date: 5/14/12 Tech BA



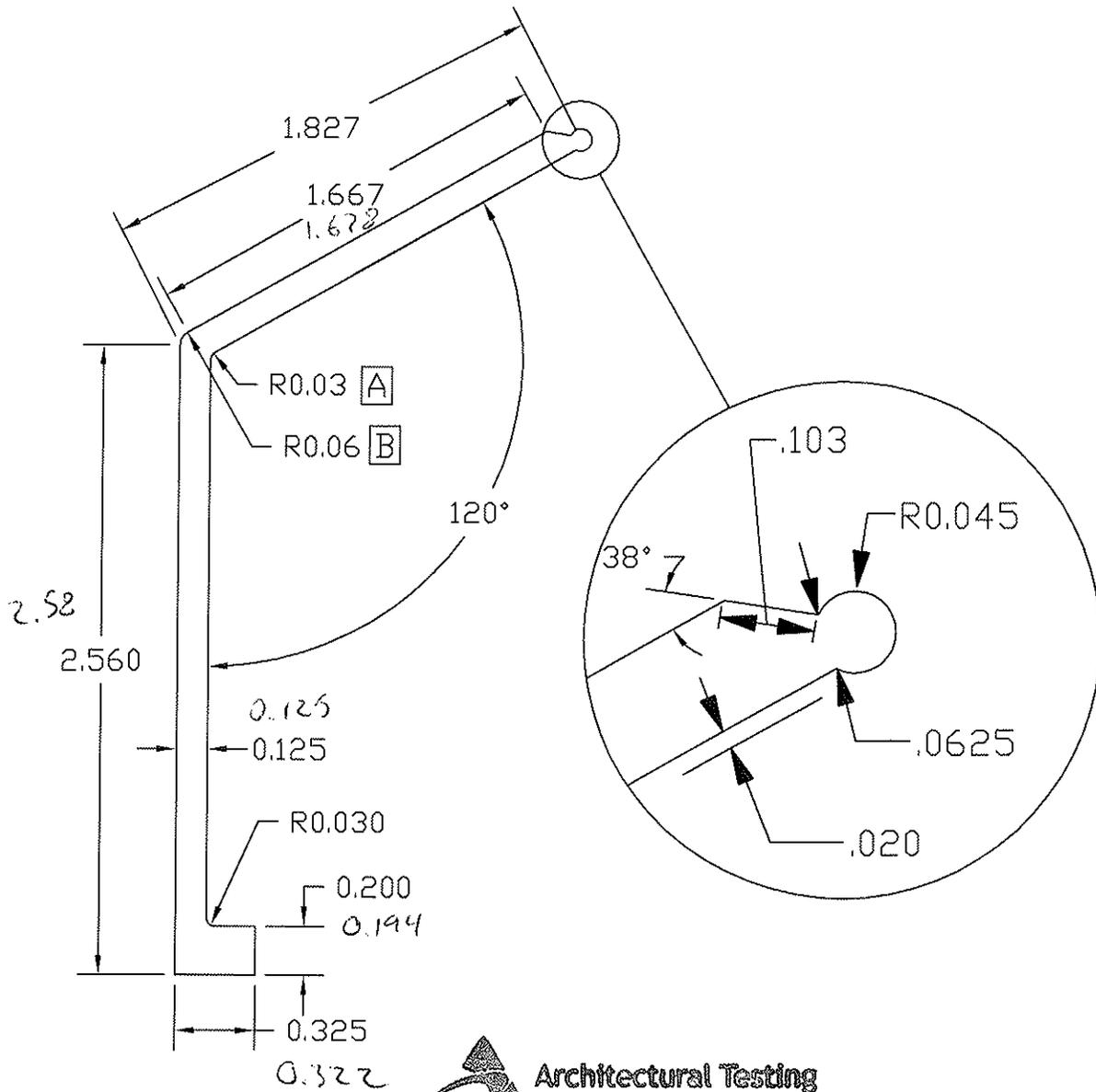
AMERICAN SKYLITES
525 113th STREET ARLINGTON, TEXAS 76011
Phone 800.772.7401 Fax 800.445.7282

AMERICAN PATRIOT
THERMALLY BROKEN CURB MOUNT
INSULATING GLASS PYRAMIDS

Job: Outside Curb Dimension:
Glazing:
Finish:
Color:
Pitch:

SILL TOP FRAME

7:12



Test sample complies with these details.
Deviations are noted.

Report# C5811.01-801-44
Date 5/14/13 Tech @

TOLERANCES UNLESS OTHERWISE NOTED:		
.X	= +/- .010"	ALL DIM ARE IN INCHES. BREAK SHARP EDGES .015" X 45 DEG.
.XX	= +/- .005"	CONCENTRICITY = .005 TIR. MAX
.XXX	= +/- .002"	SURF FINISH = 125 RMS
		ANGLES = +/- .5 DEG
FINISH	DATE	MATERIAL
N/A	10-11-12	6063-T5
SCALE	REV	DRG #
NTS	A	AX507121

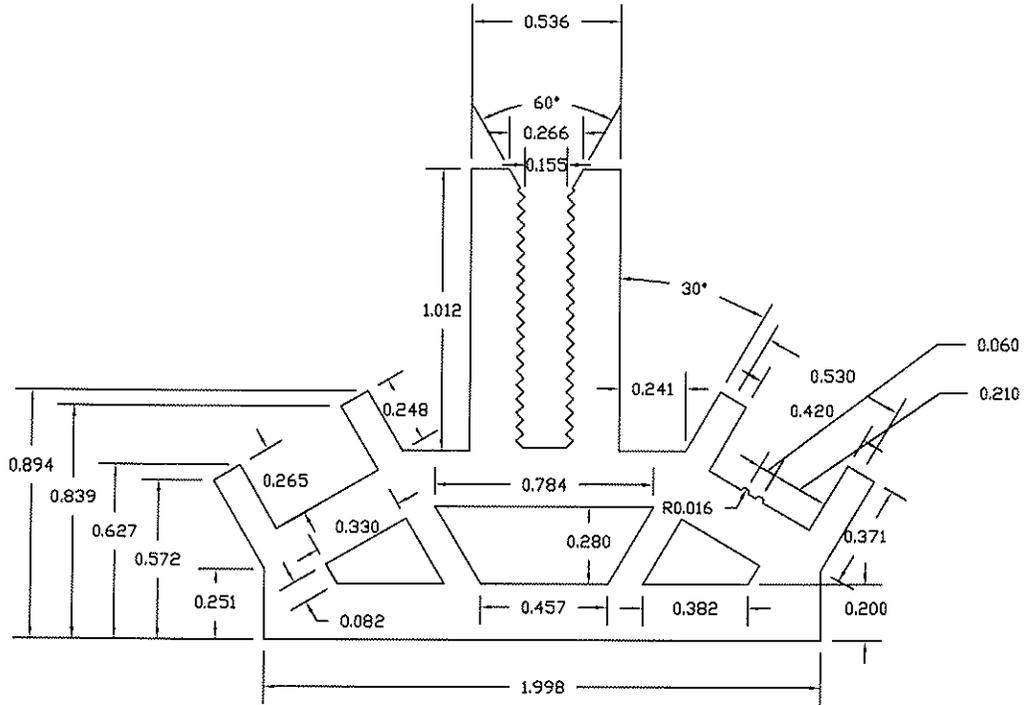
NOTES:
REV A CHANGES = [A] [B]

AMERICAN SKYLITES

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7:12



Architectural Testing

Test sample conforms with these details.
Deviations are noted.

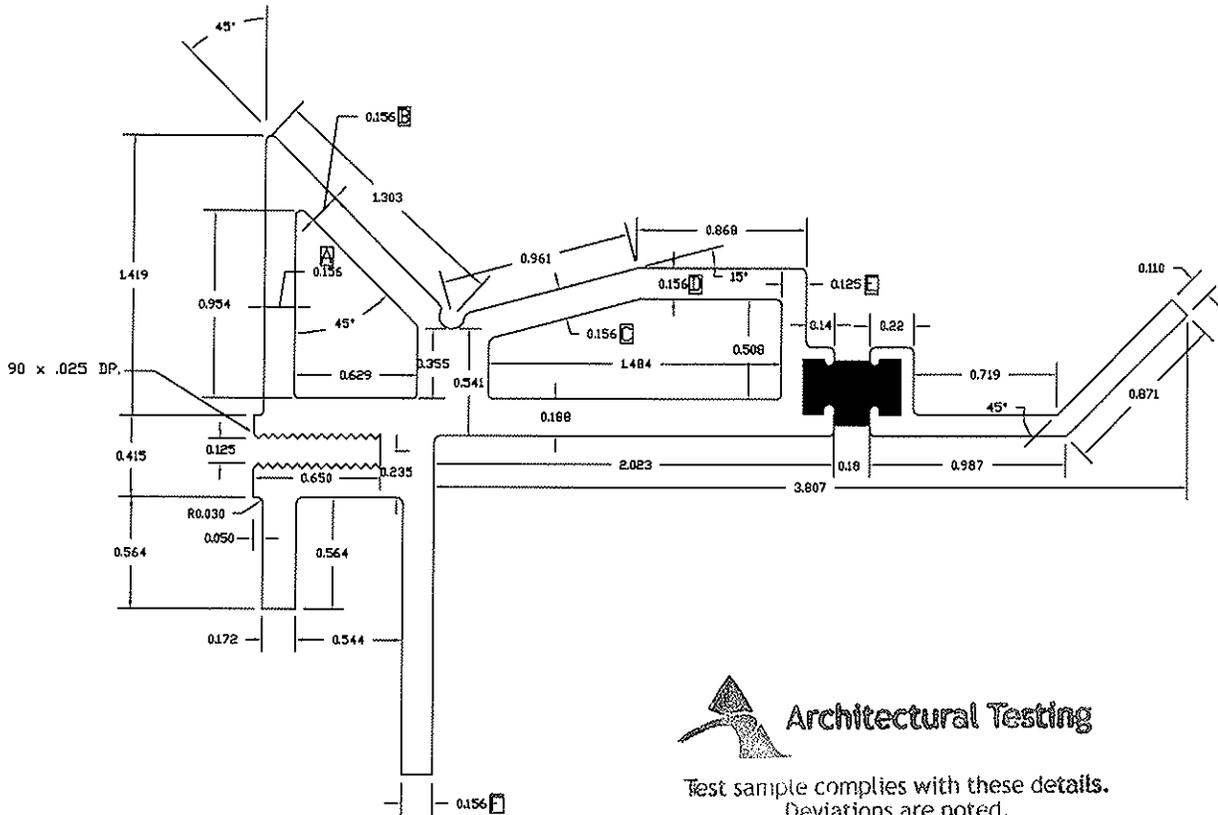
Report# G5811-01-801-44

Date 5/14/13 Tech @

AMERICAN SKYLITES

TOLERANCES UNLESS OTHERWISE NOTED:		DATE	PROPRIETARY INFORMATION
.X = +/- .010" ALL DIM ARE IN INCHES. BREAK SHARP EDGES .015" X 45 DEG. .XX = +/- .005" CONCENTRICITY = .005 TIR. MAX .XXX = +/- .002" SURF FINISH = 125 RMS ANGLES = +/- .5 DEG		10-11-12	
		DRAWN BY	THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND IS THE PROPERTY OF AMERICAN SKYLITES. THIS DOCUMENT SHALL NOT BE COPIED, TRANSMITTED, REPRODUCED IN ANY WAY WITHOUT PRIOR WRITTEN CONSENT FROM AMERICAN SKYLITES. THIS DOCUMENT REMAINS THE PROPERTY OF AMERICAN SKYLITES. MUST BE RETURNED UPON REQUEST. BY ACCEPTING THIS DOCUMENT YOU AGREE TO THE TERMS ABOVE. ALL RIGHTS RESERVED.
FINISH	MATERIAL	DW	
N/A	6063-T5		
SCALE	REV	DWG #	
NTS	A	AX507124	

SILL EXTRUSION



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# C5811-107-801-44
Date 5/14/13 Tech [Signature]

AMERICAN SKYLITES

TOLERANCES UNLESS OTHERWISE NOTED:

.X = +/- .010"
.XX = +/- .005"
.XXX = +/- .002"

ALL DIM ARE IN INCHES. BREAK
SHARP EDGES .015" X 45 DEG.
CONCENTRICITY = .005 TIR. MAX
SURF FINISH = 125 RMS
ANGLES = +/- .5 DEG

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NOTES:

REVISION "A" CHANGES



FINISH	DATE	MATERIAL
N/A	8-12-11	6063-T5
SCALE	REV	DWG #
NTS	A	AX500000