



TEST REPORT

Report No.: E3508.02-301-44

Rendered to:

SKYCO SKYLIGHTS
Costa Mesa, California

SERIES/MODEL: 4896-A-S-CM-SPW-MF
PRODUCT TYPE: Unit Skylight – Plastic Glazed

SPECIFICATION: Occupational Safety and Health Administration/U.S. Department of Labor Regulations Standards – 29 CFR 1926 Subpart M (Fall Protection) 1926.501(b)(4)(i); 1926.501(i)(2); 1926.501(b)(4)(ii)

Test Date: 12/11/14
Report Date: 01/05/15
Revision Date: 01/12/15
Test Record Retention Date: 12/11/18

1.0 Report Issued To: Skyco Skylights
2995 Airway Avenue, Suite B
Costa Mesa, California 92626

2.0 Test Laboratory: Architectural Testing, Inc.
4 Rancho Circle
Lake Forest, California
949-460-9600

3.0 Project Summary:

3.1 Series/Model: 4896-A-S-CM-SPW-MF

3.2 Product Type: Unit Skylight – Plastic Glazed

3.3 Compliance Statement: Results obtained are tested values and were secured by using the designated test methods.

3.4 Test Date: 12/09/14-12/11/14

3.5 Test Record Retention End Date: All test records for this report will be retained until December 11, 2018.

3.6 Test Location: Architectural Testing, Inc. test facility in Lake Forest, California.

3.7 Test Sample Source: The specimens were selected by Architectural Testing, Inc. personnel. The specimens were witnessed during production and tagged prior to shipment on December 5, 2014, (Reference Architectural Testing Test Specimen Selection Report No. E3507.01-301-15, dated December 8, 2014). Representative samples of the test specimens will be retained by Architectural Testing for a minimum of four years from the test completion date.

3.8 Drawing Reference: The test specimen drawings have been reviewed by Architectural Testing and are representative of the test specimens reported herein. Test specimen construction was verified by Architectural Testing per the drawings located in Appendix B. Any deviations are documented herein or on the drawings.

3.9 List of Official Observers:

<u>Name</u>	<u>Company</u>
Bob Sampson	RCS Consulting
Ryan Marshall	Skyco Skylights
Patrick Walsh	Skyco Skylights
Jarod S. Hardman	Architectural Testing, Inc.

4.0 Test Specifications:

Occupational Safety and Health Administration/U.S. Department of Labor Regulations Standards – 29 CFR 1926 Subpart M (Fall Protection) 1926.501(b)(4)(i); 1926.501(i)(2); 1926.501(b)(4)(ii).

A 400 lbf. weight, fabricated from a bag filled with sand, was placed on the center of the dome for a minimum of 60 seconds. The bag was removed and the test unit was inspected for any signs of damage or failure. A 200 lbf. weight, fabricated from a bag filled with sand, was dropped from a 4' height above the dome, any visible damage was noted.

The static test was performed to demonstrate that a 4896-A-S-CM-SPW-MF unit skylight – plastic glazed, installed according to the manufacturer's instructions and in new or undamaged condition can support a 350-Pound weight at any one time based on 1926.502(i)(2).

The 800 lbf-ft impact test was performed to demonstrate the adequacy of the 400 lb. static test results.

5.0 Test Specimen Description:

5.1 Product Sizes:

Overall Area: 3.38 m ² (36.37 ft ²)	Width		Length	
	Millimeters	Inches	Millimeters	Inches
Overall size	2546	100-1/4	1327	52-1/4
Outside curb dimension	2521	99-1/4	1302	51-1/4

	Dimension	
	Millimeters	Inches
Dome Thickness (Min.)	3	0.12
Dome Height	333	13-1/8
Dome Width	2489	98
Dome Length	1270	50
	Mass	
	Kilograms	Pounds
Dome Weight	10.8	24.0

5.0 Test Specimen Description: (Continued)

5.2 Frame Construction:

Frame Member	Material	Drawing #
Curb frame	6063 T-5 Aluminum	See attached Drawing #ALCM048 and Drawing #ALCM096.
Snap-in perimeter cap	6063 T-5 Aluminum	See attached Drawing #SICP048 and Drawing #SICP096.

	Joinery Type	Detail
Frame corners	Mitered	Corners welded and silicone sealant applied to corner joint inside of condensation track.
Snap-in perimeter cap	Mitered	Cap bead of silicone sealant applied to exterior of miter.

5.3 Weatherstripping:

Description	Quantity	Location
EPDM Gasket	1 row	Press fit into channel of frame (Drawing #ALCM048/ALCM096), see attached Drawing #GSKT048/GSKT096.

5.4 Glazing:

Glass Type	Glazing	Glazing Method
Monolithic	0.118" CC1 Polycarbonate	Secured by snap in perimeter cap with 1/2" bead of silicone sealant on top and underside of dome perimeter when secured.

Location	Quantity	Daylight Opening Diameter		Glass Bite
		millimeters	Inches	
Dome	1	2438 x 1219	96 x 48	1"

6.0 Installation: The specimens were witnessed during installation by Architectural Testing, Inc. personnel and checked for compliance with manufacturer installation instructions.

The specimen was installed onto a nominal 2x8 Spruce-Pine-Fir curb. The rough opening allowed for a 1/2" shim space. A bead of silicone sealant was applied to the top side of the curb and the skylight was compressed against the curb.

Location	Anchor Description	Anchor Location
Full perimeter of skylight	#10 x 1-3/4" slotted hex head screw with neoprene bonded steel washer	3" from each corner and 12" on center spacing for long spans and 3" from each corner and 15-1/2" on center spacing for short spans.

7.0 Test Results: The results are tabulated as follows:

7.1 OSHA Safety Test

Test	Load Location	Results
400 lbf.	Center of dome	No visible damage to dome or inversion of dome occurred.

Note: The 400 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 Method	Load Location	Results
800 lbf-ft (4' drop height)	Center of dome	Dome ridge indented at point of impact, no visible damage or cracking of dome and no compromising of dome perimeter retention.

Note: The dome ridge returned to its original shape approximately 30 minutes after impact test occurred, a small crease in the dome remained at the point of impact inversion.



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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 glass in any glazed test specimens 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.

Jarod S. Hardman
Laboratory Manager

Tyler Westerling, P.E.
Senior Project Engineer

JSH: ss

Attachments (pages): This report is complete only when all attachments listed are included.

Appendix-A: Photographs (2)

Appendix-B: Drawings (14)

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>
0	1/05/15	N/A	Original report issue.
1	1/12/15	2, 4	Revised impact force to reflect 800 lbf-ft. impact load.

Appendix A
Photographs

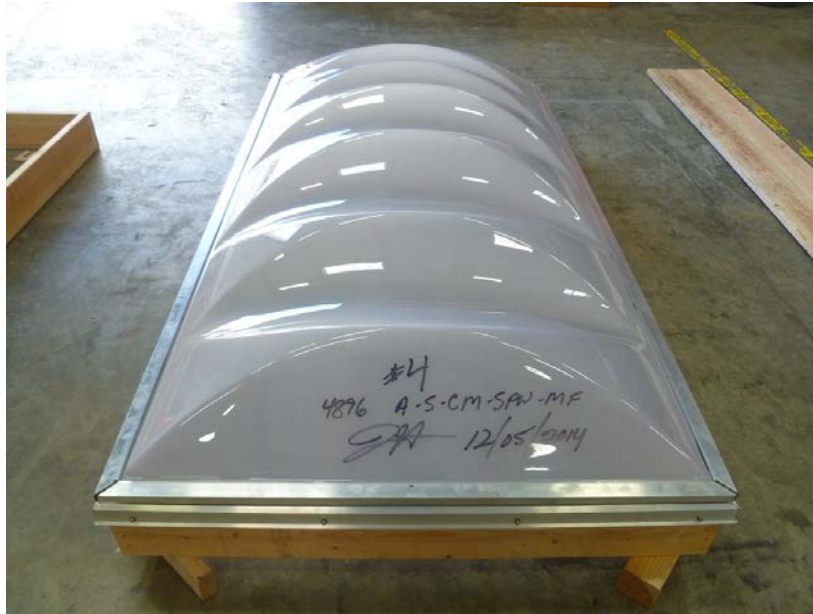


Photo No. 1
OSHA Safety Test After Load Applied



Photo No. 2
OSHA Safety Drop Test After Load Applied – Inversion of Dome Ridge



Photo No. 3

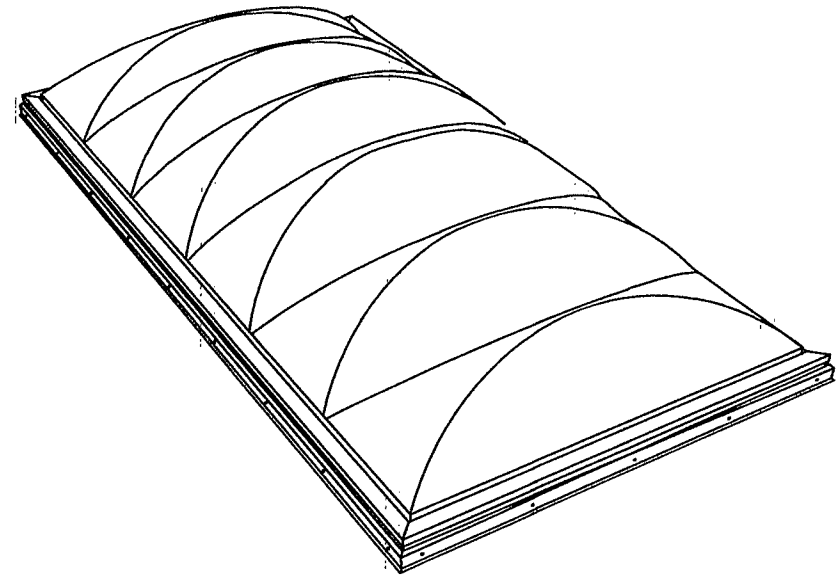
OSHA Safety Drop Test After Load Applied – Crease in Dome after Return of Dome Ridge

Appendix B

Drawings









INDEX

PAGE	ILLUSTRATION	DESCRIPTION
01		INDEX / PARTS LIST
02	ASSY001	CURB FRAME ASSEMBLY
03	ASSY002	CURB FRAME & EPDM GASKET ASSEMBLY
04	ASSY003	4896 A-S-CM EXPLODED DIAGRAMS
05	ASSY004	4896 A-S-CM
06	ALCM048	CM-R FRAME 048
07	ALCM096	CM-R FRAME 096
08	SICP048	SNAP-IN PERIMETER CAP, 048
09	SICP096	SNAP-IN PERIMETER CAP, 096
10	GSKT048	EPDM GASKET 048
11	GSKT096	EPDM GASKET 096
12	DOME400	5098 SKYPRO SKYWAVE DOME
13	E-8380	CM-R FRAME DIE DRAWING
14	E-8381	SNAP-IN PERIMETER CAP DIE DRAWING



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PARTS LIST

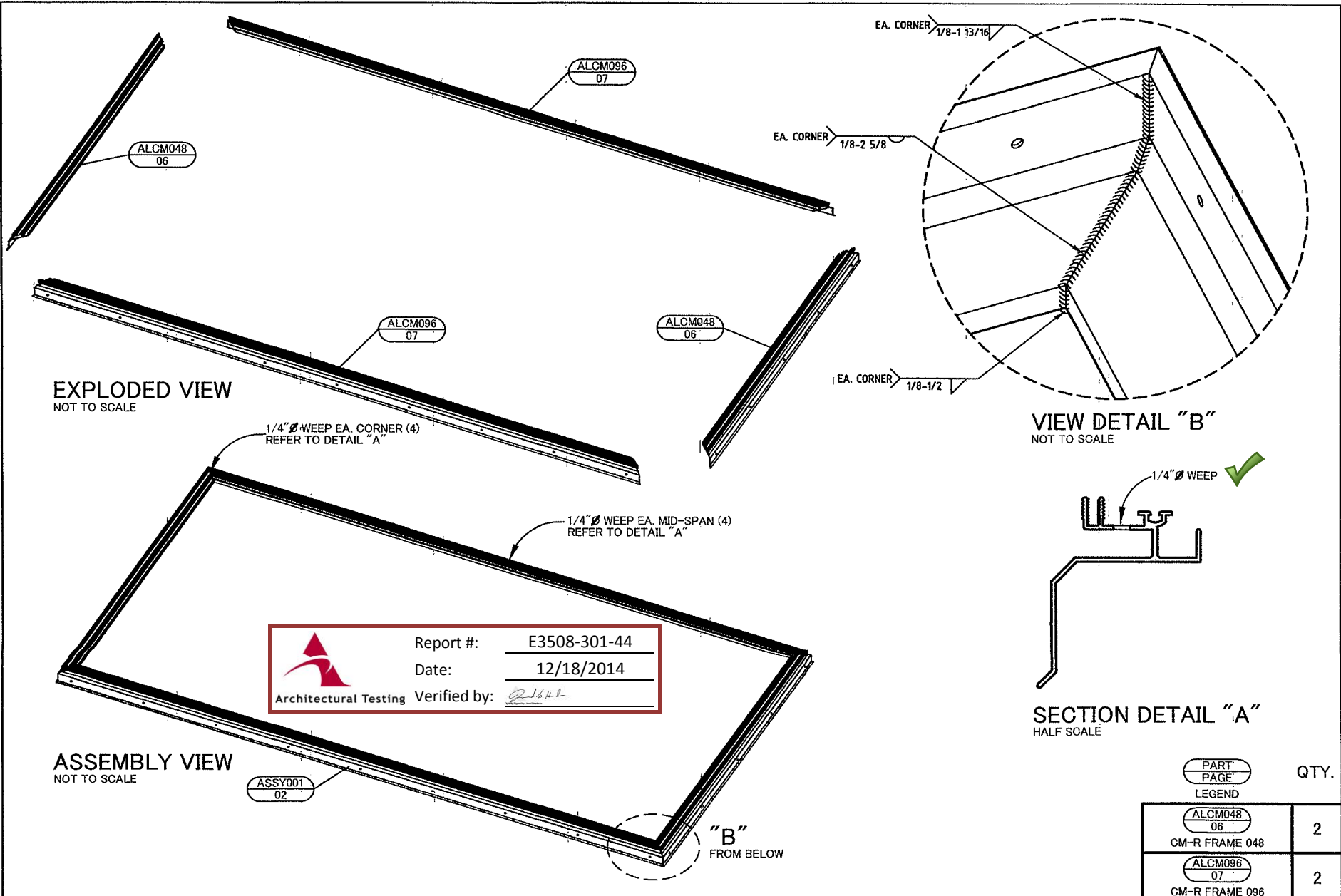
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2.	07		CM-R FRAME 096	6063-T5 ALUMINUM	MILL	2
3.	08		SNAP-IN PERIMETER CAP 048	6063-T5 ALUMINUM	MILL	2
4.	09		SNAP-IN PERIMETER CAP 096	6063-T5 ALUMINUM	MILL	2
5.	10		EPDM GASKET 048	ETHYLENE PROPYLENE DIENE MONOMER RUBBER	BLACK	2
6.	11		EPDM GASKET 096	ETHYLENE PROPYLENE DIENE MONOMER RUBBER	BLACK	2
7.	12		5098 SKYPRO SKYWAVE DOME	0.118" CC1 POLYCARBONATE	HIGH WHITE	1
8.	04/05		SCHNEE-MOREHEAD POLY-GLAZE PLUS SEALANT	SILICONE	CLEAR	AS REQ'D.



2995 AIRWAY AVENUE, SUITE B
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A-S-CM AIR, WATER & STRUCTURAL TEST

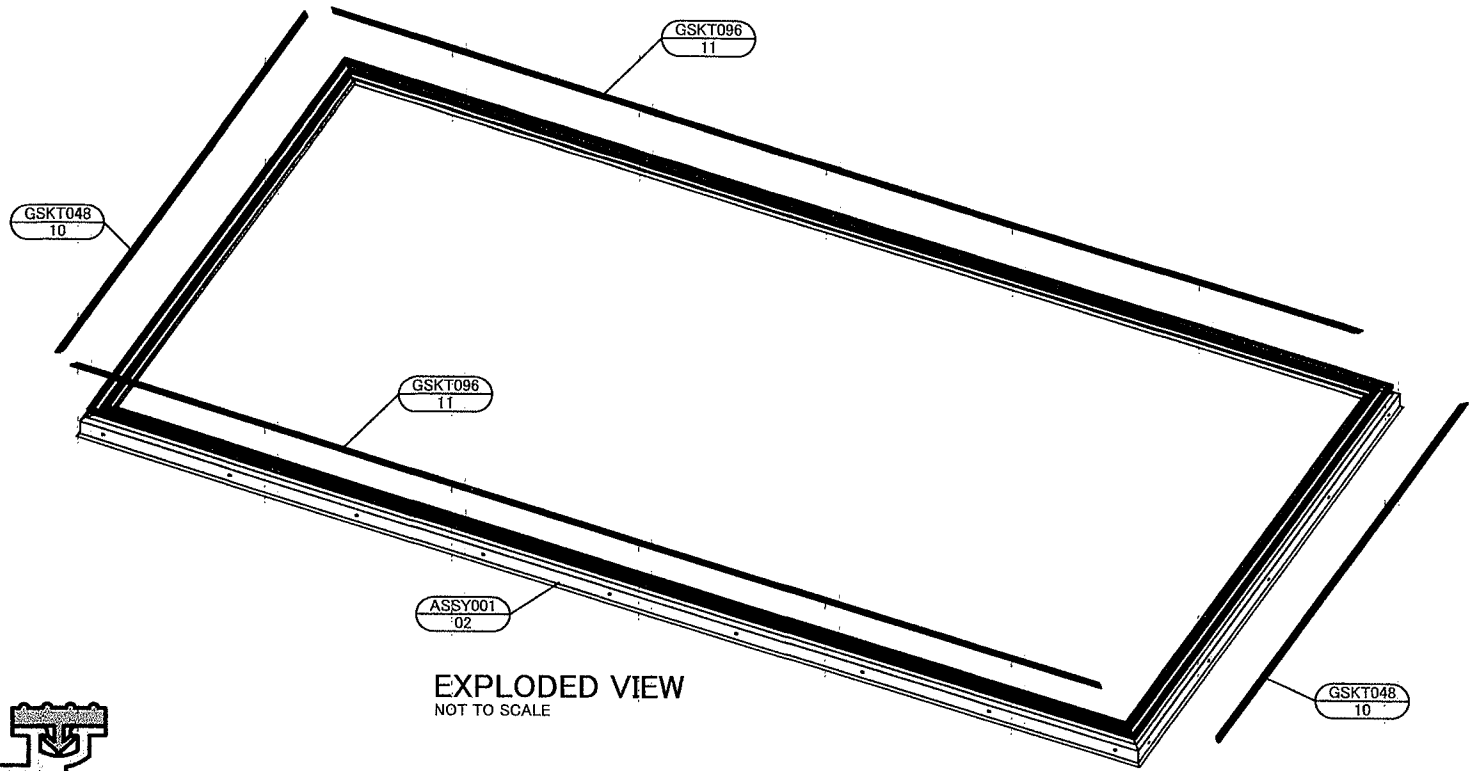
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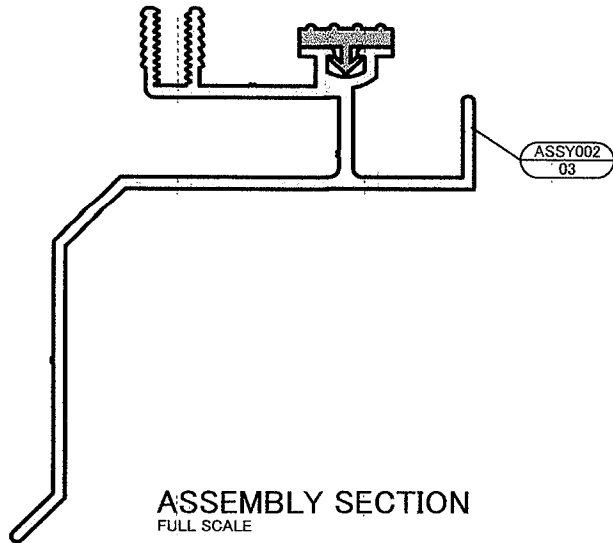

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CM-R FRAME 048		
ALCM096 07		2
CM-R FRAME 096		

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2995 AIRWAY AVENUE, SUITE B COSTA MESA, CALIFORNIA 92626 Phone (949) 629-4090 Fax (949) 629-4088	THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPRIETARY TO SKYCO SKYLIGHTS. NO PART MAY BE DISTRIBUTED OR DISCLOSED IN ANY FORM TO A THIRD PARTY WITHOUT WRITTEN PERMISSION OF SKYCO SKYLIGHTS.	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMAL ANGLES ± 0.2° X.XXX: 0.010	DATE: 12/04/14	SHEET: 02 OF 14




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ASSEMBLY SECTION
FULL SCALE

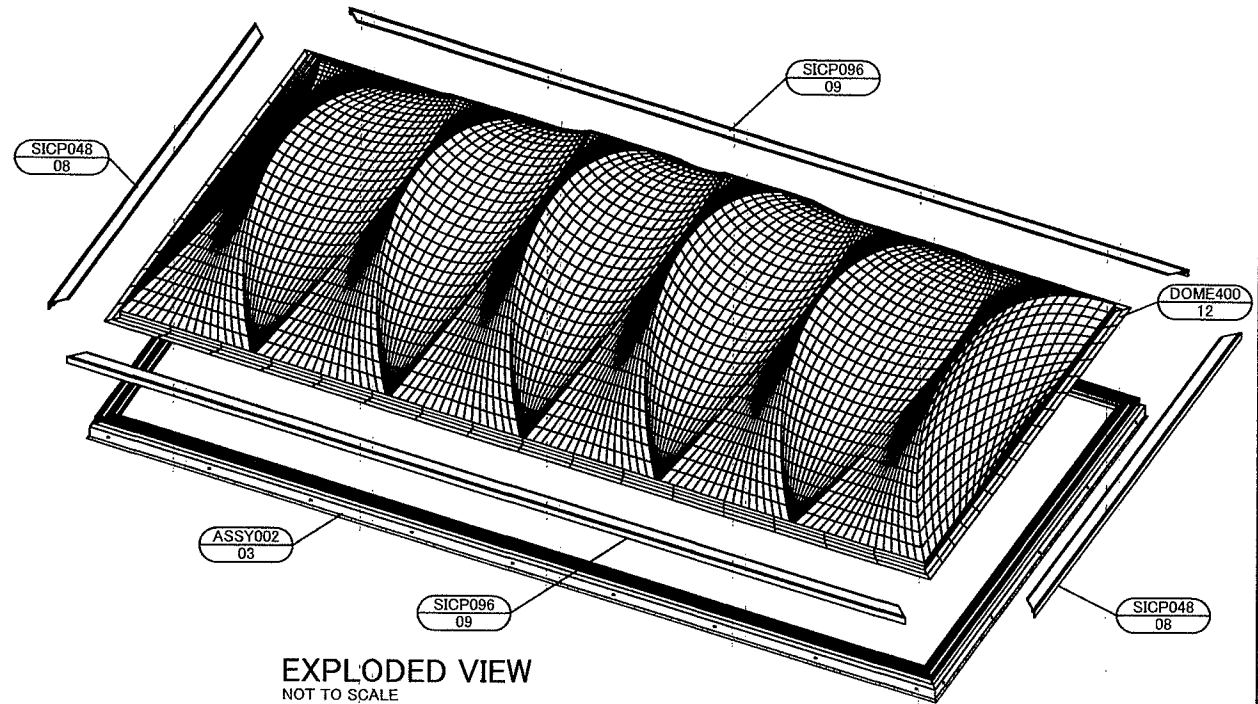
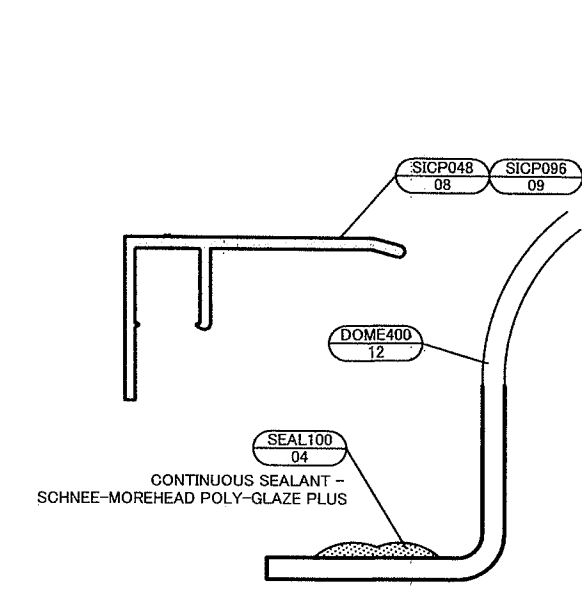

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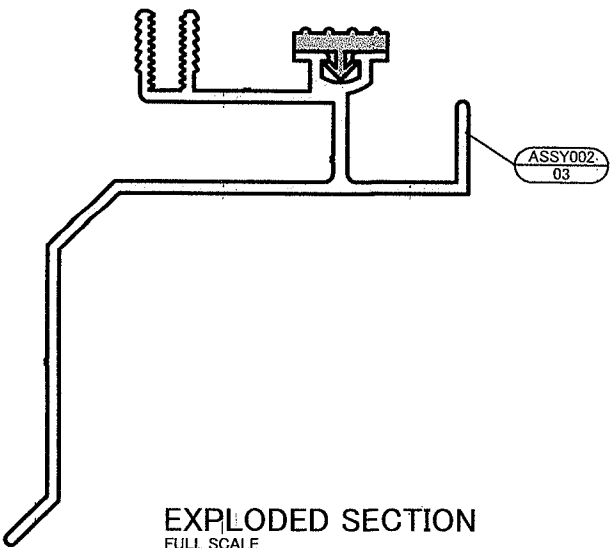
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NOTES: (UNLESS OTHERWISE SPECIFIED)

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FULL SCALE


 Report #: E3508-301-44
 Date: 12/18/2014
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SNAP-IN CAP 048	
SICP096 09	2
SNAP-IN CAP 096	
DOME400 12	1
5098 SKYPRO DOME	
SEAL100 04	AS REQ'D
SEALANT	



DESCRIPTION: 4896 A-S-CM EXPLODED DIAGRAMS

MATERIAL: VARIES

FINISH: VARIES

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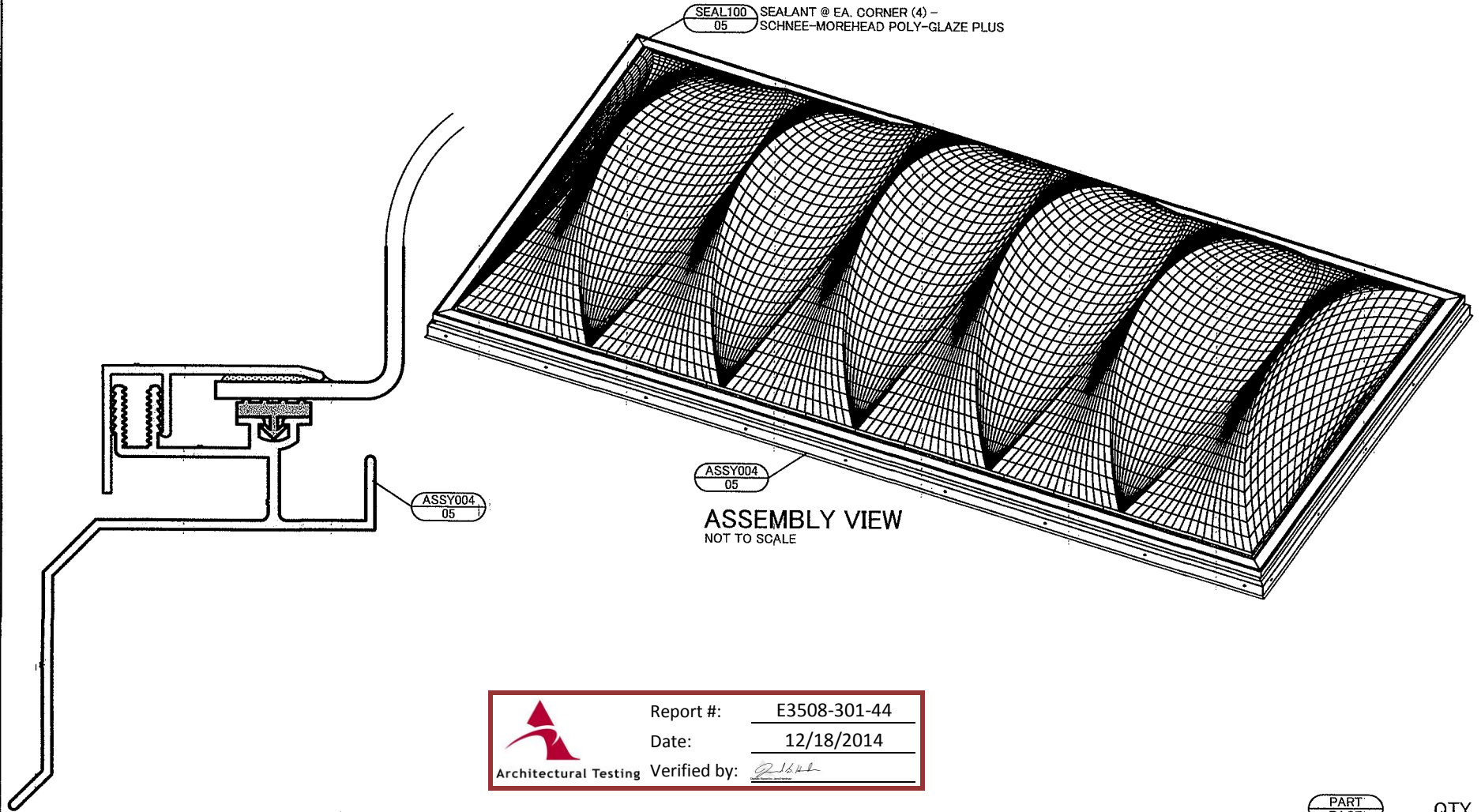
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	Date: 12/18/2014
	Verified by: <i>[Signature]</i>

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FULL SCALE

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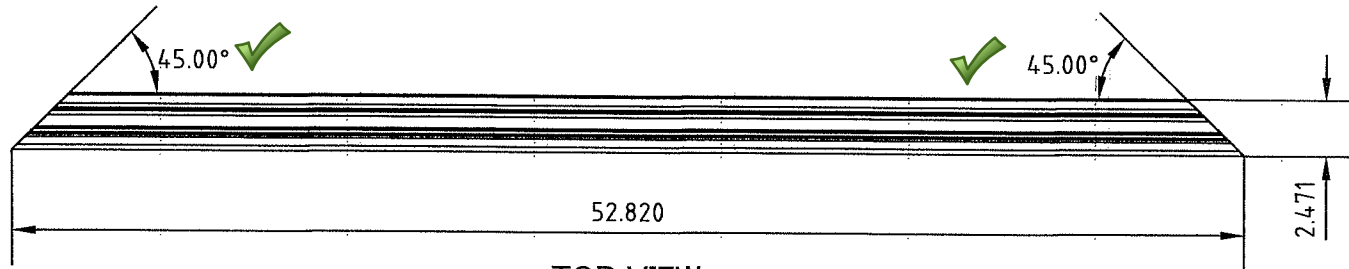
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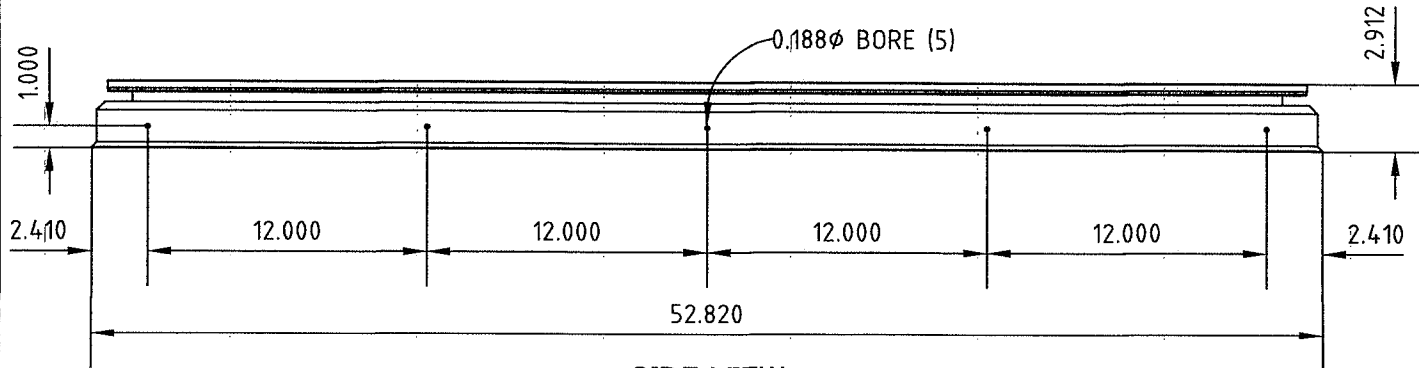
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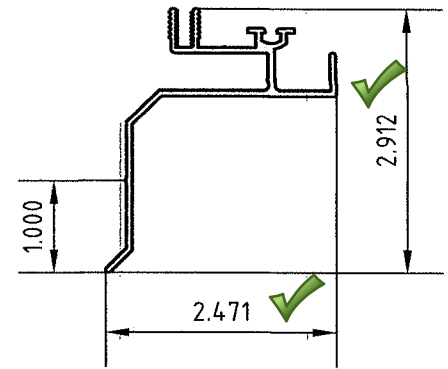
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 1.) ALUM. MANUFACTURERS STANDARDS APPLY




TOP VIEW
 SCALE : 1 1/2" = 1'-0"



SIDE VIEW
 SCALE : 1 1/2" = 1'-0"



END VIEW
 HALF SCALE

 Architectural Testing	Report #: E3508-301-44
	Date: 12/18/2014
	Verified by: <i>[Signature]</i>



DESCRIPTION : CM-R FRAME 048

MATERIAL : 6063-T5 ALUMINUM

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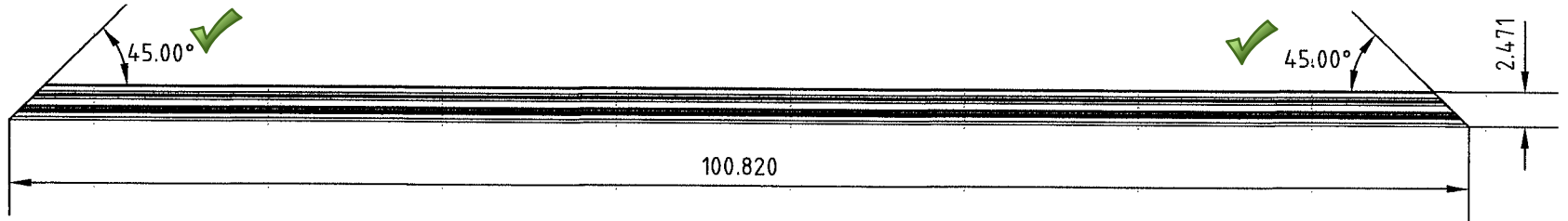
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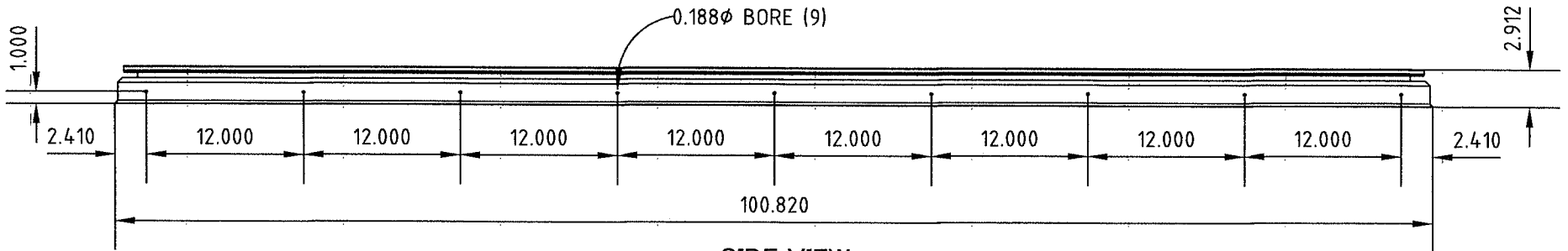
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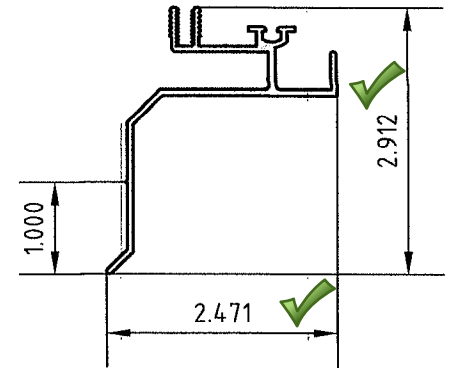
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TOP VIEW
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SIDE VIEW
 SCALE: 1" = 1'-0"



END VIEW
 HALF SCALE

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	Date: 12/18/2014
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DESCRIPTION: CM-R FRAME 096

MATERIAL: 6063-T5 ALUMINUM

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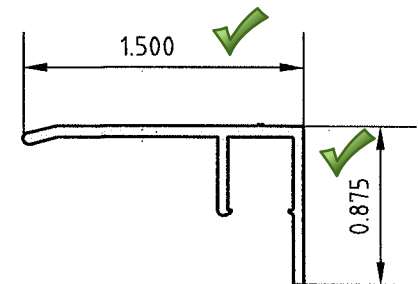
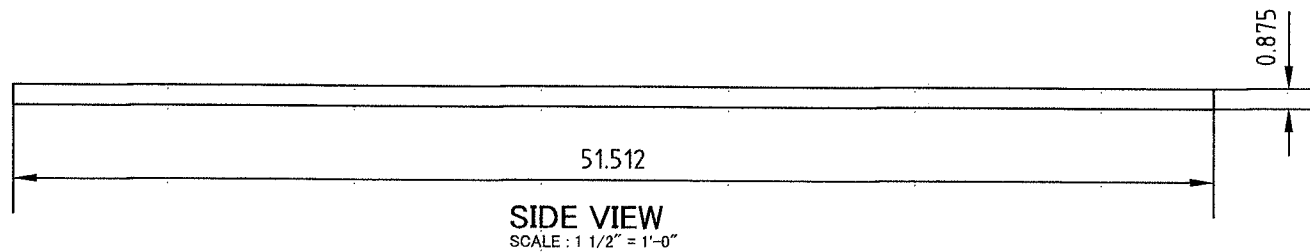
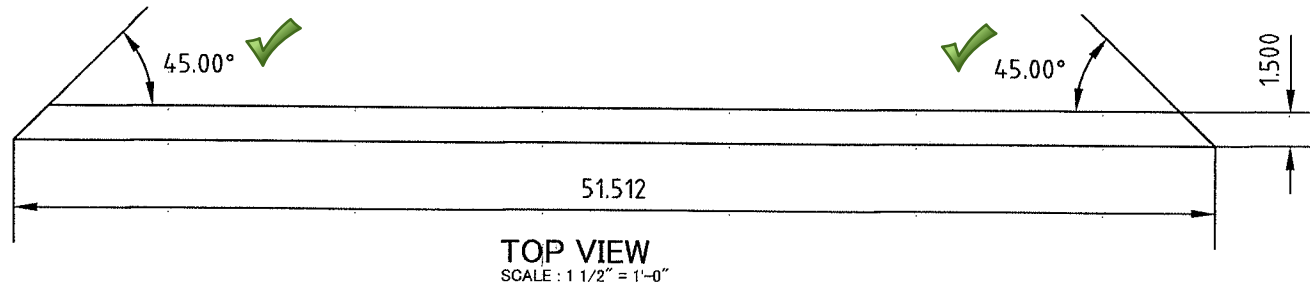
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 ANGLES: ± 0.2°

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DATE: 12/04/14
 SHEET: 07 OF 14

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 Architectural Testing	Report #: E3508-301-44
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DESCRIPTION: SNAP-IN PERIMETER CAP 048

MATERIAL: 6063-T5 ALUMINUM

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FINISH: MILL

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
 DECIMAL ANGLES
 X.XXX: 0.010 ± 0.2°

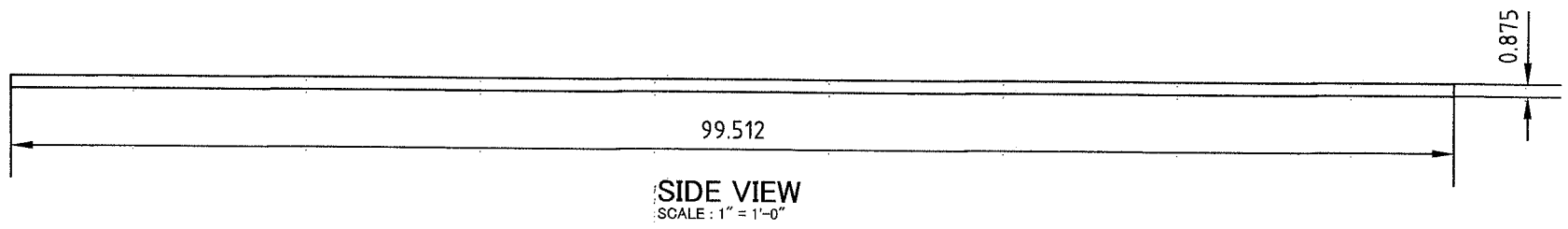
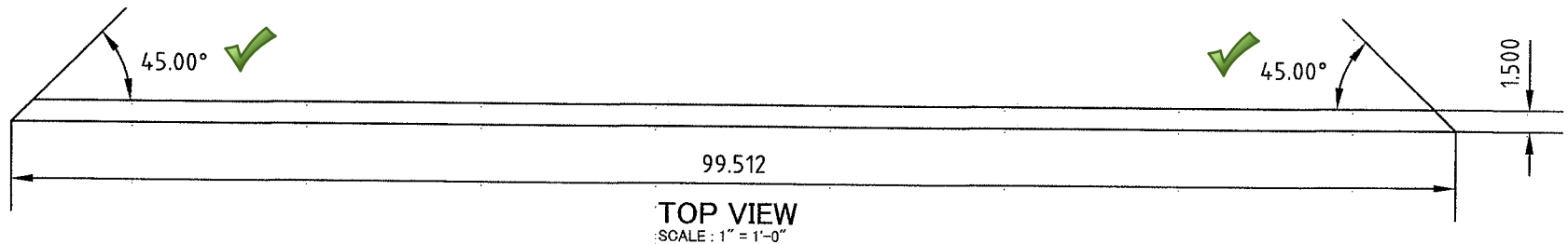
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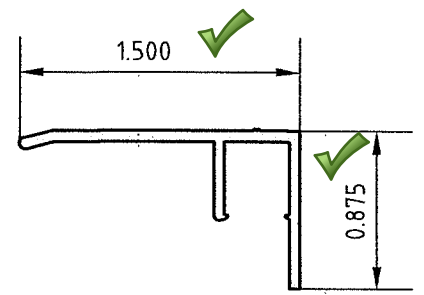
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SHEET: 08 OF 14


NOTES: (UNLESS OTHERWISE SPECIFIED)
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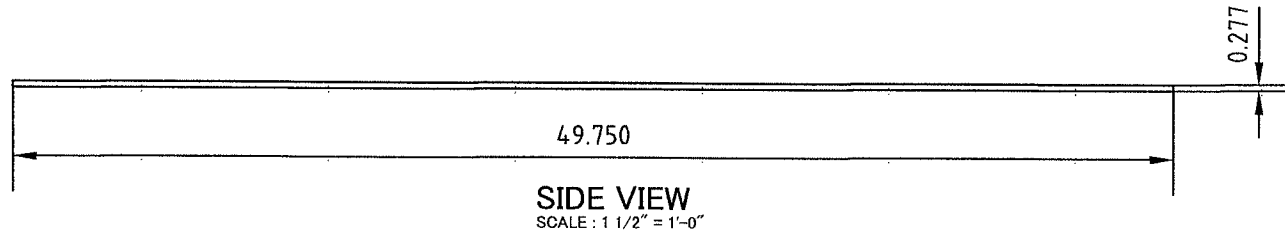
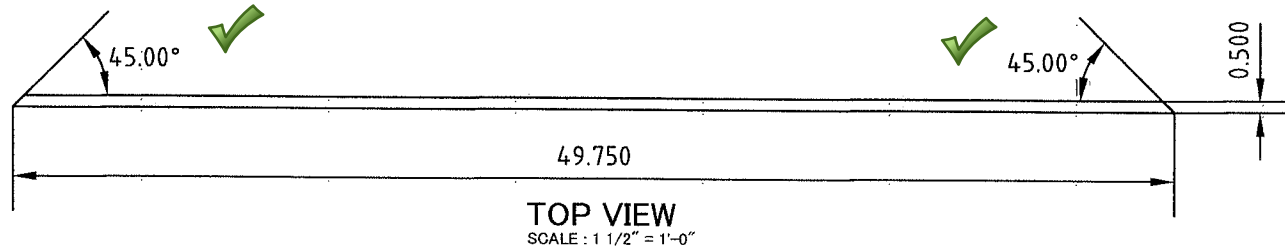


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	Date:	12/18/2014
	Verified by:	<i>[Signature]</i>



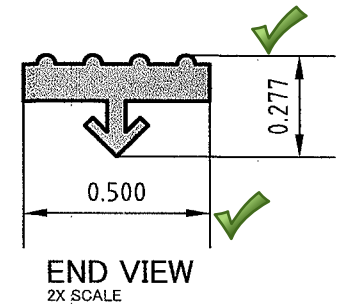
END VIEW
FULL SCALE

	DESCRIPTION: SNAP-IN PERIMETER CAP 096		DRAWING NUMBER: SICP096	
	MATERIAL: 6063-T5 ALUMINUM		FINISH: MILL	
	2995 AIRWAY AVENUE, SUITE B COSTA MESA, CALIFORNIA 92626 Phone (949) 629-4090 Fax (949) 629-4088	THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPRIETARY TO SKYCO SKYLIGHTS. NO PART MAY BE DISTRIBUTED OR DISCLOSED IN ANY FORM TO A THIRD PARTY WITHOUT WRITTEN PERMISSION OF SKYCO SKYLIGHTS.	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMAL X.XXX: 0.010	ANGLES ± 0.2°

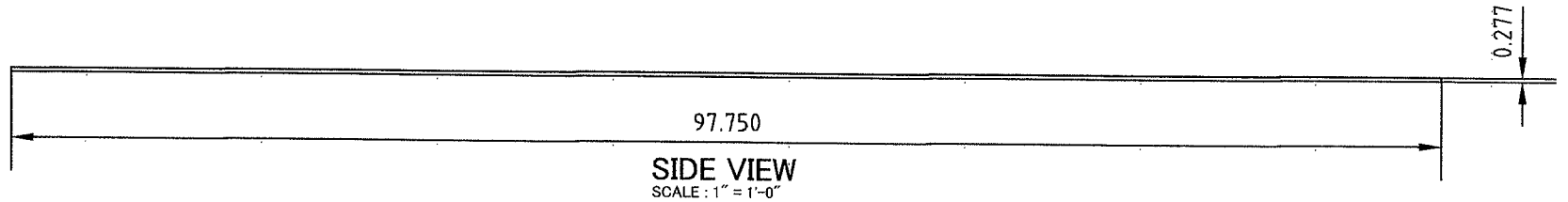
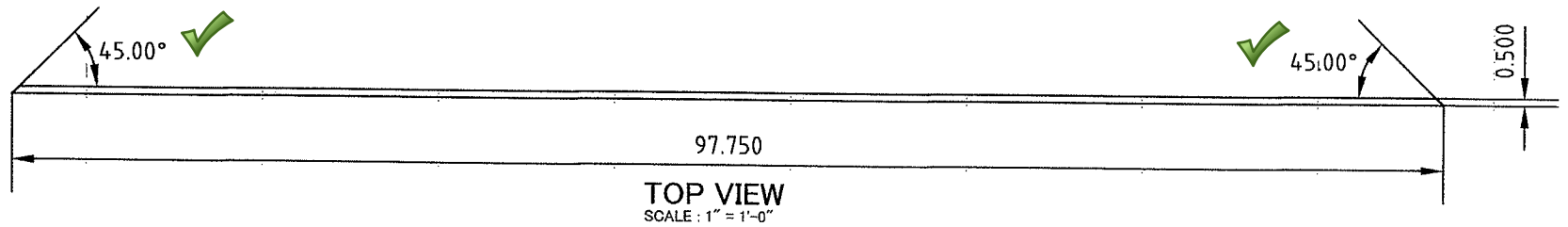



 Architectural Testing	Report #:	E3508-301-44
	Date:	12/18/2014
	Verified by:	<i>[Signature]</i>


 ACTUAL SIZE

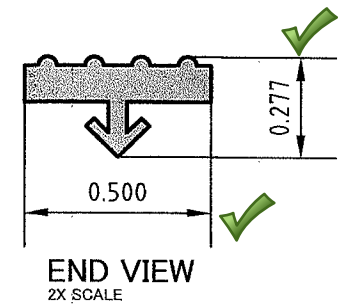


DESCRIPTION : EPDM GASKET 048		DRAWING NUMBER: GSKT048	
MATERIAL : ETHYLENE PROPYLENE DIENE MONOMER RUBBER		FINISH: BLACK	
2995 AIRWAY AVENUE, SUITE B COSTA MESA, CALIFORNIA 92626 Phone (949) 629-4090 Fax (949) 629-4088	THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPRIETARY TO SKYCO SKYLIGHTS. NO PART MAY BE DISTRIBUTED OR DISCLOSED IN ANY FORM TO A THIRD PARTY WITHOUT WRITTEN PERMISSION OF SKYCO SKYLIGHTS.	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMAL X.XXX: 0.010 ANGLES ± 0.2°	DATE : 12/04/14 SHEET: 10 OF: 14



 Architectural Testing	Report #:	E3508-301-44
	Date:	12/18/2014
	Verified by:	<i>[Signature]</i>


ACTUAL SIZE

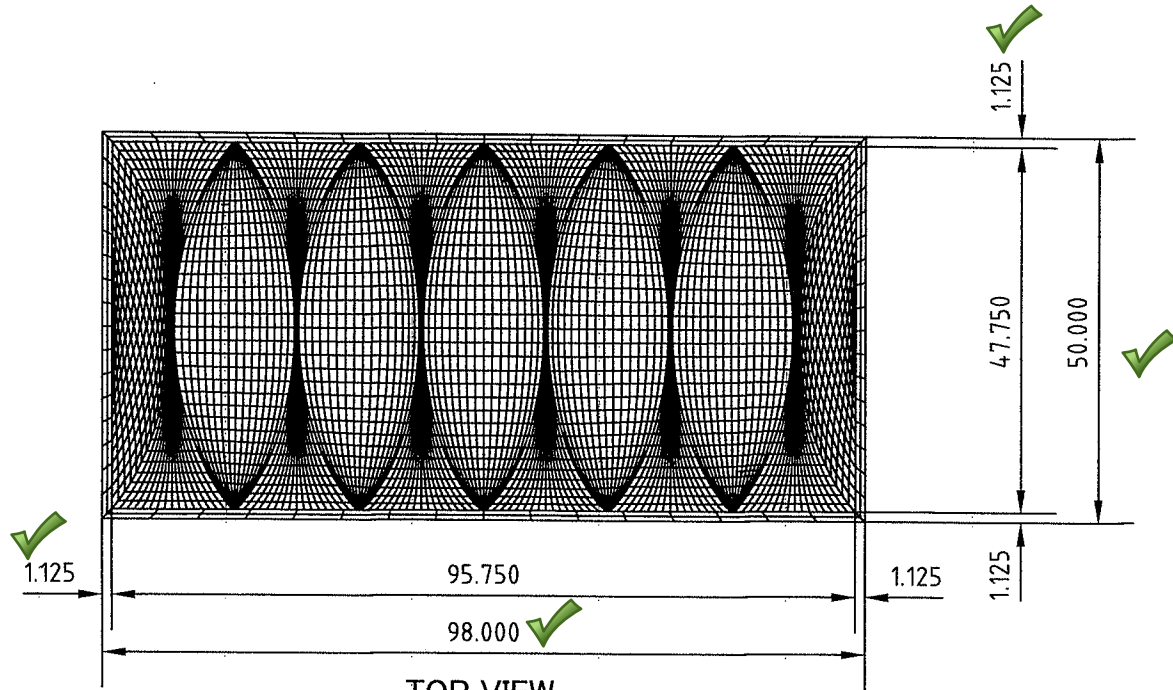


SKYCO
SKYLIGHTS

DESCRIPTION: EPDM GASKET 096		DRAWING NUMBER: GSKT096	
MATERIAL: ETHYLENE PROPYLENE DIENE MONOMER RUBBER		FINISH: BLACK	
2995 AIRWAY AVENUE, SUITE B COSTA MESA, CALIFORNIA 92626 Phone (949) 629-4090 Fax (949) 629-4088	THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPRIETARY TO SKYCO SKYLIGHTS. NO PART MAY BE DISTRIBUTED OR DISCLOSED IN ANY FORM TO A THIRD PARTY WITHOUT WRITTEN PERMISSION OF SKYCO SKYLIGHTS.	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMAL X.XXX: 0.010 ANGLES ± 0.2°	DATE: 12/04/14 SHEET: 11 OF 14

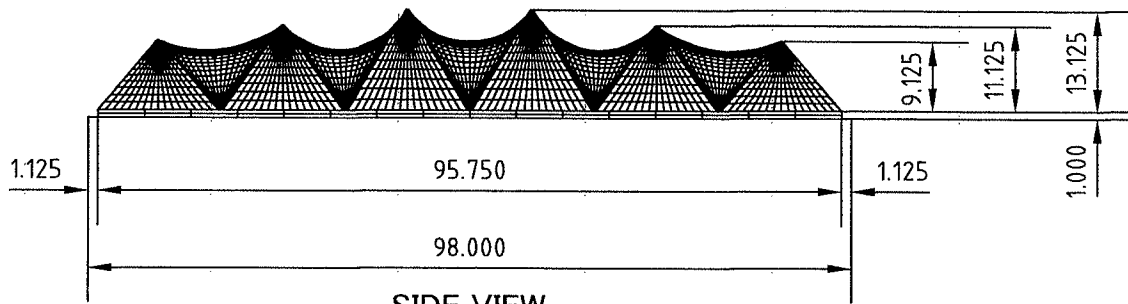
NOTES: (UNLESS OTHERWISE SPECIFIED)

1.) DOME MESH DENOTES CONTOUR ONLY

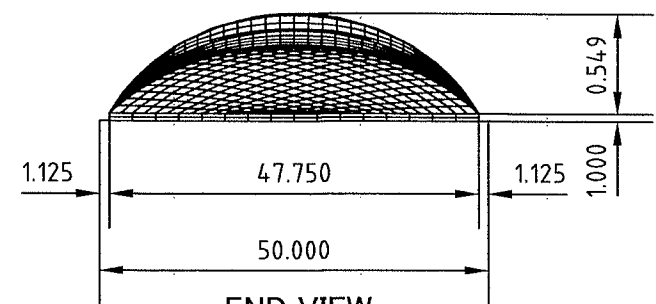


TOP VIEW
SCALE: 1/2" = 1'-0"

 Architectural Testing	Report #:	E3508-301-44
	Date:	12/18/2014
	Verified by:	<i>[Signature]</i>



SIDE VIEW
SCALE: 1/2" = 1'-0"



END VIEW
SCALE: 1/2" = 1'-0"



DESCRIPTION: 5098 SKYPRO SKYWAVE DOME

MATERIAL: 0.118" CC1 POLYCARBONATE

2995 AIRWAY AVENUE, SUITE B
COSTA MESA, CALIFORNIA 92626
Phone (949) 629-4090 | Fax (949) 629-4088

THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPRIETARY TO SKYCO SKYLIGHTS. NO PART MAY BE DISTRIBUTED OR DISCLOSED IN ANY FORM TO A THIRD PARTY WITHOUT WRITTEN PERMISSION OF SKYCO SKYLIGHTS.

FINISH: HIGH WHITE

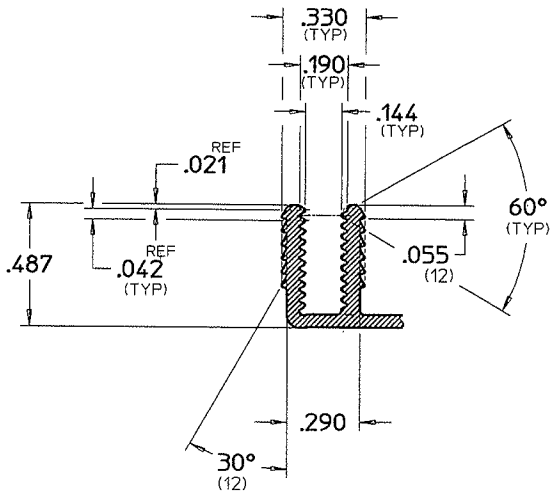
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
DECIMAL: ± 0.010
ANGLES: ± 0.2°

DRAWING NUMBER:

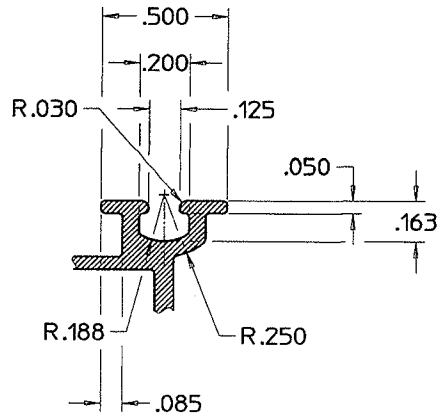
DOME400

DATE: 12/04/14

SHEET: 12 OF 14



DETAIL "A" 2 X SIZE



DETAIL "B" 2 X SIZE

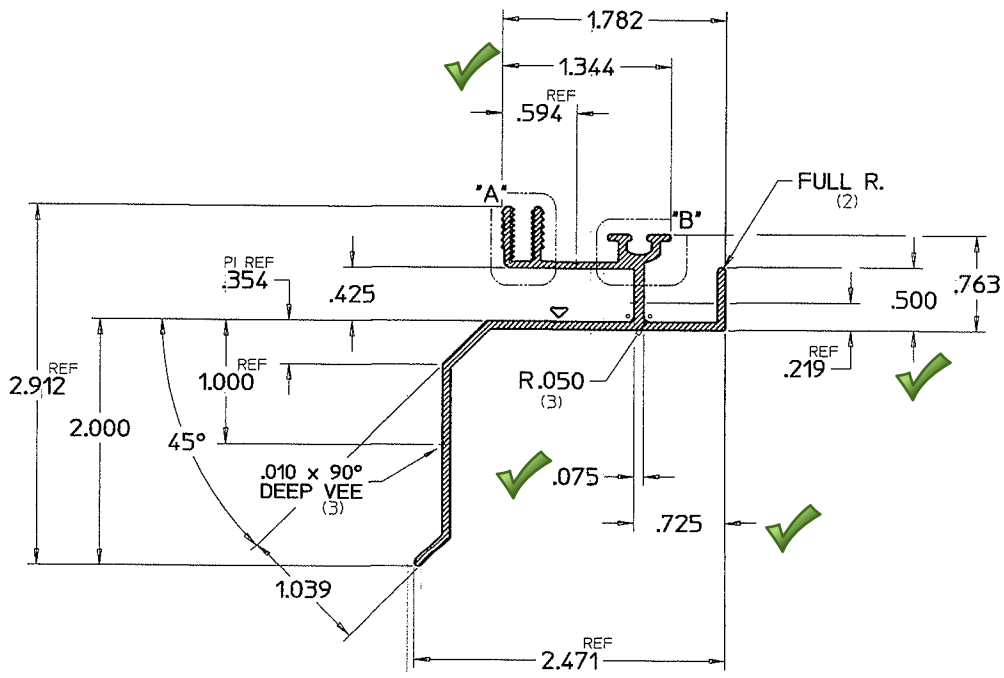
DRAWING APPROVAL
 PLEASE SIGNIFY BELOW THAT THE SHAPE AND DIMENSIONS CONFORM TO YOUR REQUIREMENTS AND THAT YOU AGREE TO ACCEPT ALL LEGAL RESPONSIBILITY FOR PATENT, TRADE MARK, COPYRIGHT, INDUSTRIAL DESIGN OR ANY OTHER INFRINGEMENT RELATING TO THIS SHAPE AND TO IDENTIFY AND SAVE HARMLESS SAPA EXTRUSION, INC. AND ITS AFFILIATES, FROM ANY CLAIMS, SUITS, ACTIONS OR DEMANDS ARISING THEREFROM.

CUSTOMER: _____
 SIGNED BY: _____
 DATE: _____

PLEASE MARK ANY EXPOSED SURFACES, ANY CRITICAL/CHECK DIMENSIONS AND THE LOCATION OF SAPA ID MARK. PLEASE INDICATE WHETHER ID MARK IS TO BE RAISED OR RECESSED.

SIGNED BY: _____
 DATE: _____

DIE NUMBER E-8380	DRAWING NUMBER E-8380	sapa:		SKYCO SKYLIGHTS		DIE NUMBER E-8380
		18111 E. Railroad Street City of Industry, CA 91748		CUSTOMER NAME		DRAWING NUMBER
* DENOTES CRITICAL DIMENSION OR TOLERANCE		ALUMINUM ASSOCIATION STANDARD TOLERANCES APPLY U.S.		PART NAME CM-R FRAME		LB/FT .578
		TYP WALL U.O.S.: .063 ±.010 TYP RAD U.O.S.: .016		PART NO		AREA .482
				DATE 7-17-2014		PERI 15.793
						ADJ PERI ----
						CC/FAC 3.5 2'
						TYPE SOLID
						TIE.VOL ----
						DRN BY DSK
						ALLOY 6063-T5
						SOLD BY
						BACKER
						BOLSTER
						SUB BOL
						HOLES
						FINISH CODE
						EXP PI



ACTUAL SIZE

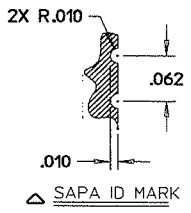
PLEASE SPECIFY END USE

PLEASE SPECIFY ANY EXPOSED SURFACE

Report #: E3508-301-44
 Date: 12/18/2014
 Verified by: *[Signature]*



REV	THIS IS NOT A SAPA EXTRUSIONS DESIGN. SAPA EXTRUSIONS ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR THE PERFORMANCE OF PRODUCTS PRODUCED THEREFROM. SAPA EXTRUSIONS MAKES NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE WITH REGARD TO THE EXTRUSIONS PRODUCED PURSUANT TO THIS DRAWING.
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sapa:
 1811 E. Railroad Street
 City of Industry, CA 91748

DIE NUMBER
E-8381

DRAWING NUMBER

SKYCO SKYLIGHTS

CUSTOMER NAME

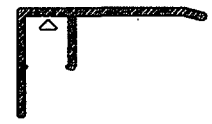
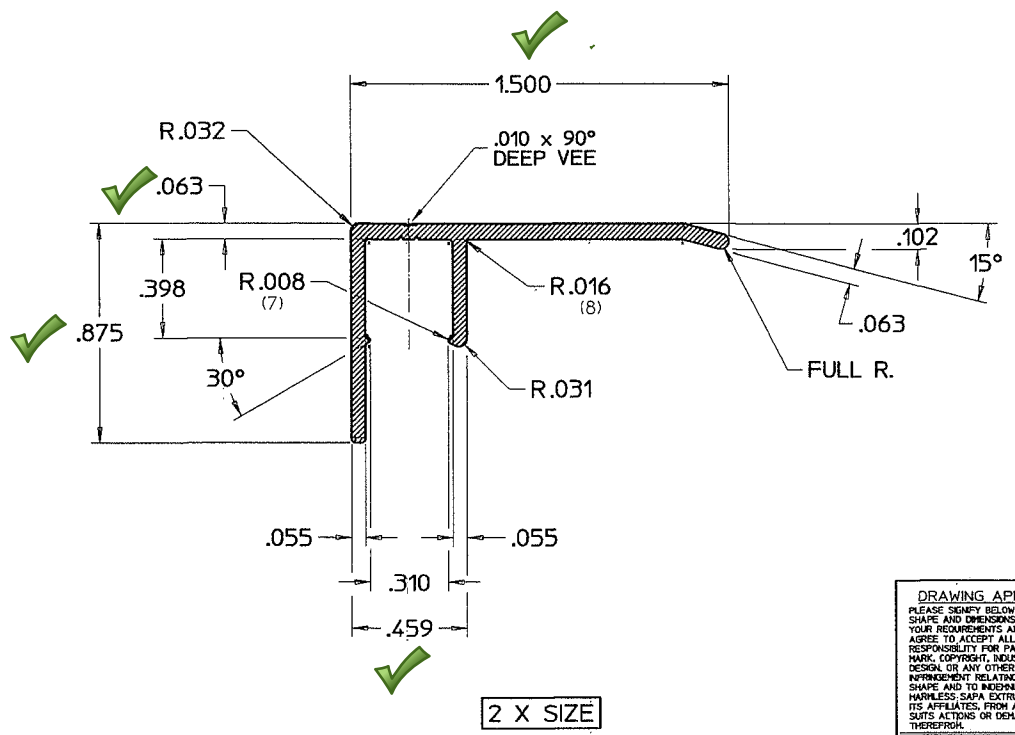
PART NAME **SI PERIMETER CAP**

PART NO DATE **7-17-2014**

* DENOTES CRITICAL DIMENSION OR TOLERANCE ALUMINUM ASSOCIATION STANDARD TOLERANCES APPLY U.O.S.

TYP WALL U.O.S.: TYP RAD U.O.S.:

DIE NUMBER	E-8381
DRAWING NUMBER	
LB/FT	.194
AREA	.162
PERI	5.579
ADJ PERI	----
CCFAC	1.7 2:
TYPE	SOLID
TIE.VOL	----
DRN BY	DSK
ALLOY	6063-T5
SOLD BY	
BACKER	
BOLSTER	
SUB BOL	
HOLES	
FINISH CODE	
EXP PI	



ACTUAL SIZE

PLEASE SPECIFY
 END USE

PLEASE SPECIFY ANY
 EXPOSED SURFACE

DRAWING APPROVAL
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 DATE:

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 PLEASE INDICATE WHETHER ID MARK IS TO BE RAISED OR RECESSED.

SIGNED BY:
 DATE:

 Report #: E3508-301-44
 Date: 12/18/2014
 Verified by: [Signature]

