TEST REPORT

Report No.: E3508.03-301-44

Rendered to:

SKYCO SKYLIGHTS
Costa Mesa, California

PRODUCT TYPE: Louvered Curb Mount Skylight
SERIES/MODEL: 4896-A-S-CM-SPW-MF/4896 Vortex Rain Shield CM

Title	Summary of Results
Air Infiltration	130 cfm/ft^2 @ 0.040 psf
Air Infiltration	100 cfm/ft^2 @ 0.025 psf

Reference must be made to Report No. E3508.03-301-44, dated 01/08/2015 for complete test specimen description and detailed test results.

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 Product Type: Louvered Curb Mount Skylight

3.2 Series/Model: 4896-A-S-CM-SPW-MF/4896 Vortex Rain Shield CM

3.3 Compliance Statement: Results obtained are tested values and were secured by using the designated test method. Test specimen description and results are reported herein.

3.4 Test Dates: 12/09/2014 – 12/11/2014

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.'s test facility in Lake Forest, California.

3.7 Test Specimen Source: The specimens were selected by Architectural Testing, Inc. personnel. The specimen was witnessed during production and tagged prior to shipment on December 05, 2014, (Reference Architectural Testing Test Specimen Selection Report No. E3507.01-301-15, dated December 08, 2014). Representative samples of the test specimen 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 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.

3.9 List of Official Observers:

Name	Company
Bob Sampson	RCS Consulting
Ryan Marshall	Skyco Skylights
Patrick Walsh	Skyco Skylights
Jarod Hardman	Architectural Testing, Inc.

4.0 Test Method:

ASTM E 283-04, *Test Method for Determining Rate of Airflow Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen.*

5.0 Test Specimen Description:

5.1 Product Sizes:

Overall Area: 3.38 m^2 (36.37 ft^2)	**Width**		**Height**	
	millimeters	**inches**	**millimeters**	**inches**
Overall skylight size	2546	100-1/4	1327	52-1/4
Dome height	-	-	333	13-1/8
Overall louver curb size	2546	100-1/4	1327	52-1/4
Louver height	-	-	289	11-3/8

5.2 Frame Construction:

Frame Member	**Material**	**Description**
Skylight 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.
Louver base	20 Gauge steel	See attached Drawing #ASSY021.
Rain guard	24 Gauge steel	See attached Drawing #SLRG100 and Drawing #SLRG101.
Exterior louver panel	20 Gauge steel	See attached Drawing #SLLP100 and Drawing #SLLP101.

	Joinery Type	**Detail**
Skylight 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.
Louver base	Mitered	Corners welded at exterior face of joint.
Rain guard and exterior louver panel	Mitered	Corners overlapped one another and the rain guard was secured between the louver panel and base with #10 x 1/2" hex head tek screws.

5.0 Test Specimen Description: (Continued)

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

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		Glass Bite
		millimeters	inches	
Dome	1	2438 x 1219	96 x 48	1"

5.5 Drainage:

Drainage Method	Size	Quantity	Location
Weep hole	1/4" diameter	8	One at each corner and mid-span of each side through frame between snap in cap receiver and press fit gasket receiver.

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 1/2" shim space. The exterior perimeter of the skylight was sealed at the curb with silicone sealant.

Location	Anchor Description	Anchor Location
Full perimeter of skylight to louver	#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.
Full perimeter of louver to curb	#10 x 1/2" hex head tek screw	3" from each corner and 12" on center spacing.

7.0 Test Results: The temperature during testing was 22°C (72°F). The results are tabulated as follows:

Title of Test	Results	Allowed	Note
Air Leakage, per ASTM E 283 at 1.92 Pa (0.040 psf)	650 L/s/m^2 (130 cfm/ft^2)	Report Only	1
Air Leakage, per ASTM E 283 at 1.20 Pa (0.025 psf)	500 L/s/m^2 (100 cfm/ft^2)	Report Only	2

***General Note**: All testing was performed in accordance with the referenced standard(s).*

Note 1: Air infiltration testing was conducted to the maximum air flow capabilities of the equipment used, desired air infiltration pressure of 1.57 psf was not achieved. Any achieved results are as reported.

Note 2: Air infiltration testing pressure and flow were logged at 100 cfm to provide a point of reference for comparison with max flow reading of equipment used.

Architectural Testing will service this report for the entire test record retention period. Test records that are retained such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation will be retained by Architectural Testing, Inc. for the entire test record retention period.

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.

Digitally Signed by: Jarod Hardman

Jarod S. Hardman
Laboratory Manager

JSH:ss

Attachments (pages): This report is complete only when all attachments listed are included.
Appendix-A: Drawings (25)

2524 E. Jensen Avenue
Fresno, CA 93706

www.archtest.com • www.intertek.com/building

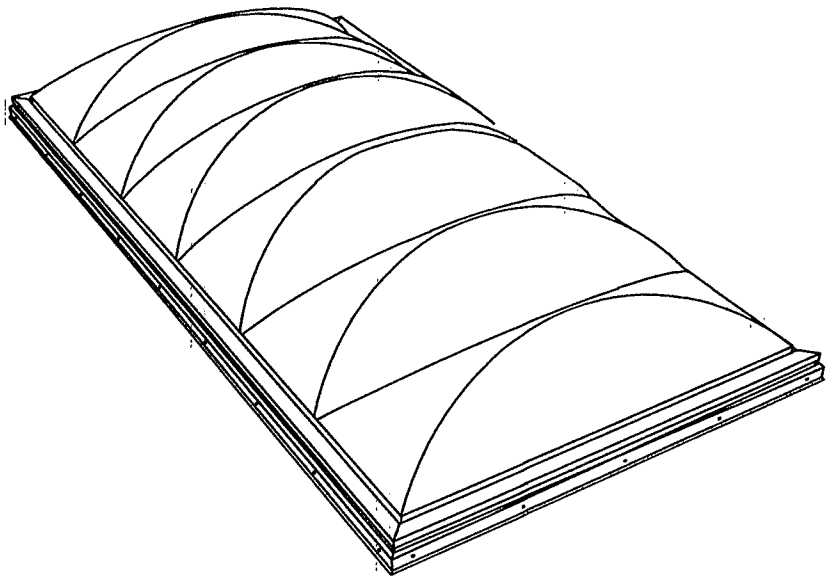
p. 559.233.8705
f. 717.764.4129

Appendix A

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



Architectural Testing

Report #: E3508-301-44

Date: 12/18/2014

Verified by:

PARTS LIST

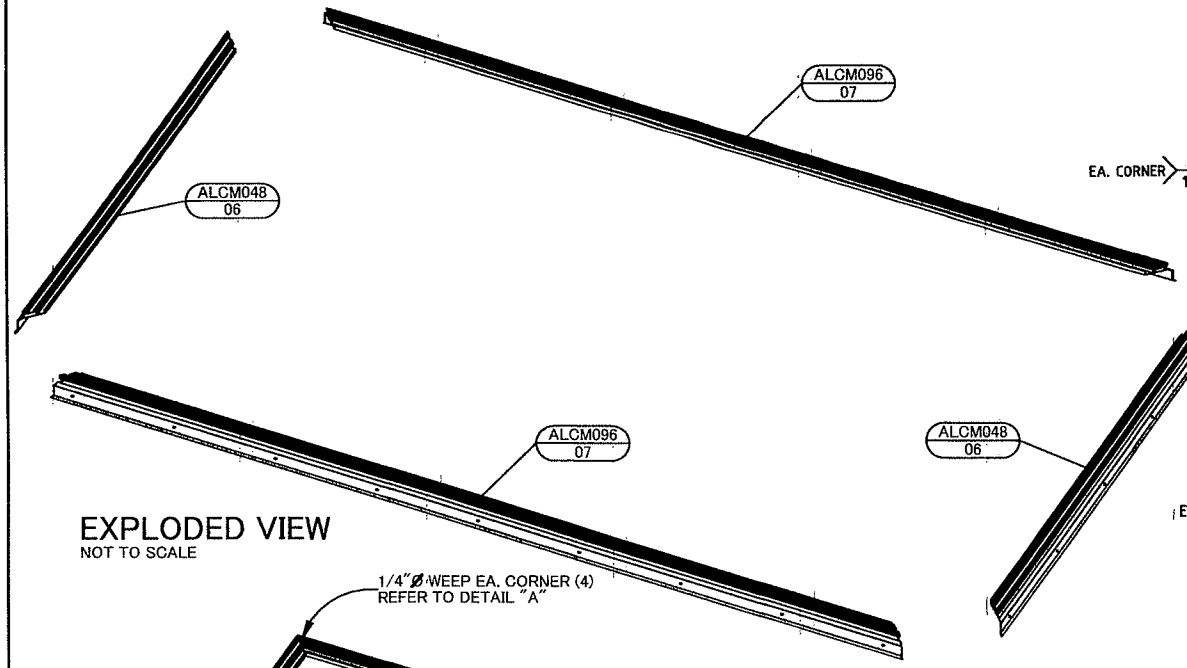
ITEM NO.	PAGE	REFERENCE	DESCRIPTION	MATERIAL	FINISH	QUANTITY
1.	06	ALCM048 05	CM-R FRAME 048	6063-T5 ALUMINUM	MILL	2
2.	07	ALCM096 06	CM-R FRAME 096	6063-T5 ALUMINUM	MILL	2
3.	08	SICP048 07	SNAP-IN PERIMETER CAP 048	6063-T5 ALUMINUM	MILL	2
4.	09	SICP096 08	SNAP-IN PERIMETER CAP 096	6063-T5 ALUMINUM	MILL	2
5.	10	GSKT048 09	EPDM GASKET 048	ETHYLENE PROPYLENE DIENE MONOMER RUBBER	BLACK	2
6.	11	GSKT096 10	EPDM GASKET 096	ETHYLENE PROPYLENE DIENE MONOMER RUBBER	BLACK	2
7.	12	DOME400 11	5098 SKYPRO SKYWAVE DOME	0.118" CC1 POLYCARBONATE	HIGH WHITE	1
8.	04/05	SEAL100 04/05	SCHNEE-MOREHEAD POLY-GLAZE PLUS SEALANT	SILICONE	CLEAR	AS REQ'D.

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

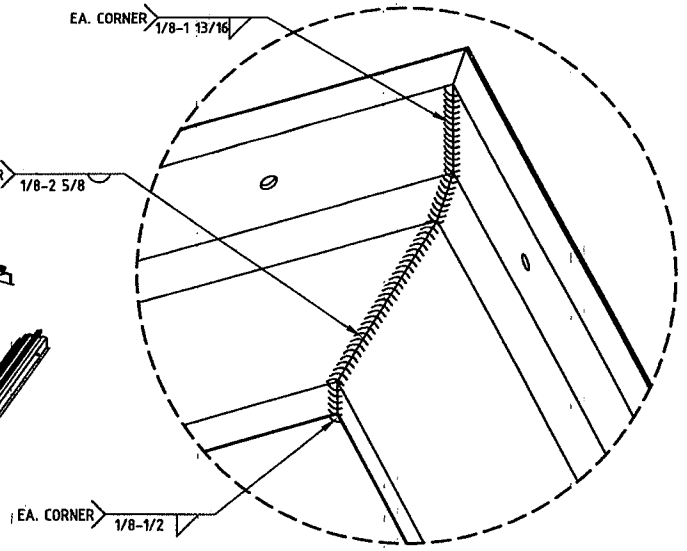
A-S-CM AIR, WATER & STRUCTURAL TEST

RELEASE DATE: 12/04/14

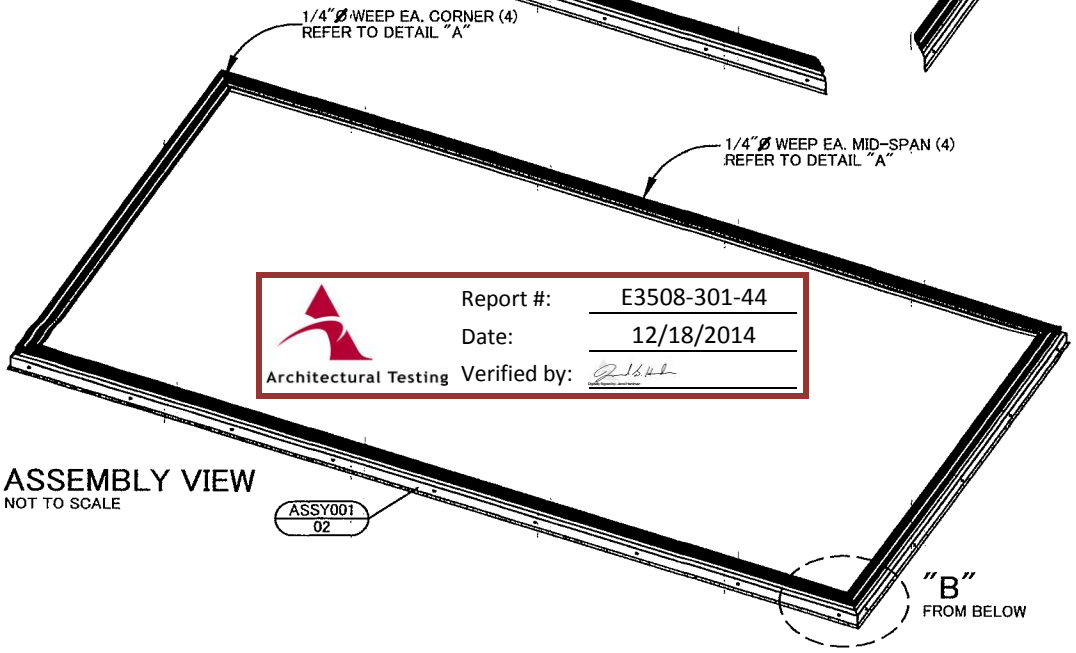
SHEET: 01 OF: 14



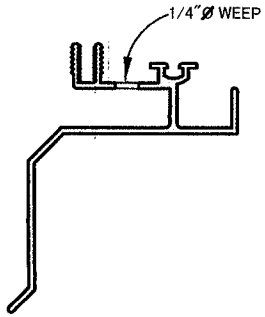
EXPLODED VIEW
NOT TO SCALE



VIEW DETAIL "B"
NOT TO SCALE



ASSEMBLY VIEW
NOT TO SCALE



SECTION DETAIL "A"
HALF SCALE

Architectural Testing
Report #: E3508-301-44
Date: 12/18/2014
Verified by:

PART / PAGE LEGEND	QTY.
ALCM048 / 06 — CM-R FRAME 048	2
ALCM096 / 07 — CM-R FRAME 096	2

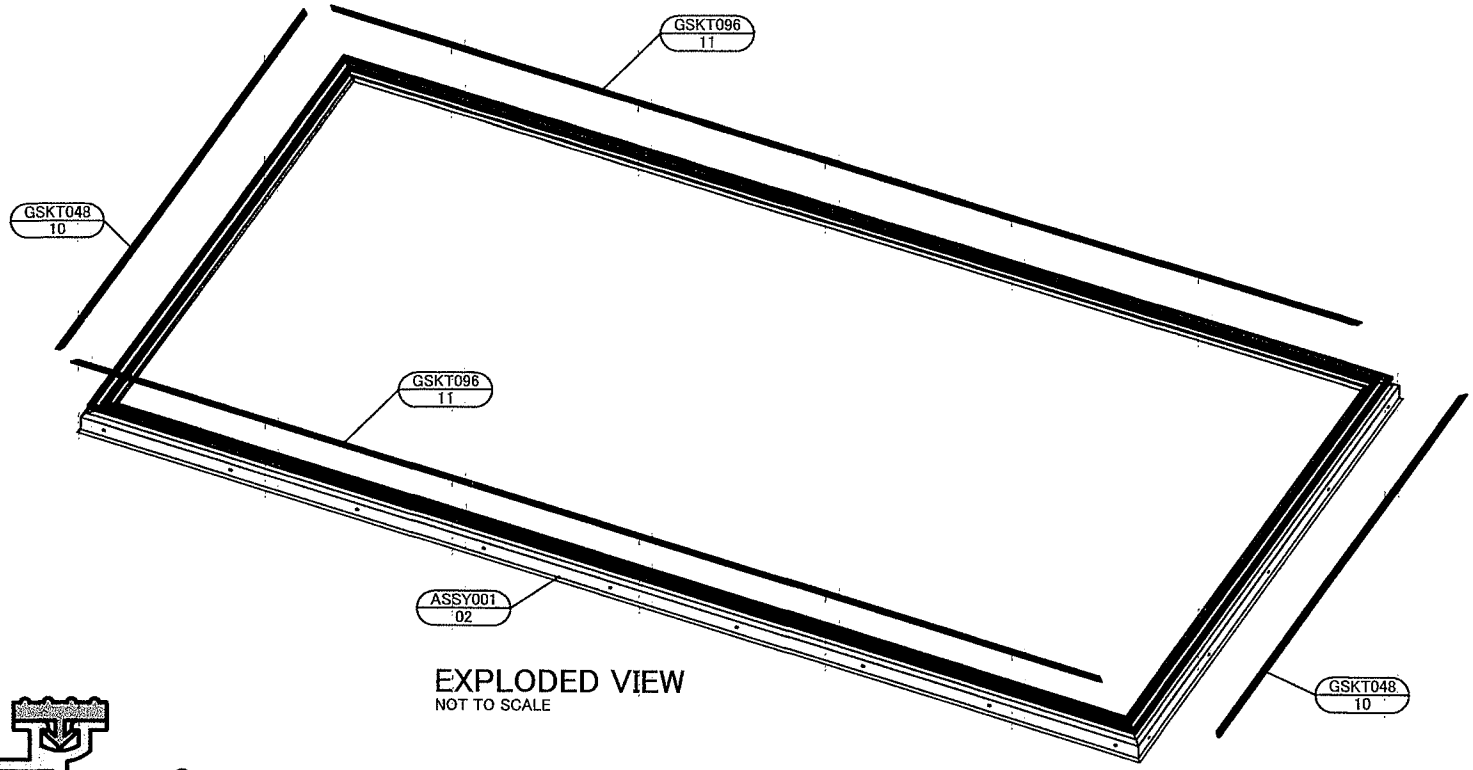
SKYCO SKYLIGHTS

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

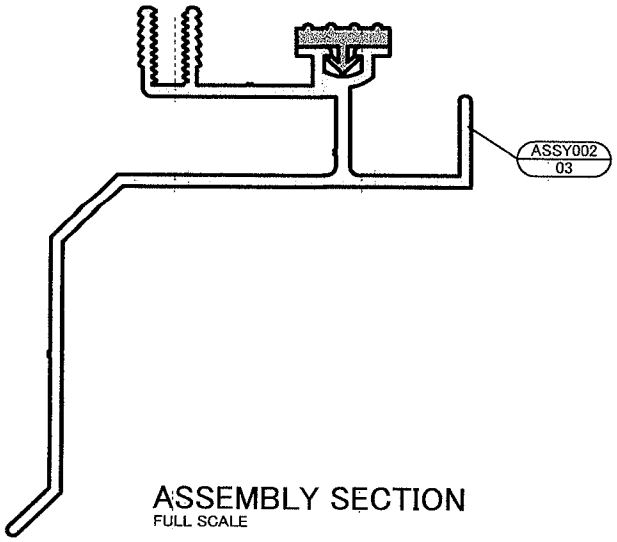
DESCRIPTION: CURB FRAME ASSEMBLY
MATERIAL: 6063-T5 ALUMINUM
FINISH: MILL

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

DRAWING NUMBER: ASSY001
DATE: 12/04/14
SHEET: 02 OF: 14



EXPLODED VIEW
NOT TO SCALE



ASSEMBLY SECTION
FULL SCALE

Architectural Testing

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

PART / PAGE LEGEND	QTY.
ASSY001 / 02 CURB FRAME ASSEMBLY	1
GSKT048 / 10 EPDM GASKET 048	2
GSKT096 / 11 EPDM GASKET 096	2

SKYCO SKYLIGHTS

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

DESCRIPTION : CURB FRAME & EPDM GASKET ASSEMBLY

MATERIAL : VARIES

FINISH: MILL

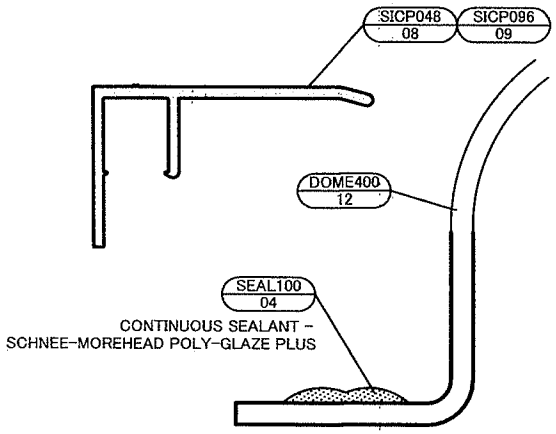
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
DECIMAL X.XXX: 0.010
ANGLES ± 0.2°

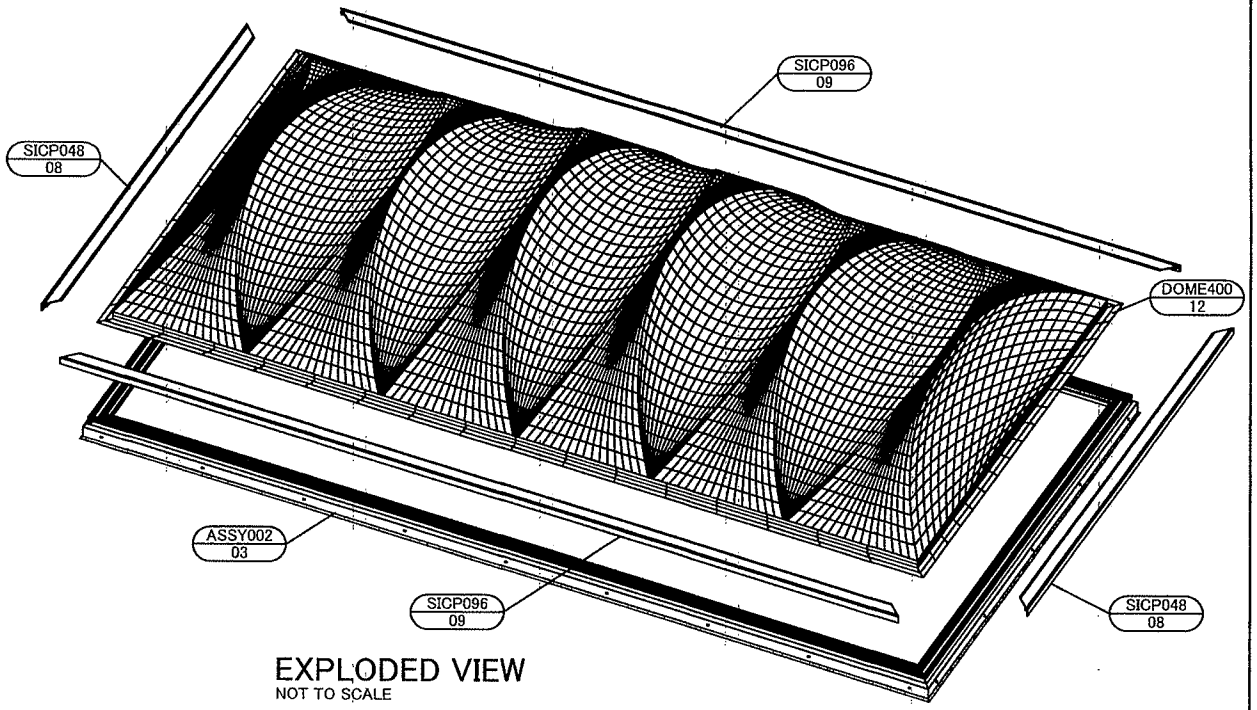
DRAWING NUMBER: ASSY002

DATE : 12/04/14

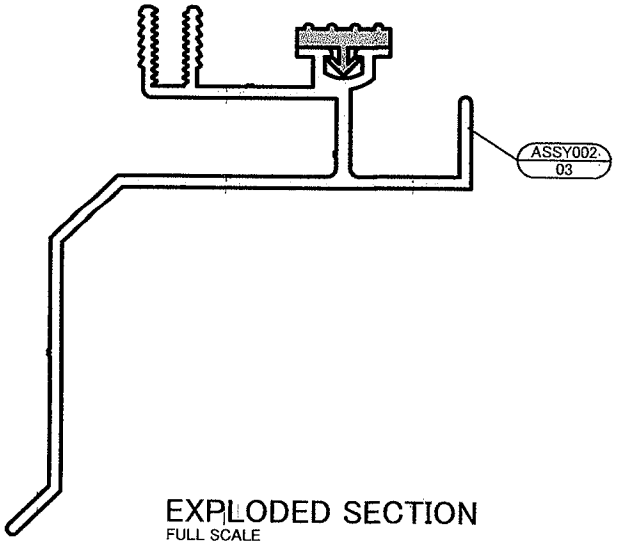
SHEET: 03 OF: 14

NOTES: (UNLESS OTHERWISE SPECIFIED)
1.) DOME MESH DENOTES CONTOUR ONLY





EXPLODED VIEW
NOT TO SCALE



EXPLODED SECTION
FULL SCALE

Architectural Testing
Report #: E3508-301-44
Date: 12/18/2014
Verified by:

PART / PAGE LEGEND	QTY.
ASSY002 / 03 — CURB FRAME ASSEMBLY	1
SICP048 / 08 — SNAP-IN CAP 048	2
SICP096 / 09 — SNAP-IN CAP 096	2
DOME400 / 12 — 5098 SKYPRO DOME	1
SEAL100 / 04 — SEALANT	AS REQ'D

SKYCO SKYLIGHTS

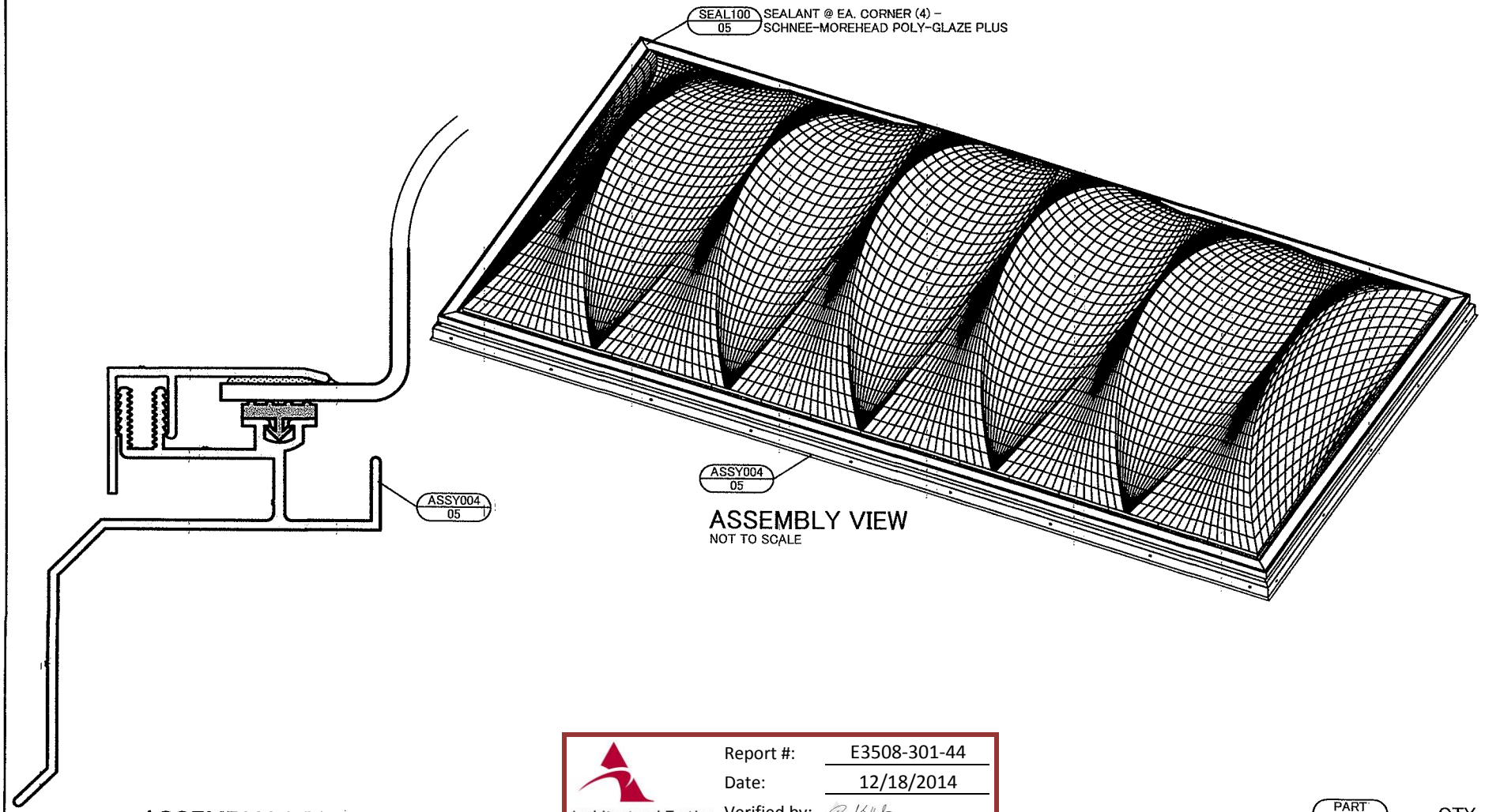
DESCRIPTION: 4896 A-S-CM EXPLODED DIAGRAMS
MATERIAL: VARIES
FINISH: VARIES
DRAWING NUMBER: ASSY003

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

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

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

NOTES: (UNLESS OTHERWISE SPECIFIED)
1.) DOME MESH DENOTES CONTOUR ONLY



ASSEMBLY VIEW
NOT TO SCALE

ASSEMBLY SECTION
FULL SCALE

Architectural Testing
Report #: E3508-301-44
Date: 12/18/2014
Verified by:

PART PAGE LEGEND		QTY.
SEAL100 05	SEALANT	AS REQ'D

SKYCO SKYLIGHTS

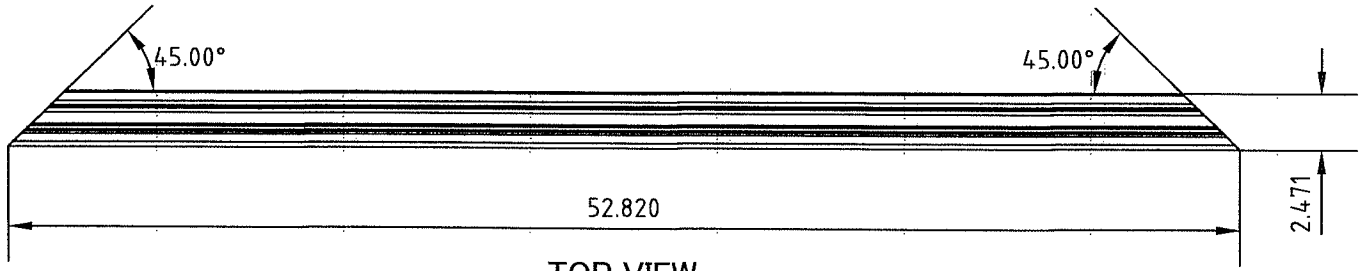
DESCRIPTION: 4896 A-S-CM
MATERIAL: VARIES
FINISH: VARIES
DRAWING NUMBER: ASSY004

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

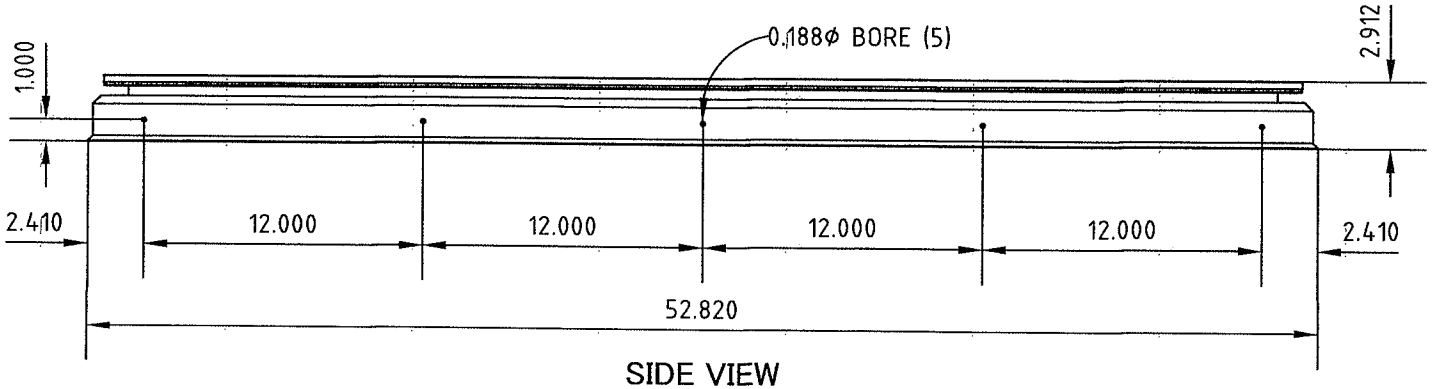
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
DECIMAL X.XXX: 0.010
ANGLES ± 0.2°

DATE: 12/04/14
SHEET: 05 OF: 14

NOTES: (UNLESS OTHERWISE SPECIFIED)
1.) ALUM. MANUFACTURERS STANDARDS APPLY



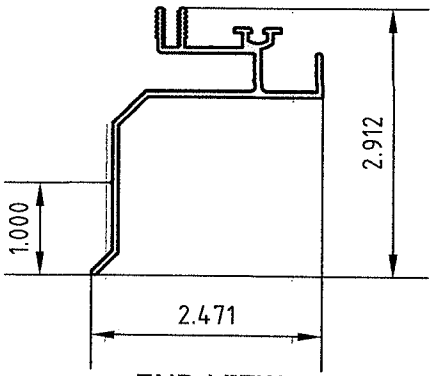
TOP VIEW
SCALE : 1 1/2" = 1'-0"



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

Architectural Testing

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



END VIEW
HALF SCALE

SKYCO SKYLIGHTS

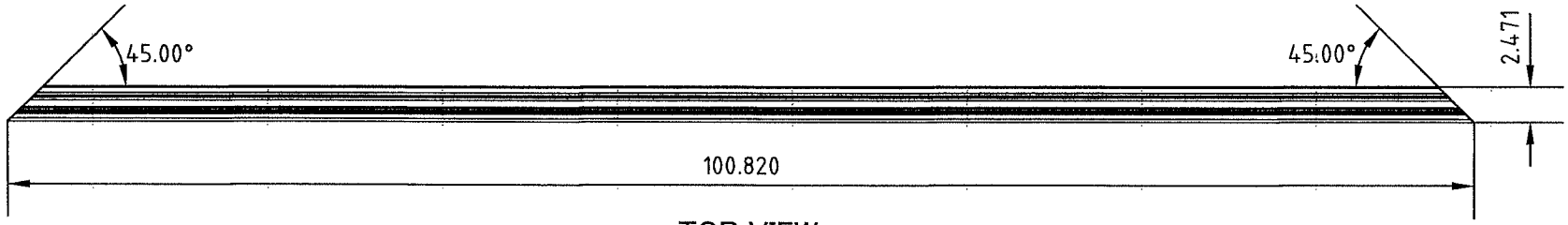
2995 AIRWAY AVENUE, SUITE B
COSTA MESA, CALIFORNIA 92626
Phone (949) 629-4090 | Fax (949) 629-4088

DESCRIPTION : CM-R FRAME 048
MATERIAL : 6063-T5 ALUMINUM
FINISH: MILL

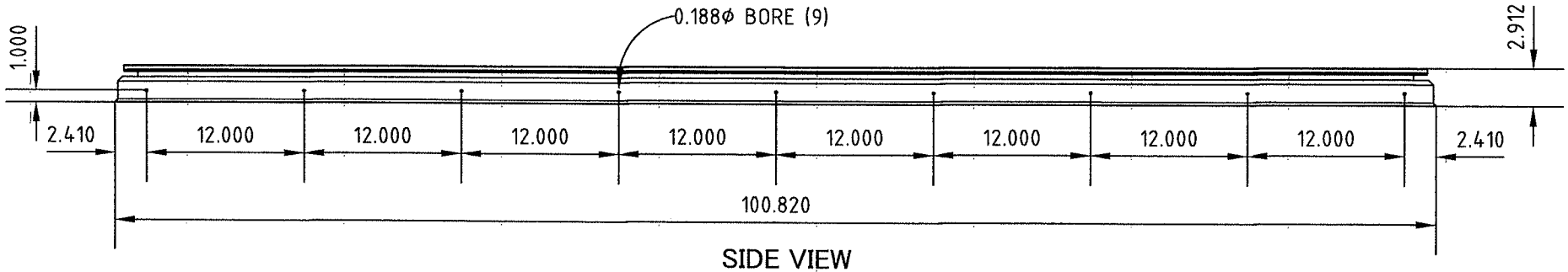
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
DECIMAL X.XXX: 0.010
ANGLES ± 0.2°

DRAWING NUMBER: ALCM048
DATE : 12/04/14
SHEET: 06 OF: 14

NOTES: (UNLESS OTHERWISE SPECIFIED)
1.) ALUM. MANUFACTURERS STANDARDS APPLY

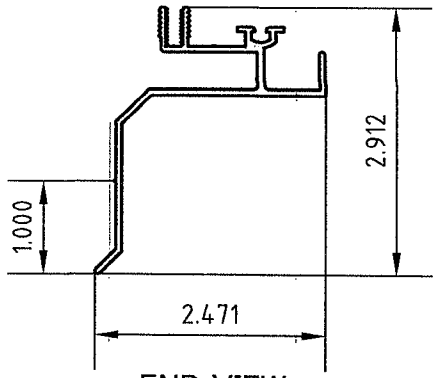


TOP VIEW
SCALE : 1" = 1'-0"



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

Architectural Testing
Report #: E3508-301-44
Date: 12/18/2014
Verified by:

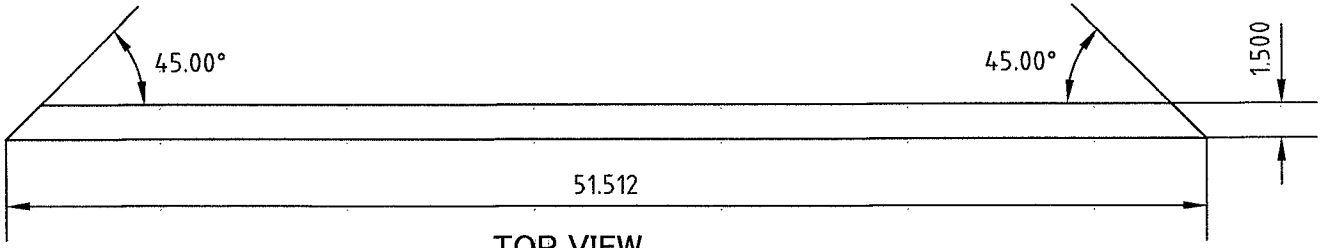


END VIEW
HALF SCALE

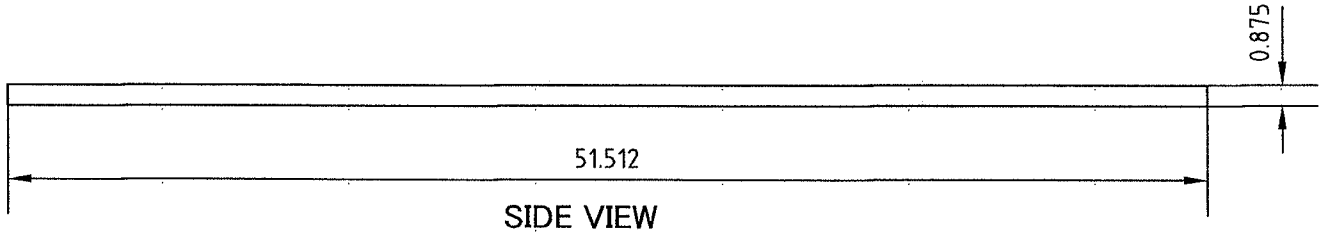
SKYCO SKYLIGHTS

DESCRIPTION : CM-R FRAME 096			DRAWING NUMBER: ALCM096
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°	DATE : 12/04/14 SHEET: 07 OF: 14

NOTES: (UNLESS OTHERWISE SPECIFIED)
1.) ALUM. MANUFACTURERS STANDARDS APPLY

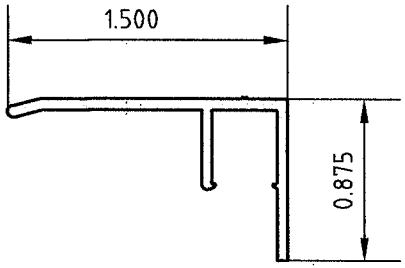


TOP VIEW
SCALE : 1 1/2" = 1'-0"



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

Architectural Testing
Report #: E3508-301-44
Date: 12/18/2014
Verified by:



END VIEW
FULL SCALE

SKYCO SKYLIGHTS

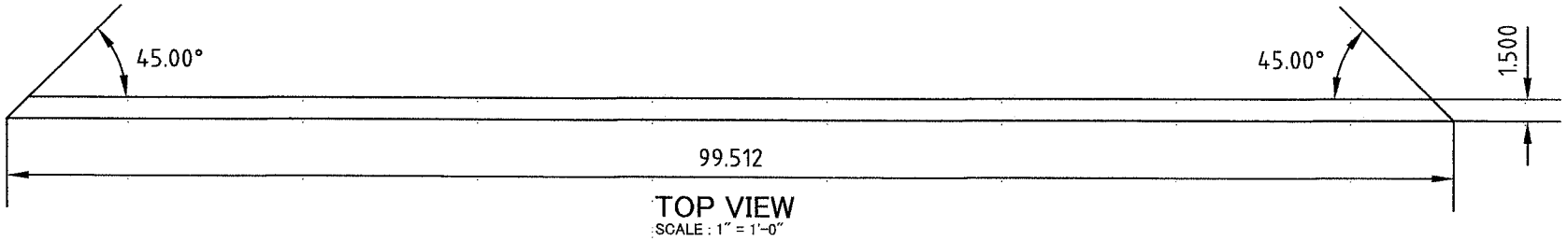
2995 AIRWAY AVENUE, SUITE B
COSTA MESA, CALIFORNIA 92626
Phone (949) 629-4090 Fax (949) 629-4088

DESCRIPTION : SNAP-IN PERIMETER CAP 048
MATERIAL : 6063-T5 ALUMINUM
FINISH: MILL

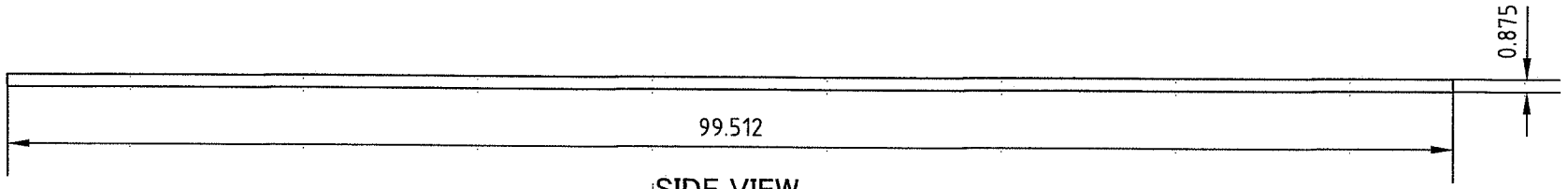
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
DECIMAL X.XXX: 0.010
ANGLES ± 0.2°

DRAWING NUMBER: SICP048
DATE : 12/04/14
SHEET: 08 OF: 14

NOTES: (UNLESS OTHERWISE SPECIFIED)
1.) ALUM. MANUFACTURERS STANDARDS APPLY

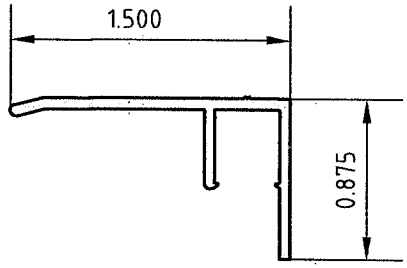


TOP VIEW
SCALE : 1" = 1'-0"



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

Architectural Testing
Report #: E3508-301-44
Date: 12/18/2014
Verified by:



END VIEW
FULL SCALE

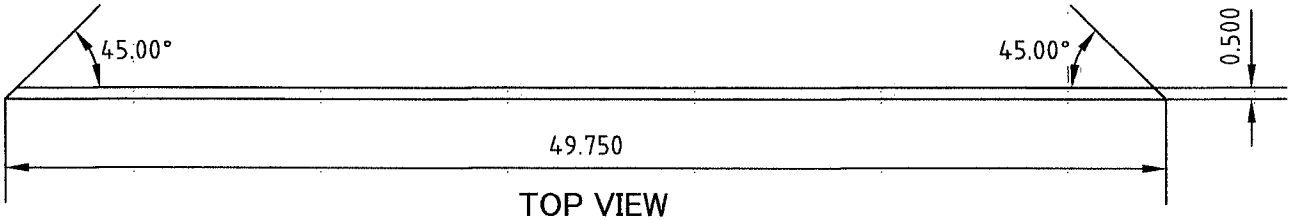
SKYCO SKYLIGHTS

DESCRIPTION : SNAP-IN PERIMETER CAP 096
MATERIAL : 6063-T5 ALUMINUM
FINISH: MILL
DRAWING NUMBER: SICP096

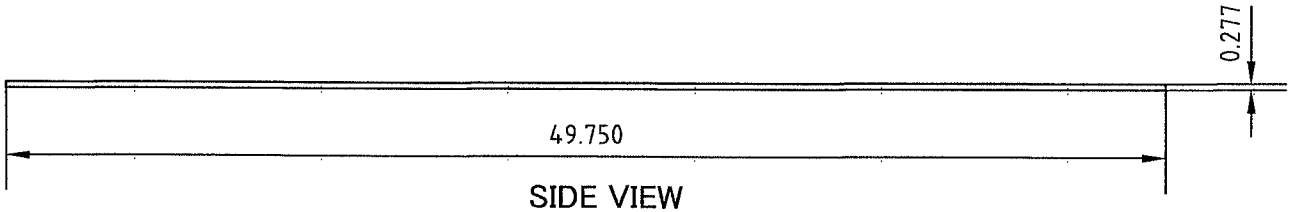
2995 AIRWAY AVENUE, SUITE B
COSTA MESA, CALIFORNIA 92626
Phone (949) 629-4090 Fax (949) 629-4088

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

DATE : 12/04/14
SHEET: 09 OF: 14



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

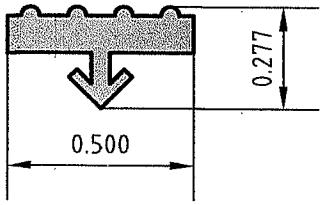


SIDE VIEW
SCALE : 1 1/2" = 1'-0"

Architectural Testing

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

ACTUAL SIZE



END VIEW
2X SCALE

SKYCO SKYLIGHTS

DESCRIPTION: EPDM GASKET 048

MATERIAL: ETHYLENE PROPYLENE DIENE MONOMER RUBBER

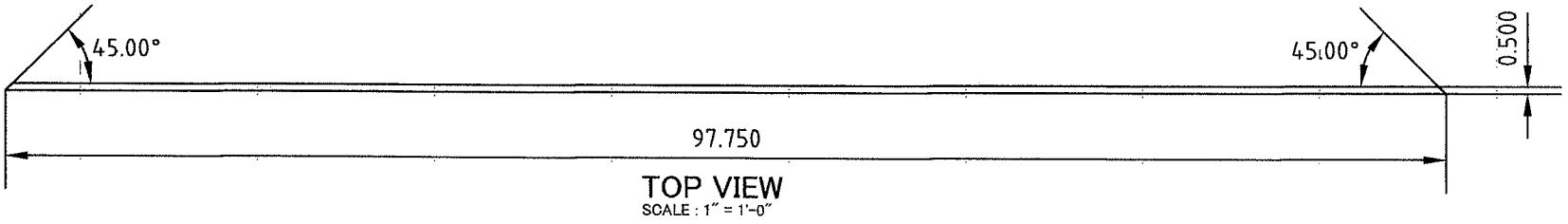
FINISH: BLACK

DRAWING NUMBER: GSKT048

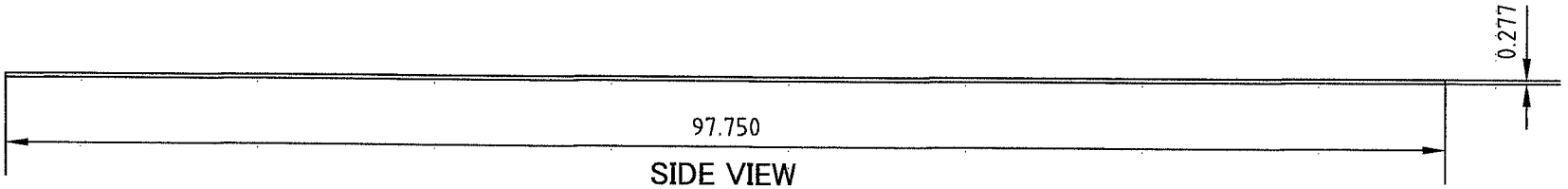
2995 AIRWAY AVENUE, SUITE B
COSTA MESA, CALIFORNIA 92626
Phone (949) 629-4090 Fax (949) 629-4088

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

DATE: 12/04/14



TOP VIEW
SCALE : 1″ = 1′-0″

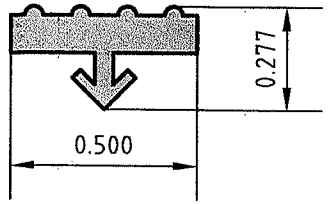


SIDE VIEW
SCALE : 1″ = 1′-0″

Architectural Testing

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

ACTUAL SIZE



END VIEW
2X SCALE

SKYCO SKYLIGHTS

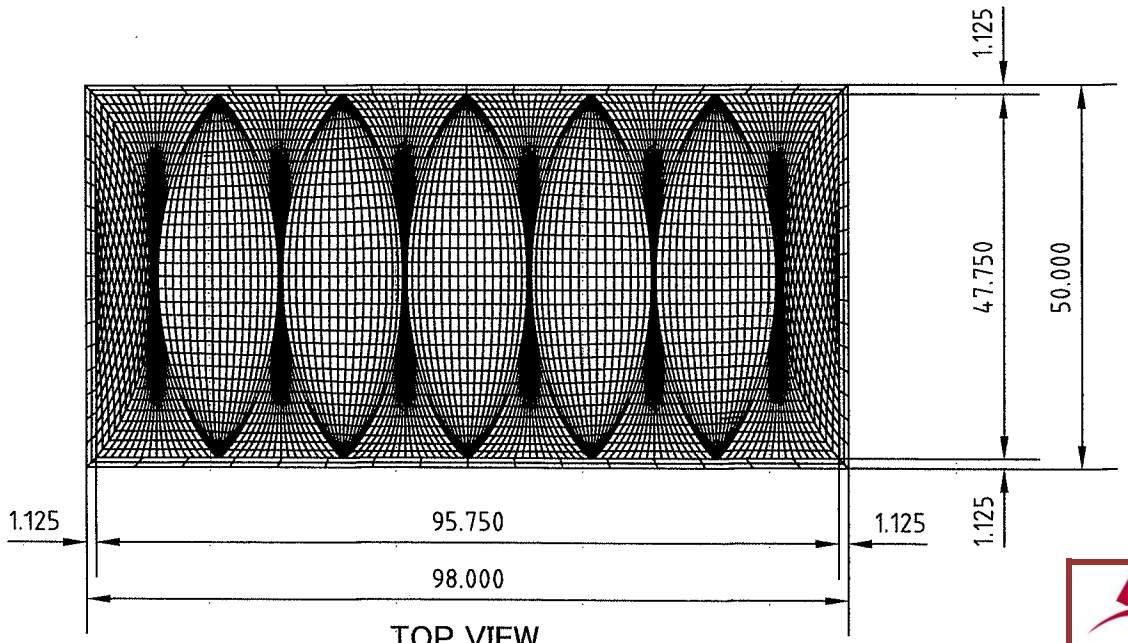
2995 AIRWAY AVENUE, SUITE B
COSTA MESA, CALIFORNIA 92626
Phone (949) 629-4090 Fax (949) 629-4088

DESCRIPTION : EPDM GASKET 096
MATERIAL : ETHYLENE PROPYLENE DIENE MONOMER RUBBER
FINISH: BLACK

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

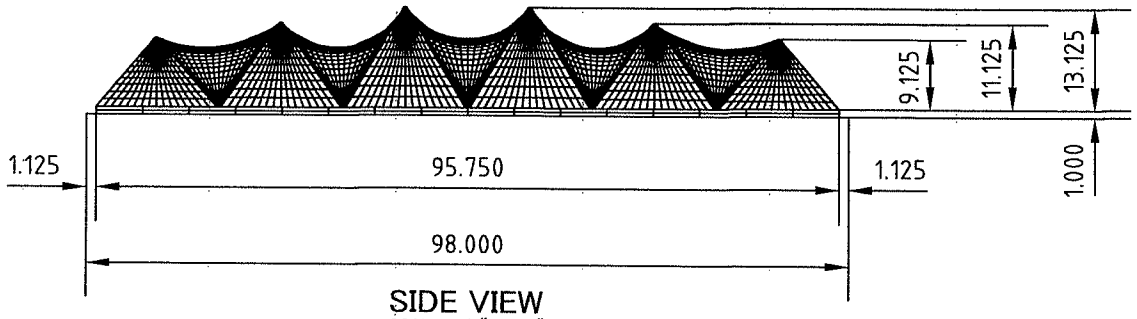
DRAWING NUMBER: GSKT096
DATE : 12/04/14
SHEET: 11 OF: 14

NOTES: (UNLESS OTHERWISE SPECIFIED)
1.) DOME MESH DENOTES CONTOUR ONLY

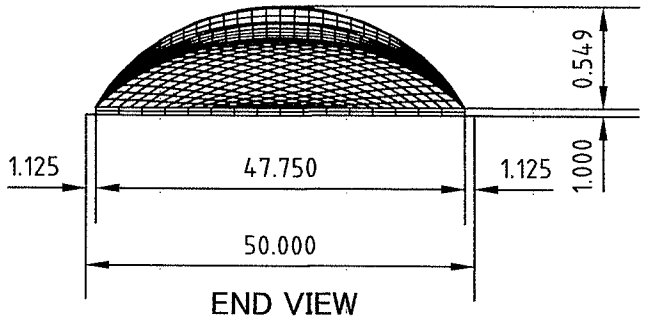


TOP VIEW
SCALE : 1/2" = 1'-0"

Architectural Testing
Report #: E3508-301-44
Date: 12/18/2014
Verified by:



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



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

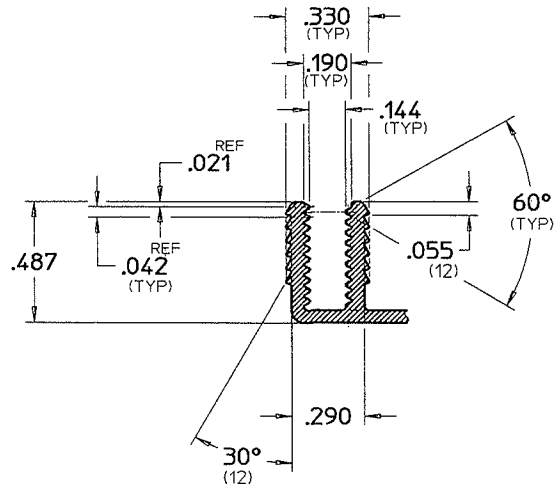
SKYCO SKYLIGHTS

DESCRIPTION : 5098 SKYPRO SKYWAVE DOME
MATERIAL : 0.118" CC1 POLYCARBONATE
FINISH: HIGH WHITE
DRAWING NUMBER: DOME400

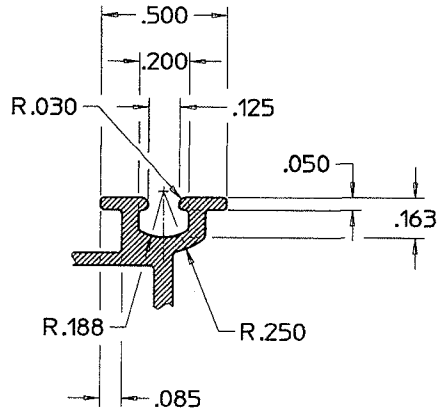
2995 AIRWAY AVENUE, SUITE B
COSTA MESA, CALIFORNIA 92626
Phone (949) 629-4090 | Fax (949) 629-4088

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

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 INDEMNIFY AND SAVE HARMLESS SAPA EXTRUDER 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

sapa:

18111 E. Railroad Street
City of Industry, CA 91748

SKYCO SKYLIGHTS

CUSTOMER NAME

PART NAME CM-R FRAME

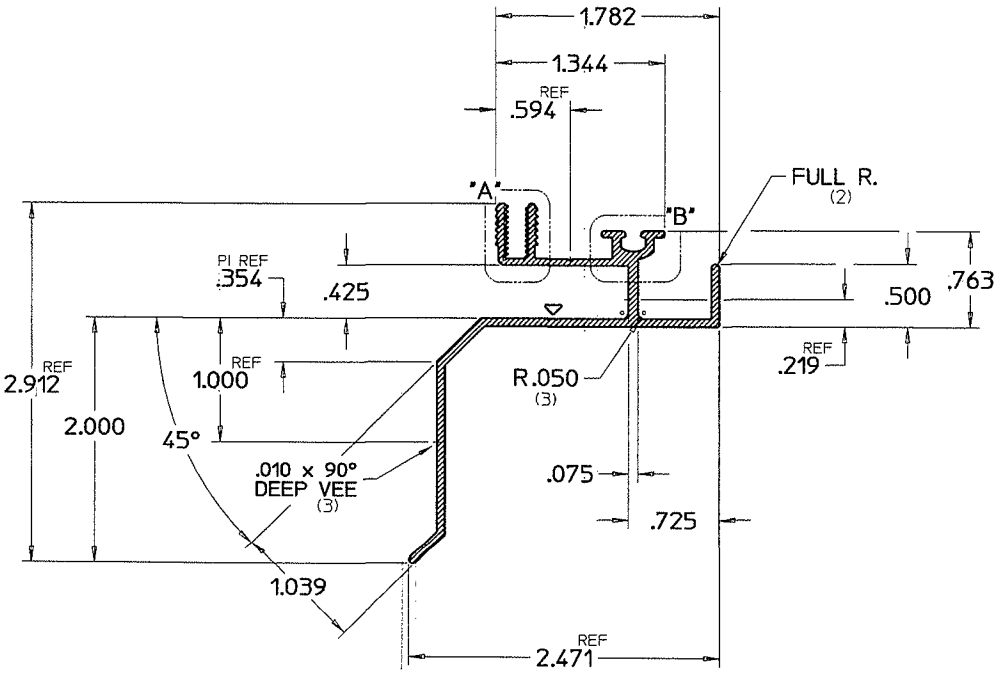
PART NO

DATE 7-17-2014

* DENOTES CRITICAL DIMENSION OR TOLERANCE

ALUMINUM ASSOCIATION STANDARD TOLERANCES APPLY U.O.S.

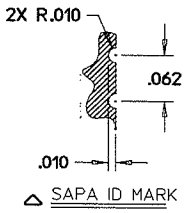
TYP WALL U.O.S.: .063 ±.010 TYP RAD U.O.S.: .016



ACTUAL SIZE

PLEASE SPECIFY END USE

PLEASE SPECIFY ANY EXPOSED SURFACE



△ SAPA ID MARK

Architectural Testing

Report #: E3508-301-44

Date: 12/18/2014

Verified by:

DIE NUMBER	E-8380
DRAWING NUMBER	
LB/FT	.578
AREA	.482
PERI	15.793
ADJ PERI	-----
CC/FAC	3.5 | 2
TYPE	SOLID
TIE.VOL	----
DRN BY	DSK
ALLOY	6063-T
SOLD BY	
BACKER	
BOLSTER	
SUB BOL	
HOLES	
FINISH CODE	
EXP PI	

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.

DIE NUMBER	DRAWING NUMBER
E-8381	

sapa:

18111 E. Railroad Street
City of Industry, CA 91748

SKYCO SKYLIGHTS
CUSTOMER NAME

PART NAME SI PERIMETER CAP

PART NO

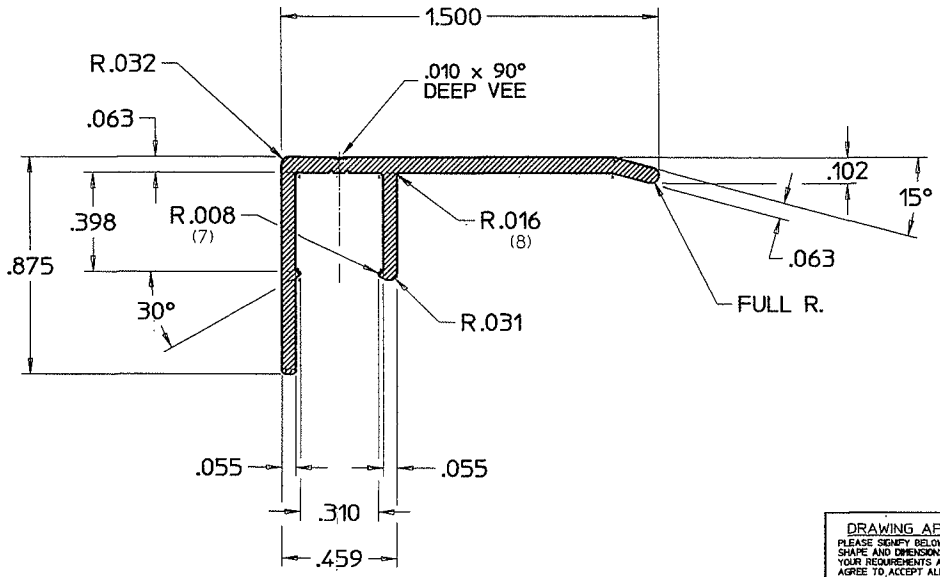
DATE 7-17-2014

* DENOTES CRITICAL DIMENSION OR TOLERANCE

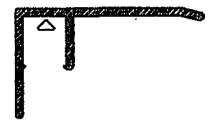
ALUMINUM ASSOCIATION STANDARD TOLERANCES APPLY U.O.S.

TYP WALL U.O.S.: ----

TYP RAD U.O.S.: ----



2 X SIZE



ACTUAL SIZE

PLEASE SPECIFY
END USE

PLEASE SPECIFY ANY
EXPOSED SURFACE

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 INDEMNIFY AND SAVE HARMLESS SAPA EXTRUDER 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:

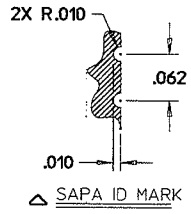
DATE:

Architectural Testing

Report #: E3508-301-44

Date: 12/18/2014

Verified by:



△ SAPA ID MARK

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

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.

INDEX / PARTS LIST

PAGE	ILLUSTRATION	DESCRIPTION	MATERIAL	FINISH	QUANTITY	TOTAL QTY.
01		INDEX / PARTS LIST / HARDWARE LIST				
02	ASSY021	VORTEX BASE ASSEMBLY				
03	ASSY022	RAIN GUARD & LOUVER PANEL ASSEMBLY – SIDES				
04	ASSY023	RAIN GUARD & LOUVER PANEL ASSEMBLY – ENDS				
05	ASSY024	4896 VORTEX RAIN SHIELD CM				
06	SLCM100	LOUVER BASE – ENDS	20 GA. (0.0396) ASTM A TYPE B	G90 GALVANIZED	2	
07	SLCM101	LOUVER BASE SIDES	20 GA. (0.0396) ASTM A TYPE B	G90 GALVANIZED	2	
08	SLLP100	LOUVER PANEL – ENDS	20 GA. (0.0396) ASTM A TYPE B	G90 GALVANIZED	2	
09	SLLP101	LOUVER PANEL – SIDES	20 GA. (0.0396) ASTM A TYPE B	G90 GALVANIZED	2	
10	SLRG100	RAIN GUARD – ENDS	24 GA. (0.0276) ASTM A TYPE B	G90 GALVANIZED	2	
11	SLRG101	RAIN GUARD – SIDES	24 GA. (0.0276) ASTM A TYPE B	G90 GALVANIZED	2	

HARDWARE LIST

ITEM	REFERENCE	DESCRIPTION	MATERIAL	FINISH	QUANTITY	TOTAL QTY.
1	HDWR01 / 01	#10-16 X 0.500 HEX HEAD TEK SCREW		ZINC	44	

Architectural Testing

Report #: E3508-301-44

Date: 12/18/2014

Verified by:

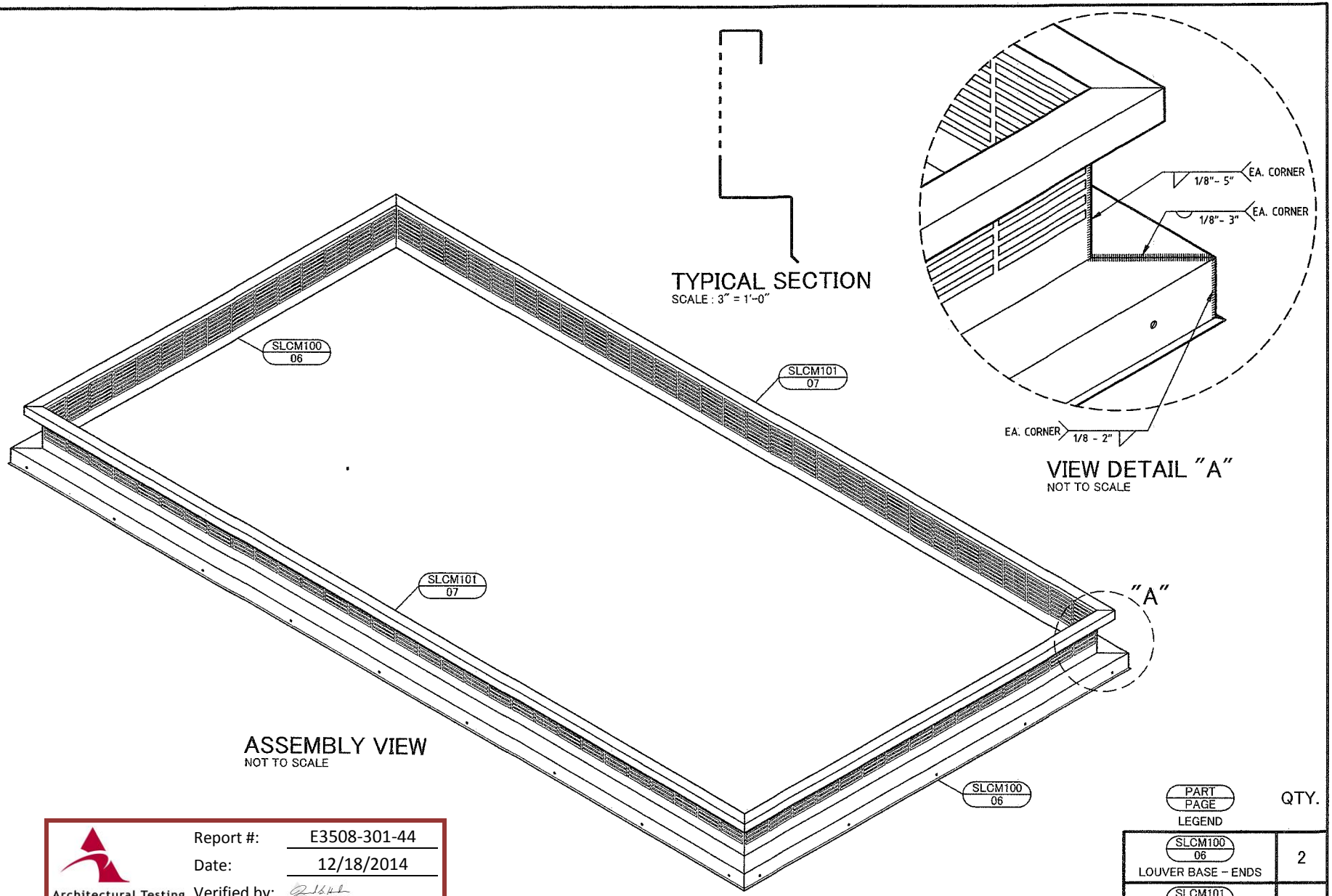
ORDER NO.	CUSTOMER	PROJECT	DELIVERY ADDRESS	DATE	RELEASE DATE
					10/31/14

SKY SKYLIGHTS

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

4896 VORTEX RAIN SHIELD CM

SHEET: 01
OF: 11



ASSEMBLY VIEW
NOT TO SCALE

TYPICAL SECTION
SCALE : 3" = 1'-0"

VIEW DETAIL "A"
NOT TO SCALE

Architectural Testing

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

PART PAGE	LEGEND	QTY.
SLCM100 06	LOUVER BASE – ENDS	2
SLCM101 07	LOUVER BASE – SIDES	2

SKYCO SKYLIGHTS

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

DESCRIPTION : LOUVER BASE ASSEMBLY

MATERIAL : 20 Ga. (0.0396") ASTM A TYPE B

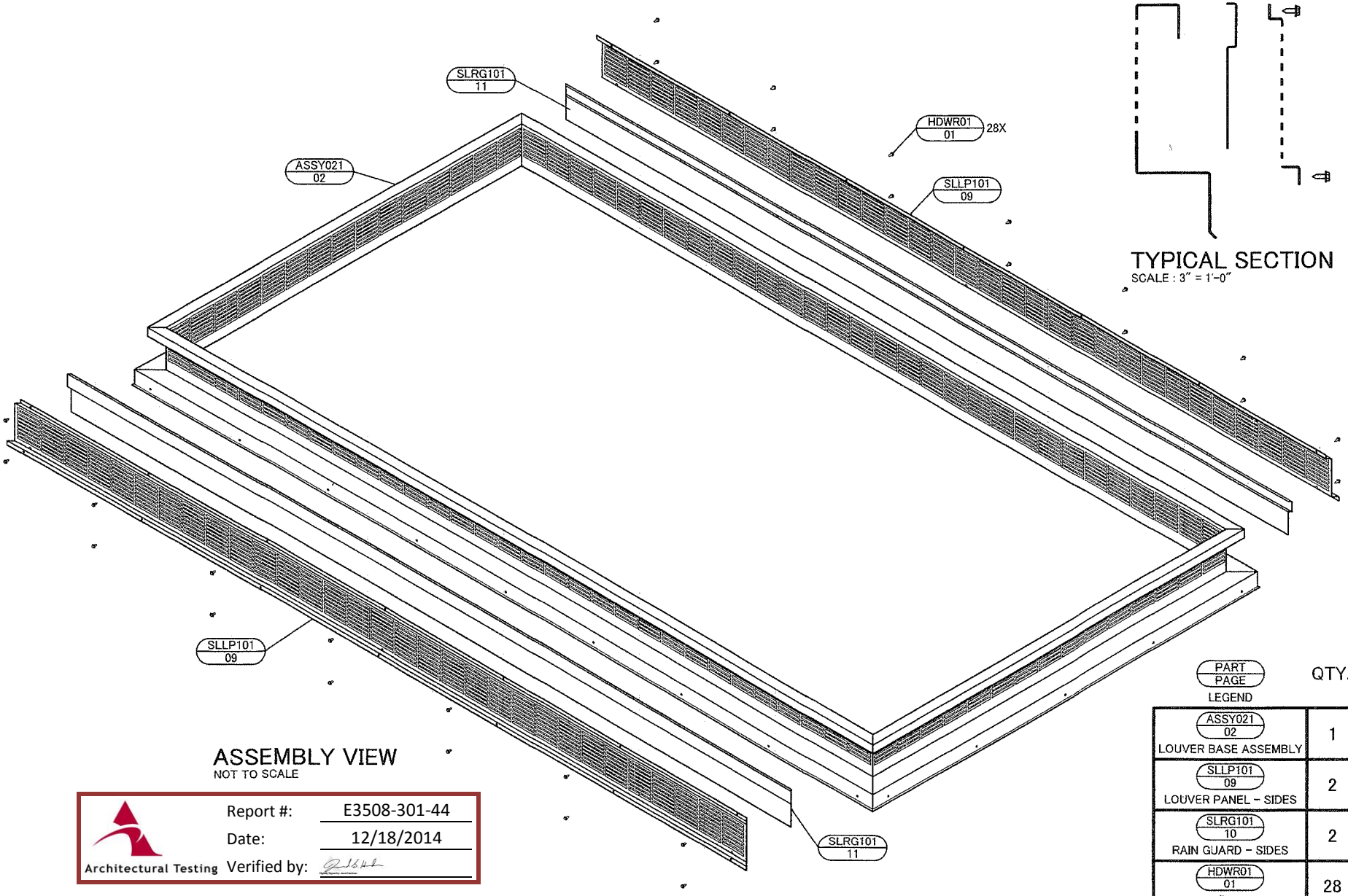
FINISH: G90 GALVANIZED

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

DRAWING NUMBER: ASSY021

DATE : 10/31/14

SHEET: 02 OF: 11



TYPICAL SECTION
SCALE : 3" = 1'-0"

ASSEMBLY VIEW
NOT TO SCALE

Architectural Testing

Report #: E3508-301-44

Date: 12/18/2014

Verified by:

PART / PAGE	LEGEND	QTY.
ASSY021 / 02	LOUVER BASE ASSEMBLY	1
SLLP101 / 09	LOUVER PANEL – SIDES	2
SLRG101 / 10	RAIN GUARD – SIDES	2
HDWR01 / 01	#10 X 1/2" TEK SCREW	28

SKYCO SKYLIGHTS

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

DESCRIPTION : RAIN GUARD & LOUVER PANEL ASSEMBLY – SIDES

MATERIAL : VARIES

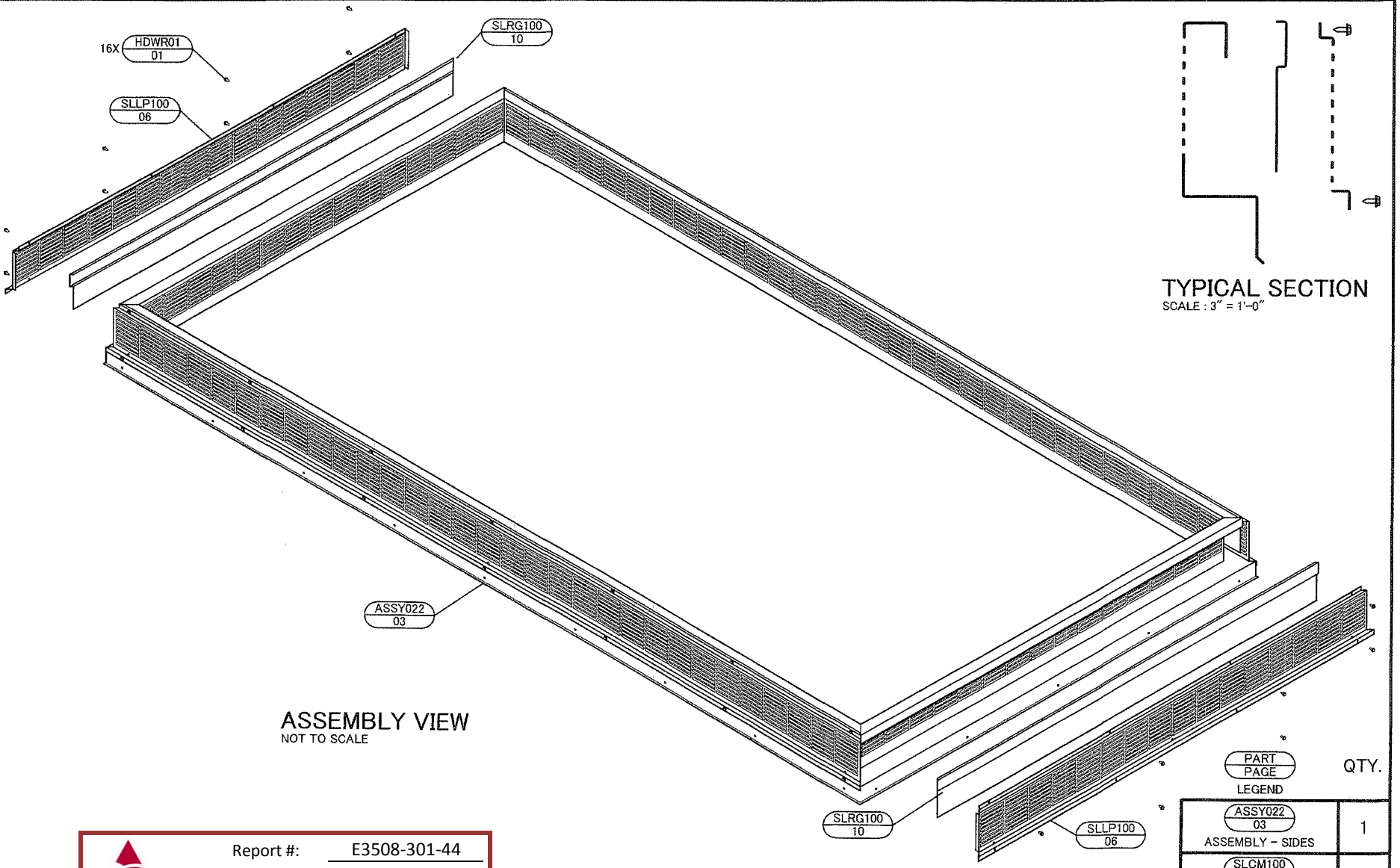
FINISH: VARIES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
DECIMAL X.XXX: 0.010
ANGLES ± 0.5°

DRAWING NUMBER: ASSY022

DATE : 10/31/14

SHEET: 03 OF: 11



ASSEMBLY VIEW
NOT TO SCALE

TYPICAL SECTION
SCALE : 3″ = 1'-0″

PART / PAGE	LEGEND	QTY.
ASSY022 / 03	ASSEMBLY – SIDES	1
SLCM100 / 06	RAIN SHIELD – ENDS	2
HDWR01 / 01	#10 X 1/2″ TEK SCREW	16
SLRG100 / 10	RAIN GUARD – ENDS	2

Architectural Testing
Report #: E3508-301-44
Date: 12/18/2014
Verified by:

SKYCO SKYLIGHTS

DESCRIPTION : RAIN GUARD & LOUVER PANEL ASSEMBLY – ENDS

MATERIAL : VARIES

FINISH: VARIES

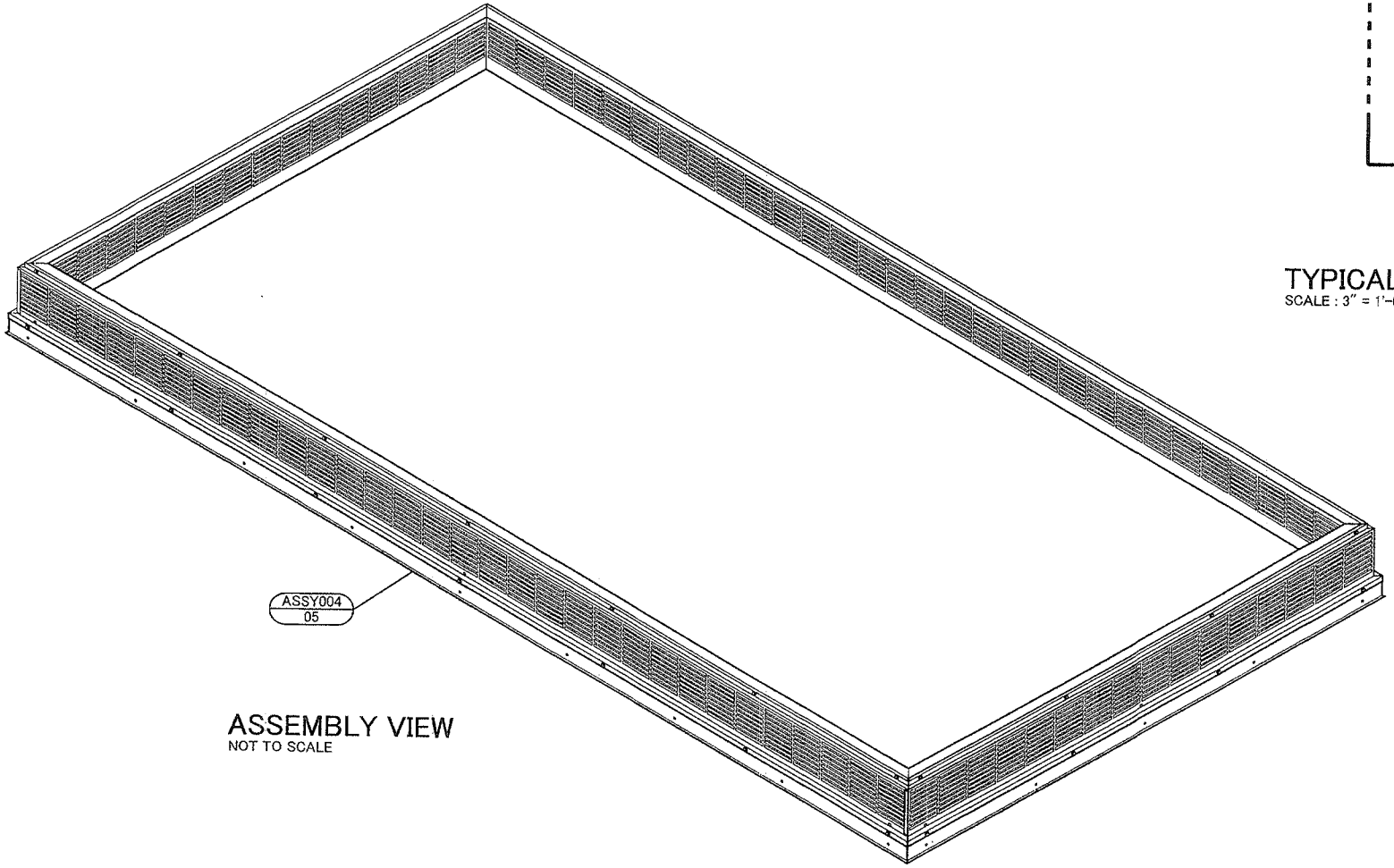
DRAWING NUMBER: ASSY023

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

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

DATE : 10/31/14

SHEET: 04 OF: 11



ASSEMBLY VIEW
NOT TO SCALE

TYPICAL SECTION
SCALE : 3" = 1'-0"

Architectural Testing

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

SKYCO SKYLIGHTS

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

DESCRIPTION : 4896 VORTEX RAIN SHIELD CM
MATERIAL : VARIES
FINISH: VARIES

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

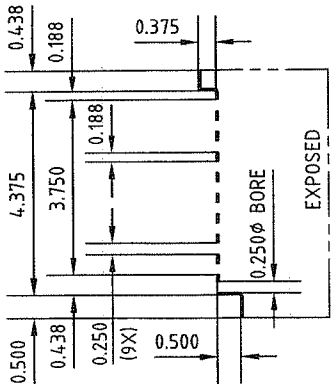
PART / PAGE LEGEND		QTY.
ASSY004 / 05	VORTEX RAIN SHIELD	1

DRAWING NUMBER: ASSY024

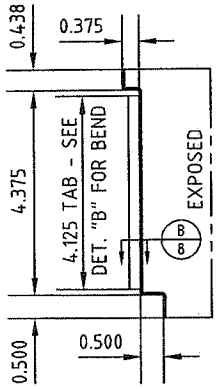
DATE : 10/31/14

SHEET: 05 OF: 11

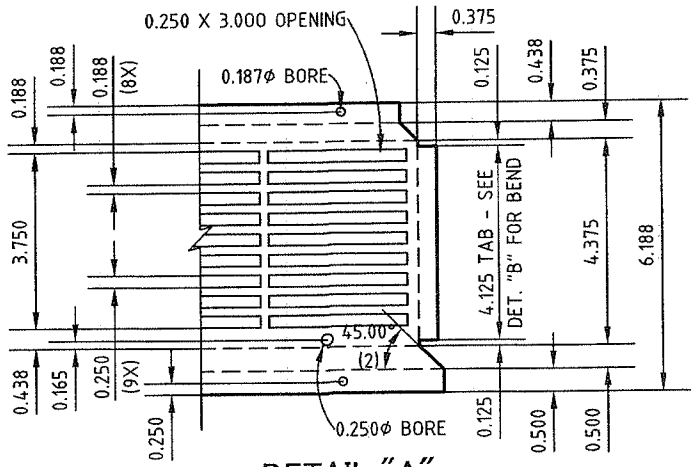
NOTES: (UNLESS OTHERWISE SPECIFIED)
1.) REMOVE ALL BURRS AND SHARP EDGES
2.) UNMARKED ANGLES = 90.00
3.) 0.030 INSIDE BEND RADIUS TYPICAL



SECTION @ OPENINGS
SCALE : 3" = 1'-0"

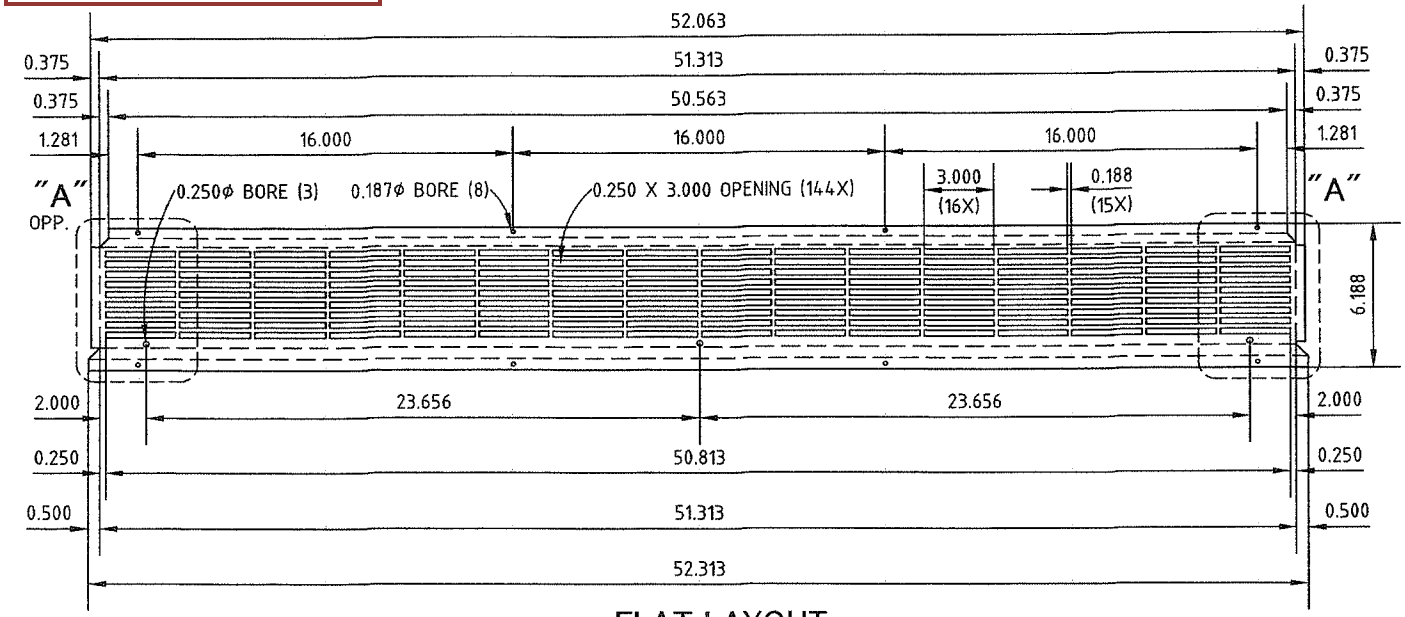


SECTION @ SOLID
SCALE : 3" = 1'-0"

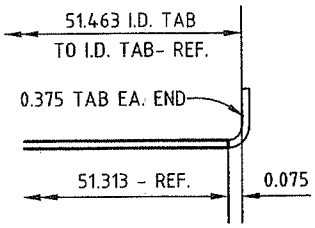


DETAIL "A"
SCALE : 3" = 1'-0"

Architectural Testing
Report #: E3508-301-44
Date: 12/18/2014
Verified by:



FLAT LAYOUT
SCALE : 1 1/2" = 1'-0"



DETAIL "B"
FULL SCALE

ORDER NO.:

QUANTITY:

SKYCO SKYLIGHTS

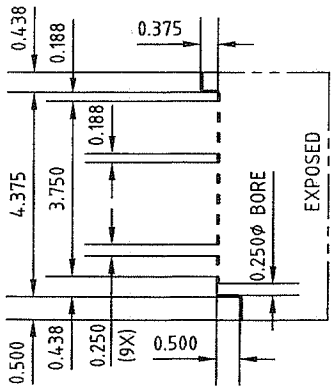
2995 AIRWAY AVENUE, SUITE B
COSTA MESA, CALIFORNIA 92626
Phone (949) 629-4090 Fax (949) 629-4088

DESCRIPTION: LOUVER PANEL – ENDS
MATERIAL: 20 Ga. (0.0396") ASTM A TYPE B
FINISH: G90 GALVANIZED

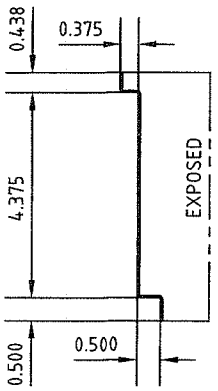
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
DECIMAL X.XXX: 0.010
ANGLES ± 0.2°

DRAWING NUMBER: SLLP100
DATE: 10/31/14
SHEET: 08 OF: 11

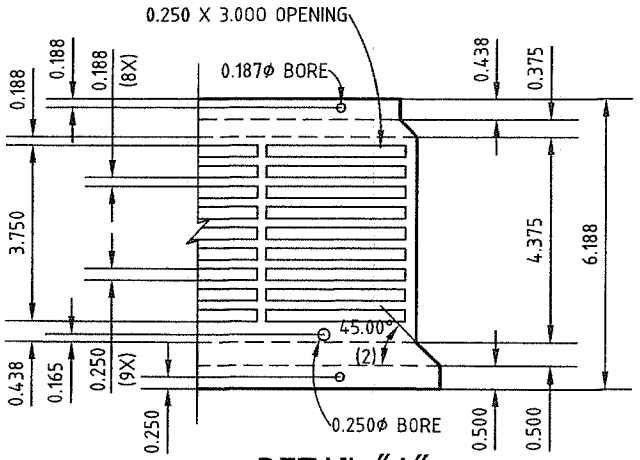
NOTES: (UNLESS OTHERWISE SPECIFIED)
1.) REMOVE ALL BURRS AND SHARP EDGES
2.) UNMARKED ANGLES = 90.00
3.) 0.030 INSIDE BEND RADIUS TYPICAL



SECTION @ OPENINGS
SCALE : 3" = 1'-0"

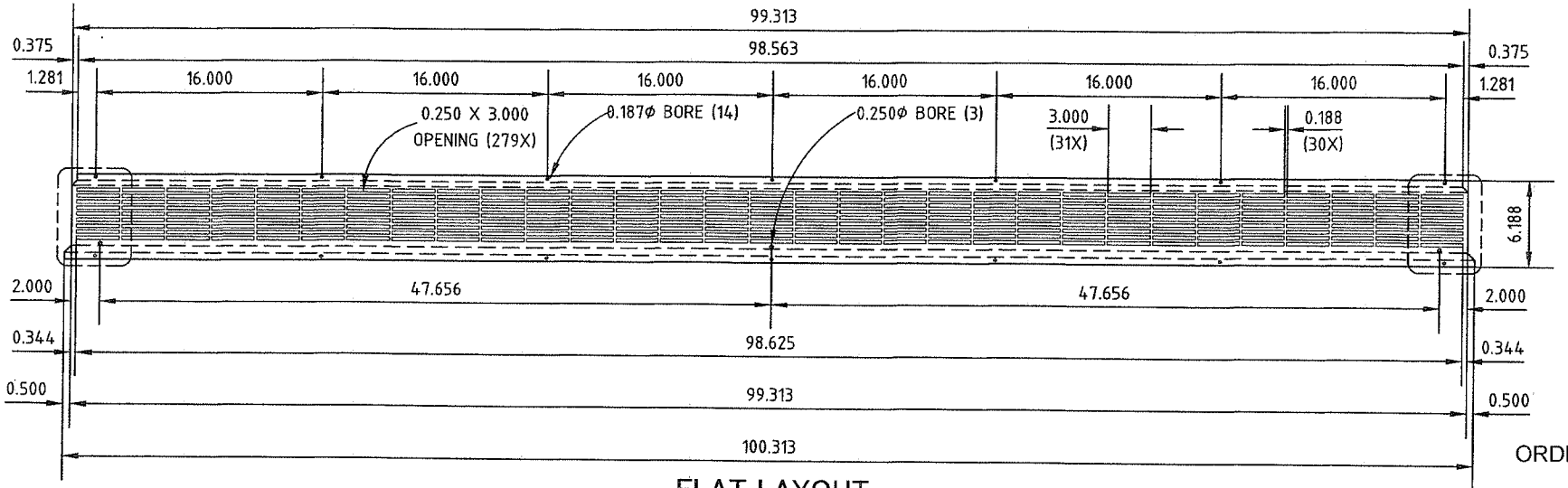


SECTION @ SOLID
SCALE : 3" = 1'-0"



DETAIL "A"
SCALE : 3" = 1'-0"

Architectural Testing
Report #: E3508-301-44
Date: 12/18/2014
Verified by:



FLAT LAYOUT
SCALE : 1" = 1'-0"

ORDER NO.:

QUANTITY:

SKYCO SKYLIGHTS

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

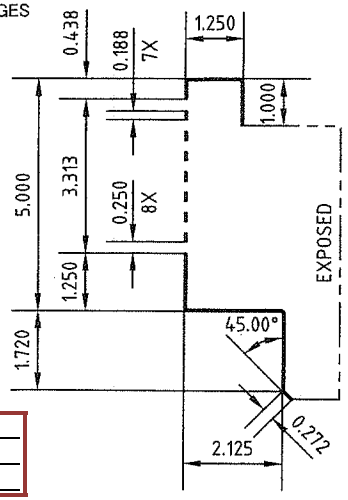
DESCRIPTION : LOUVER PANEL – SIDES
MATERIAL : 20 Ga. (0.0396") ASTM A TYPE B
FINISH: G90 GALVANIZED

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

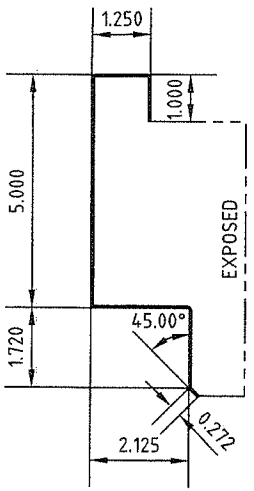
DRAWING NUMBER: SLLP101
DATE : 10/31/14
SHEET: 09 OF: 11

NOTES: (UNLESS OTHERWISE SPECIFIED)
1.) REMOVE ALL BURRS AND SHARP EDGES
2.) UNMARKED ANGLES = 90.00
3.) 0.030 INSIDE BEND RADIUS TYPICAL

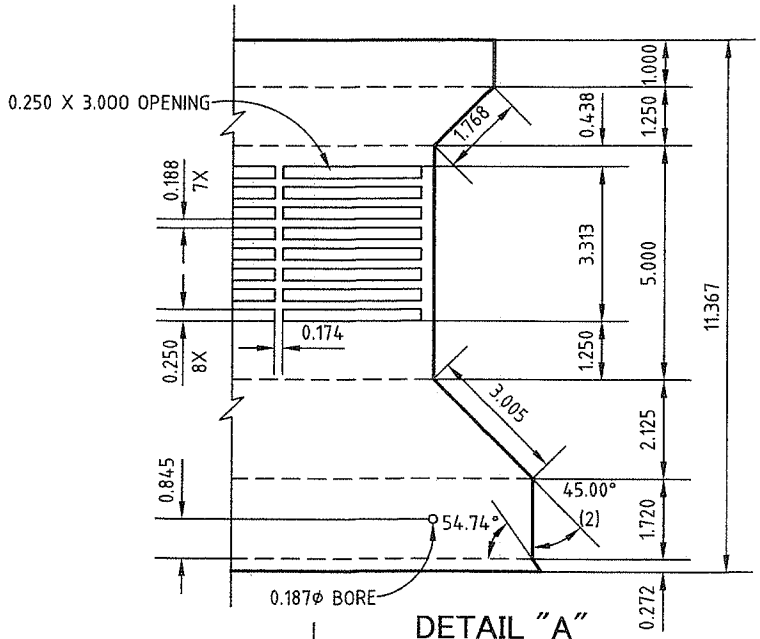
Architectural Testing
Report #: E3508-301-44
Date: 12/18/2014
Verified by:



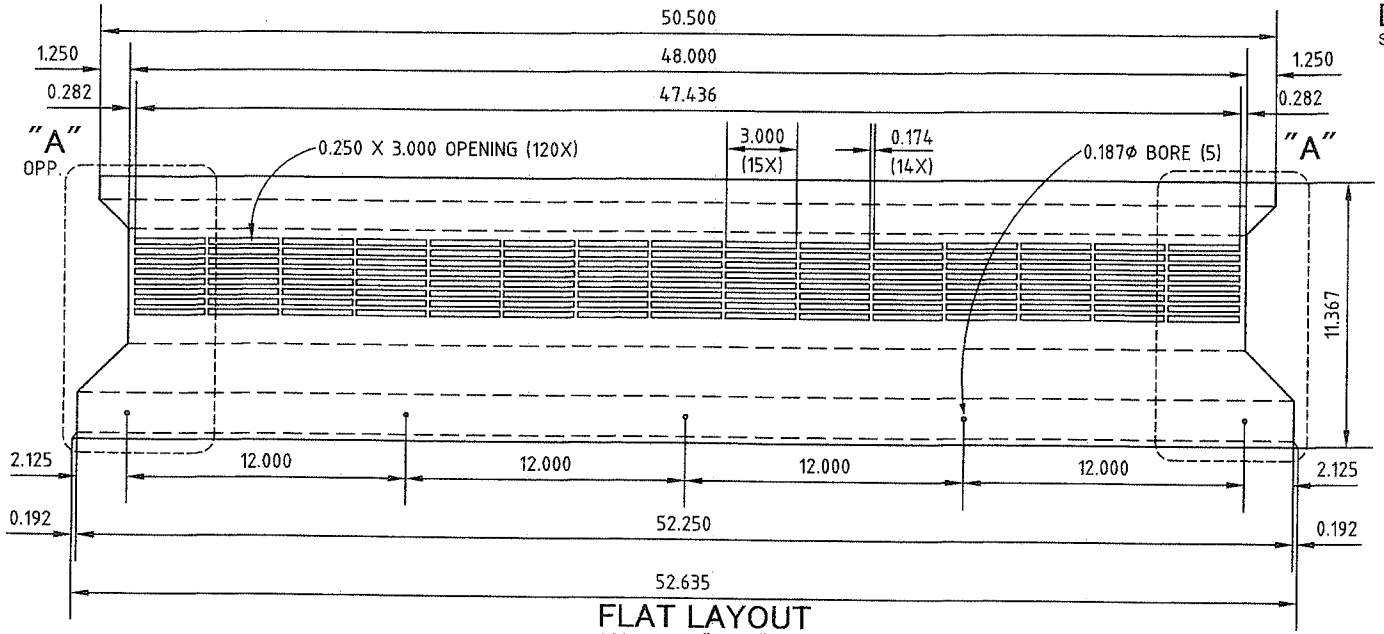
SECTION @ OPENINGS
SCALE : 3" = 1'-0"



SECTION @ SOLID
SCALE : 3" = 1'-0"



DETAIL "A"
SCALE : 3" = 1'-0"



FLAT LAYOUT
SCALE : 1 1/2" = 1'-0"

ORDER NO.:

QUANTITY:

SKYCO SKYLIGHTS

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

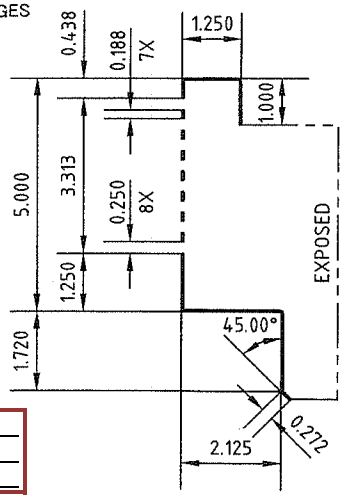
DESCRIPTION: LOUVER BASE - ENDS
MATERIAL: 20 Ga. (0.0396") ASTM A TYPE B
FINISH: G90 GALVANIZED

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

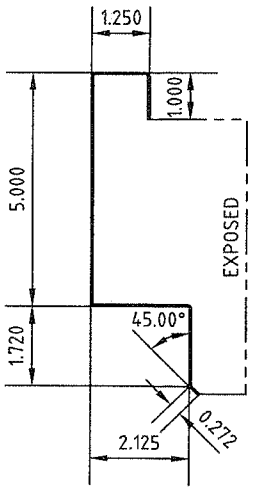
DRAWING NUMBER: SLCM100
DATE: 10/31/14
SHEET: 06 OF: 11

NOTES: (UNLESS OTHERWISE SPECIFIED)
1.) REMOVE ALL BURRS AND SHARP EDGES
2.) UNMARKED ANGLES = 90.00
3.) 0.030 INSIDE BEND RADIUS TYPICAL

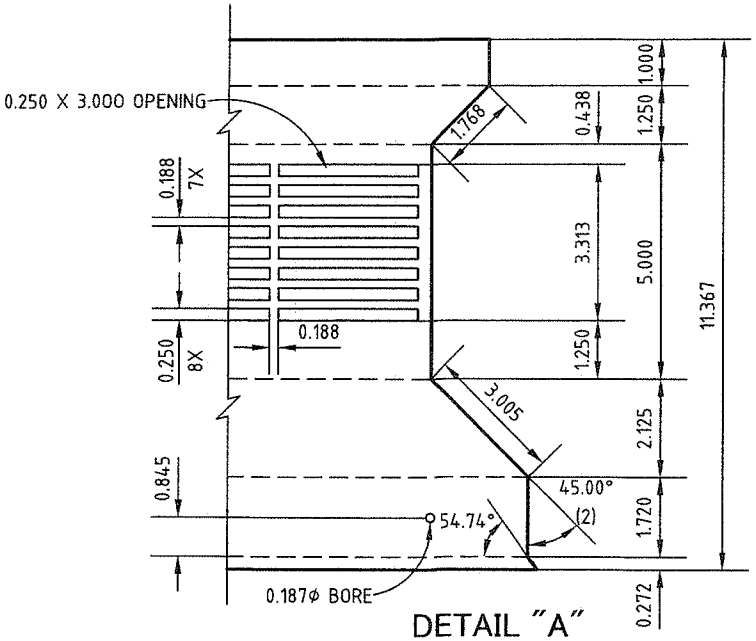
Architectural Testing
Report #: E3508-301-44
Date: 12/18/2014
Verified by:



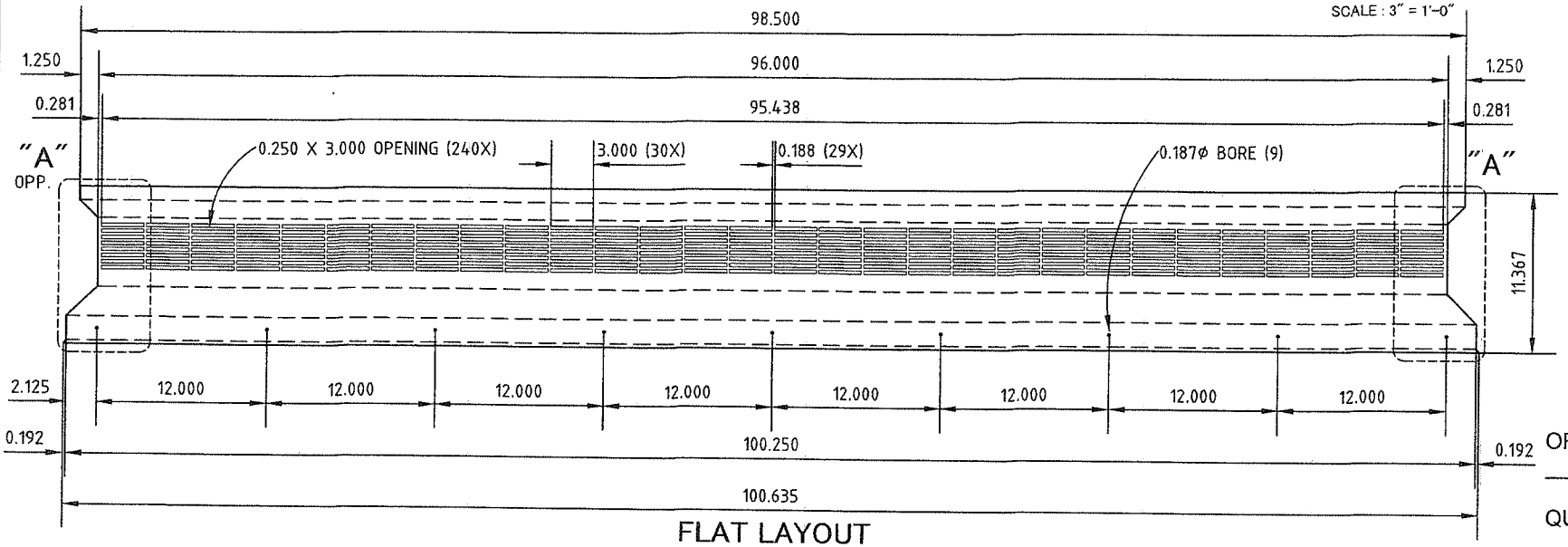
SECTION @ OPENINGS
SCALE : 3" = 1'-0"



SECTION @ SOLID
SCALE : 3" = 1'-0"



DETAIL "A"
SCALE : 3" = 1'-0"



FLAT LAYOUT
SCALE : 1" = 1'-0"

ORDER NO.:

QUANTITY:

SKYCO SKYLIGHTS

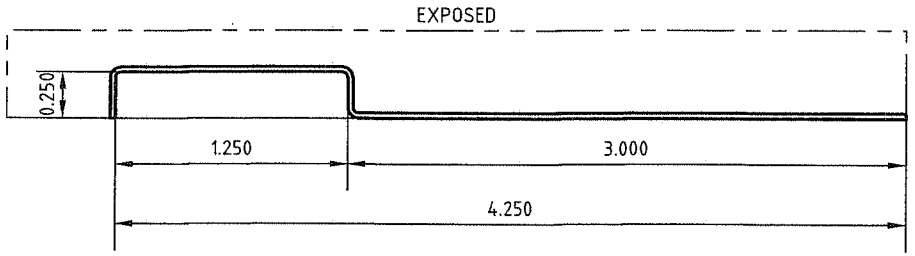
2995 AIRWAY AVENUE, SUITE B
COSTA MESA, CALIFORNIA 92626
Phone (949) 629-4090 · Fax (949) 629-4088

DESCRIPTION : LOUVER BASE – SIDES
MATERIAL : 20 Ga. (0.0396") ASTM A TYPE B
FINISH: G90 GALVANIZED

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

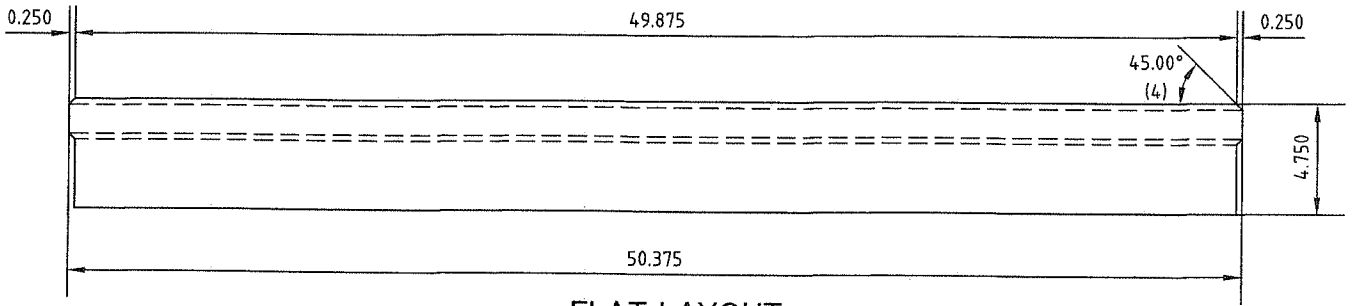
DRAWING NUMBER: SLCM101
DATE : 10/03/14
SHEET: 07 OF: 11

NOTES: (UNLESS OTHERWISE SPECIFIED)
1.) REMOVE ALL BURRS AND SHARP EDGES
2.) UNMARKED ANGLES = 90.00
3.) 0.030 INSIDE BEND RADIUS TYPICAL



BEND SECTION
FULL SCALE

Architectural Testing
Report #: E3508-301-44
Date: 12/18/2014
Verified by:



FLAT LAYOUT
SCALE : 1 1/2" = 1'-0"

ORDER NO.:

QUANTITY:

SKYCO SKYLIGHTS

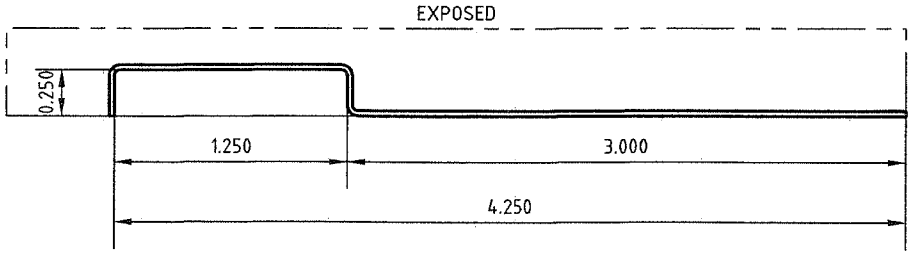
2995 AIRWAY AVENUE, SUITE B
COSTA MESA, CALIFORNIA 92626
Phone (949) 629-4090 Fax (949) 629-4088

DESCRIPTION : RAIN GUARD – ENDS
MATERIAL : 24 Ga. (0.0276") ASTM A TYPE B
FINISH: G90 GALVANIZED

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

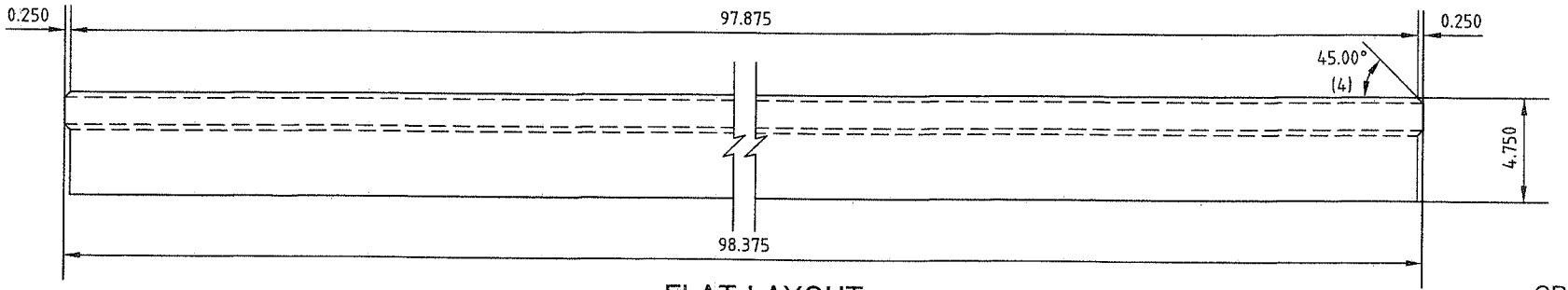
DRAWING NUMBER: SLRG100
DATE : 10/31/14
SHEET: 10 OF: 11

NOTES: (UNLESS OTHERWISE SPECIFIED)
1.) REMOVE ALL BURRS AND SHARP EDGES
2.) UNMARKED ANGLES = 90.00
3.) 0.030 INSIDE BEND RADIUS TYPICAL



BEND SECTION
FULL SCALE

Architectural Testing
Report #: E3508-301-44
Date: 12/18/2014
Verified by:



FLAT LAYOUT
SCALE : 1 1/2" = 1'-0"

ORDER NO.:

QUANTITY:

SKYCO SKYLIGHTS

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

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

DESCRIPTION: RAIN GUARD – SIDES			DRAWING NUMBER: SLRG101
MATERIAL: 24 Ga. (0.0276") ASTM A TYPE B		FINISH: G90 GALVANIZED	
DATE: 10/31/14	SHEET: 11 OF: 11		