

**MIAMI-DADE COUNTY
PERFORMANCE TEST REPORT**

Rendered to:

**WASHOE EQUIPMENT, INC.
dba SUNOPTICS PRISMATIC SKYLIGHTS**

**SERIES/MODEL: Model 800MD, Signature
PRODUCT TYPE: Curb Mount Aluminum Frame Double Dome Fixed Skylight**

This report contains in its entirety:

**Cover Page: 1 page
Report Body: 13 pages
Sketches: 2 pages
Drawings: 5 pages**

**Report No.: 89255.01-301-18
Test Dates: 02/03/09
Through: 02/05/09
Report Date: 02/09/09
Expiration Date: 02/05/19
Miami-Dade County Notification No.: ATICA 09001**

MIAMI-DADE COUNTY PERFORMANCE TEST REPORT

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WASHOE EQUIPMENT, INC.
dba SUNOPTICS PRISMATIC SKYLIGHTS
6201 27th Street
Sacramento, California 95822

Report No.: 89255.01-301-18

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Miami-Dade County Notification No.: ATICA 09001

Project Summary: Architectural Testing, Inc. was contracted by Washoe Equipment, Inc. dba Sunoptics Prismatic Skylights to perform testing per Florida Building Code, Test Protocols for High Velocity Hurricane Zone, Protocols TAS 201-94, TAS 202-94 and TAS 203-94 on three Series/Model 800MD, Signature, curb mount aluminum frame double dome fixed skylights. The samples tested met the performance requirements set forth in the protocols for a ± 60.0 psf *Design Pressure* rating. Test specimen description and results are reported herein. The samples were provided by the client.

Test Procedures: The test specimens were evaluated in accordance with the following:

TAS 201-94, *Impact Test Procedures.*

TAS 202-94, *Criteria for Testing Impact and Non Impact Resistant Building Envelope Components Using Uniform Static Air Pressure Loading.*

TAS 203-94, *Criteria for Testing Products Subject to Cyclic Wind Pressure Loading.*

Drawing Reference: The test specimen drawings have been reviewed and verified by Architectural Testing and are representative of the samples tested.

Test Specimen Description:

Series/Model: 800MD, Signature

Product Type: Curb Mount Aluminum Frame Double Dome Fixed Skylight

Dimensions: Outside of Curb: 1588 mm (62-1/2") wide by 2502 mm (98-1/2") high
Inside of Curb: 1511 mm (59-1/2") wide by 2426 mm (95-1/2") high
Overall Frame Size: 1616 mm (63-5/8") wide by 2530 mm (99-5/8") high

Dome: The interior and exterior domes had a pattern of parallel ridges and valleys arching across the width of the skylight. Seven valleys were continuous across the dome and one valley at each end was interrupted by the flat sloping geometric shape of the dome.

Ridge Spacing: Approximately 7-1/4"
Ridge Height: Approximately 1-1/2"
Valley Width: Approximately 4-1/2"

Dome Height: Exterior Dome: 14" at the valley
15-1/2" at the ridge
Interior Dome: 13" at the valley
14-1/2" at the ridge

Aluminum Retainer: 5' 1-1/8" wide by 8' 1-3/16" high

Overall Area: 39.46 ft²

Finish: Exterior Dome: Clear polycarbonate
Interior Dome: White prismatic 100% impact acrylic
Frame: Mill finish aluminum

Glazing Type: Exterior Dome: 0.185" thick Lexan XL10 polycarbonate
Interior Dome: 0.133" thick white prismatic 100% impact acrylic

Glazing Details: The interior dome was set from the exterior to the aluminum frame onto a bead of silicone sealant. The exterior dome was set from the exterior to the interior dome flange onto a bead of silicone sealant. The domes were held in place with an aluminum retainer with serrations that engage the aluminum frame. The retainer was secured to the aluminum frame with a total of thirty #8 x 5/8" hex head self-drilling steel screws. Eight screws were located 1-1/2" from each corner on the side of the aluminum retainer and twenty-two screws on the face of the retainer 12" on center.

Test Specimen Description: (Continued)

Frame Construction: The aluminum frame corners were mitered and fully welded. An extruded vinyl thermal separator was snap-fit to the frame. The hollow between the separator and frame was filled with a beaded polystyrene foam core. A butt joint sealed with silicone was formed between the short side and long side thermal separators.

Drainage:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
2" wide by 1/4" high crescent shaped slot	4	5" from each corner through exterior frame leg on all four sides

Retainer Construction: The aluminum retainer corners were mitered.

Installation: The skylight was mounted onto a 2 x 6 Douglas Fir No. 2 curb and was attached with #12 x 2" hex washer head steel screws with rubber backed neo washers approximately 7-1/2" from each corner and 12" on center. A 1-7/8" x 1/4" adhesive back foam pad was located between the frame and curb.

Test Results: The following results have been recorded:

Protocol TAS 202-94, Static Air Pressure Tests

Test Unit #1

Design Pressure: ± 60.0 psf

Title of Test	Results							
Air Infiltration								
1.57 psf (25 mph)	0.25 cfm/ft ²							
6.24 psf (50 mph)	0.25 cfm/ft ²							
	Indicator Readings (inch)							
Structural Loads	#1	#2	#3	#4	#5	#6	#7	#8
75% of Design Pressure (+45.0 psf)								
Maximum Deflection	0.05	0.05	0.05	0.07	0.08	0.07	0.07	0.07
Permanent Set	0.02	0.02	0.03	0.03	0.03	0.02	0.02	0.03
Design Pressure (+60.0 psf)								
Maximum Deflection	0.06	0.07	0.07	0.09	0.10	0.09	0.09	0.09
Permanent Set	0.03	0.04	0.03	0.04	0.04	0.03	0.03	0.03
75% of Design Pressure (-45.0 psf)								
Maximum Deflection	0.16	0.16	0.16	0.16	0.35	0.17	0.17	0.18
Permanent Set	0.03	0.03	0.03	0.03	0.00	0.03	0.03	0.03
Design Pressure (-60.0 psf)								
Maximum Deflection	0.24	0.25	0.25	0.25	0.57	0.26	0.26	0.28
Permanent Set	0.05	0.05	0.04	0.00	0.17	0.05	0.05	0.03
Water Infiltration								
15% Positive Design Pressure (+9.0 psf)	No Penetration							
Test Pressure (+180.0 psf)								
Maximum Deflection	0.09	0.09	0.08	1.29	2.03	1.18	1.02	0.80
Permanent Set	0.04	0.03	0.03	0.21	0.35	0.18	0.18	0.10
Test Pressure (-120.0 psf)								
Maximum Deflection	0.15	0.17	0.14	0.59	0.85	0.40	0.63	0.77
Permanent Set	0.05	0.04	0.03	0.07	0.09	0.07	0.02	0.08

Note: See Architectural Testing Sketch #1 for indicator locations.

Test Results: (Continued)

Protocol TAS 201-94, *Impact Test Procedures*

Missile Weight: 9.0 lbs

Muzzle Distance from Test Specimen: 17 ft.

Test Unit #1

Impact #1: Missile Velocity: 50.8 fps

Impact Area: Center of dome

Observations: Broke inner dome

Results: Pass

Impact #2: Missile Velocity: 50.9 fps

Impact Area: Corner of dome

Observations: No damage

Results: Pass

Note: Refer to Architectural Testing Sketch #2 for impact locations.

Test Results: (Continued)

Protocol TAS 203-94, Cyclic Wind Pressure Loading

Test Unit #1

Design Pressure: ±60.0 psf

POSITIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (sec.)	Maximum Deflection at Indicator (inch)							
			#1	#2	#3	#4	#5	#6	#7	#8
12 to 30	3500	1.30	0.04	0.04	0.03	0.20	0.25	0.16	0.18	0.19
0 to 36	300	1.79	0.08	0.12	0.12	0.27	0.33	0.26	0.25	0.22
30 to 48	600	1.69	0.10	0.14	0.14	0.30	0.36	0.32	0.29	0.26
18 to 60	100	1.96	0.11	0.15	0.16	0.32	0.38	0.33	0.30	0.28
			Permanent Set (inch)							
			0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.01

NEGATIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (sec.)	Maximum Deflection at Indicator (inch)							
			#1	#2	#3	#4	#5	#6	#7	#8
18 to 60	50	1.83	0.30	0.26	0.25	0.36	0.58	0.38	0.41	0.59
30 to 48	1050	1.20	0.17	0.15	0.15	0.29	0.48	0.29	0.35	0.47
0 to 36	50	2.10	0.12	0.11	0.11	0.26	0.42	0.28	0.31	0.39
12 to 30	3350	1.30	0.11	0.11	0.12	0.24	0.39	0.25	0.30	0.36
			Permanent Set (inch)							
			0.05	0.07	0.03	0.38	0.27	0.10	0.21	0.20

Result: Pass

Note: Refer to Architectural Testing Sketch #1 for indicator locations.

Test Results: (Continued)

Protocol TAS 201-94, *Impact Test Procedures*

Missile Weight: 9.0 lbs

Muzzle Distance from Test Specimen: 17 ft.

Test Unit #2

Impact #1: Missile Velocity: 49.5 fps

Impact Area: Corner of dome

Observations: Broke inner dome

Results: Pass

Impact #2: Missile Velocity: 49.7 fps

Impact Area: Center of dome

Observations: No damage

Results: Pass

Note: Refer to Architectural Testing Sketch #2 for impact locations.

Test Results: (Continued)

Protocol TAS 203-94, Cyclic Wind Pressure Loading

Test Unit #2

Design Pressure: ±60.0 psf

POSITIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (sec.)	Maximum Deflection at Indicator (inch)							
			#1	#2	#3	#4	#5	#6	#7	#8
12 to 30	3500	1.20	0.02	0.03	0.02	0.09	0.11	0.10	0.11	0.05
0 to 36	300	1.80	0.03	0.04	0.02	0.11	0.11	0.12	0.16	0.05
30 to 48	600	1.84	0.04	0.04	0.03	0.11	0.15	0.16	0.19	0.05
18 to 60	100	2.14	0.04	0.04	0.03	0.16	0.27	0.21	0.25	0.05
			Permanent Set (inch)							
			0.02	0.02	0.01	0.02	0.03	0.01	0.05	0.04

NEGATIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (sec.)	Maximum Deflection at Indicator (inch)							
			#1	#2	#3	#4	#5	#6	#7	#8
18 to 60	50	2.22	0.06	0.08	0.06	0.17	0.43	0.23	0.34	0.16
30 to 48	1050	1.57	0.07	0.08	0.06	0.18	0.43	0.23	0.34	0.17
0 to 36	50	2.60	0.07	0.08	0.06	0.18	0.43	0.23	0.34	0.17
12 to 30	3350	1.21	0.06	0.06	0.04	0.13	0.33	0.18	0.26	0.10
			Permanent Set (inch)							
			0.03	0.01	0.01	0.10	0.23	0.12	0.10	0.07

Result: Pass

Note: Refer to Architectural Testing Sketch #1 for indicator locations.

Test Results: (Continued)

Protocol TAS 201-94, *Impact Test Procedures*

Missile Weight: 9.0 lbs

Muzzle Distance from Test Specimen: 17 ft.

Test Unit #1

Impact #1: Missile Velocity: 49.8 fps

Impact Area: Center of dome

Observations: Broke inner dome

Results: Pass

Impact #2: Missile Velocity: 50.2 fps

Impact Area: Corner of dome

Observations: No damage

Results: Pass

Note: Refer to Architectural Testing Sketch #2 for impact locations.

Test Results: (Continued)

Protocol TAS 203-94, Cyclic Wind Pressure Loading

Test Unit #1

Design Pressure: ±60.0 psf

POSITIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (sec.)	Maximum Deflection at Indicator (inch)							
			#1	#2	#3	#4	#5	#6	#7	#8
12 to 30	3500	1.10	0.02	0.04	0.03	0.13	0.17	0.14	0.17	0.12
0 to 36	300	1.67	0.04	0.06	0.06	0.14	0.18	0.14	0.17	0.14
30 to 48	600	2.12	0.06	0.09	0.08	0.18	0.23	0.18	0.23	0.17
18 to 60	100	1.70	0.07	0.09	0.09	0.20	0.26	0.20	0.25	0.18
			Permanent Set (inch)							
			0.01	0.02	0.01	0.04	0.10	0.09	0.06	0.07

NEGATIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (sec.)	Maximum Deflection at Indicator (inch)							
			#1	#2	#3	#4	#5	#6	#7	#8
18 to 60	50	1.63	0.11	0.15	0.15	0.18	0.30	0.20	0.24	0.28
30 to 48	1050	1.10	0.10	0.13	0.13	0.16	0.28	0.19	0.21	0.25
0 to 36	50	1.98	0.09	0.13	0.12	0.15	0.26	0.17	0.19	0.21
12 to 30	3350	1.21	0.08	0.11	0.10	0.14	0.24	0.17	0.16	0.20
			Permanent Set (inch)							
			0.04	0.06	0.05	0.11	0.17	0.14	0.07	0.11

Result: Pass

Note: Refer to Architectural Testing Sketch #1 for indicator locations.

Test Equipment:

Cannon: Steel pipe barrel utilizing compressed air to propel the missile

Missile: 2 x 4 Southern Pine

Timing Device: Electronic Beam Type

Cycling Mechanism: Computer controlled centrifugal blower with electronic pressure measuring device

Deflection Measuring Device: Linear transducers

Laboratory Compliance Statements: The following are provided as required by the protocols for the testing reported herein.

Upon completion of testing, specimens tested for TAS 201-94 met the requirements of Section 1626 of the Florida Building Code, Building (2004).

Upon completion of testing, specimens tested for TAS 202-94 met the requirements of Section 1620 of the Florida Building Code, Building (2004).

Upon completion of testing, specimens tested for TAS 203-94 met the requirements of Section 1626 of the Florida Building Code, Building (2004).

Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.

Testing was conducted at the Architectural Testing, Inc. laboratory located in Fresno, California.

List of Official Observers:

<u>Name</u>	<u>Company</u>
Jim Blomberg	Washoe Equipment, Inc.
Derek Spencer	Architectural Testing, Inc.
Joshua Royce, P.E.	Architectural Testing, Inc.
Tyler Westerling, P.E.	Architectural Testing, Inc.

Detailed drawings, data sheets, representative samples of test specimens, a copy of this report, or other pertinent project documentation will be retained by Architectural Testing, Inc. for a period of ten years from the original test date. At the end of this retention period, such materials shall be discarded without notice and the service life of this report will expire.

Results obtained are tested values and were secured by using the designated test methods. 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 specimens tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC.

Tyler Westerling, P.E.
Project Engineer

Joshua M. Royce, P.E.
Senior Project Engineer

TW:cmd

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

Appendix-A: Sketches (2)

Appendix-B: Drawings (5)

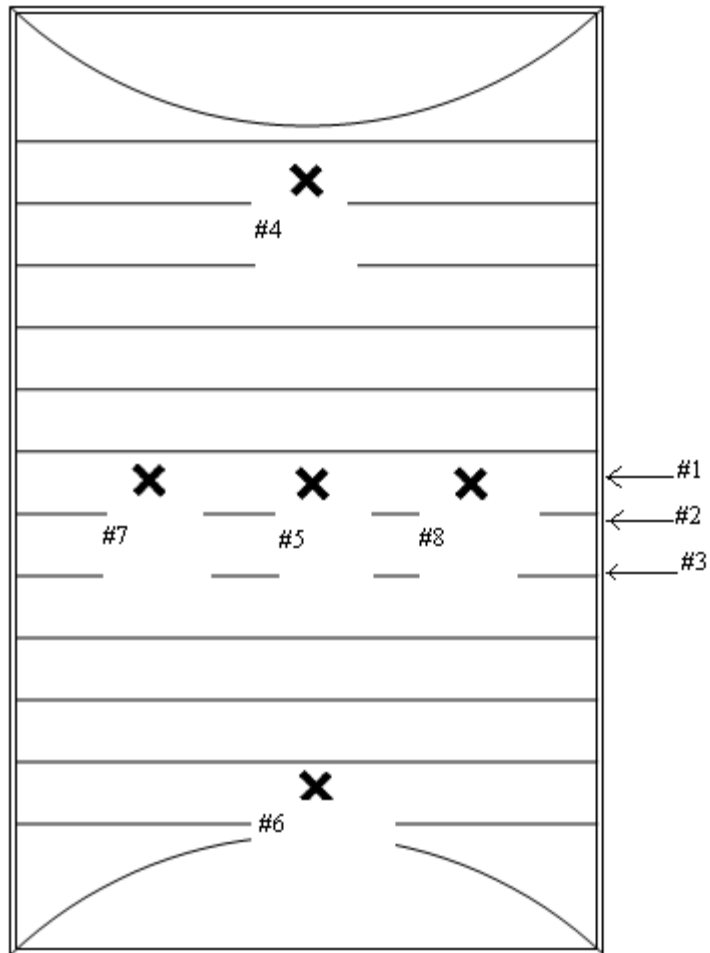
Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	02/09/09	N/A	Original report issue

Appendix A

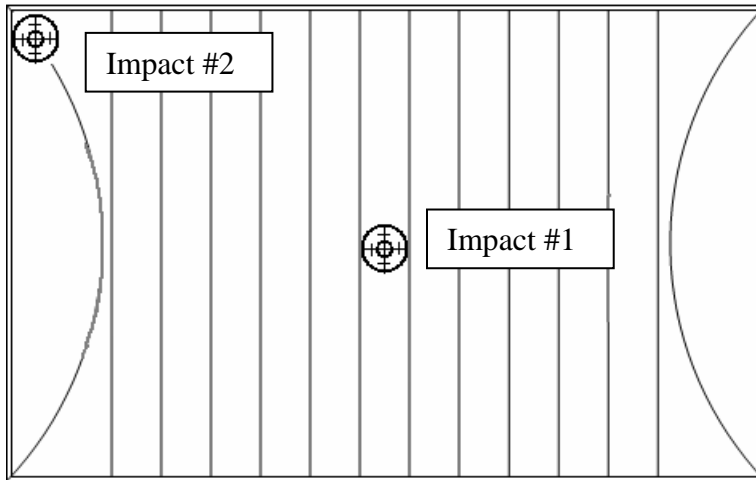
Sketches

Sketch #1: Linear Transducer Locations

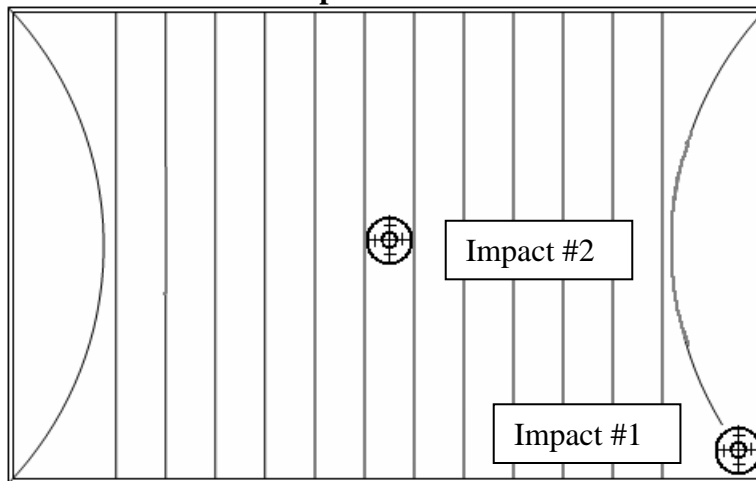


X Indicator Locations
(Normal to Curved Surface)

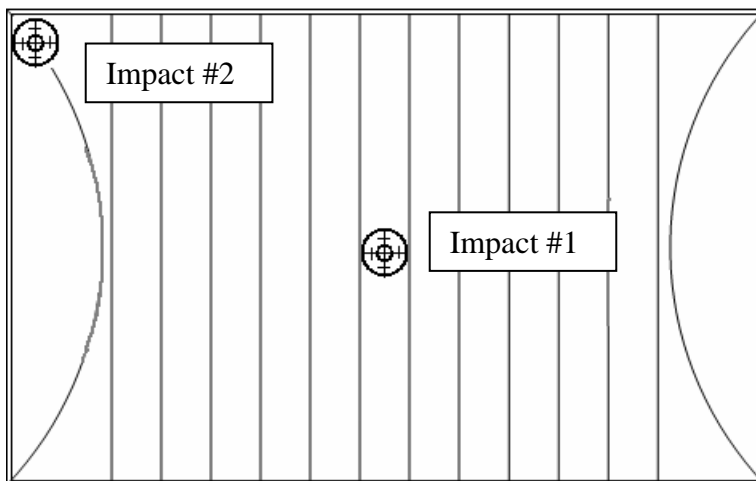
Sketch #2: Impact Locations



Specimen #1



Specimen #2



Specimen #3

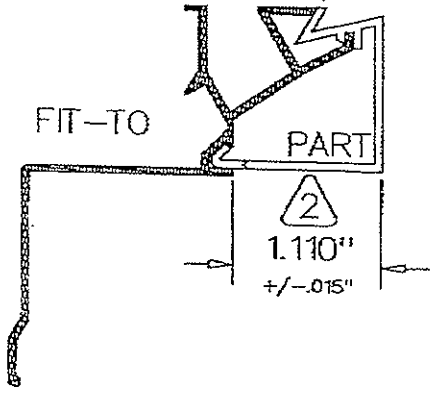
Appendix B

Drawings

NOTES:

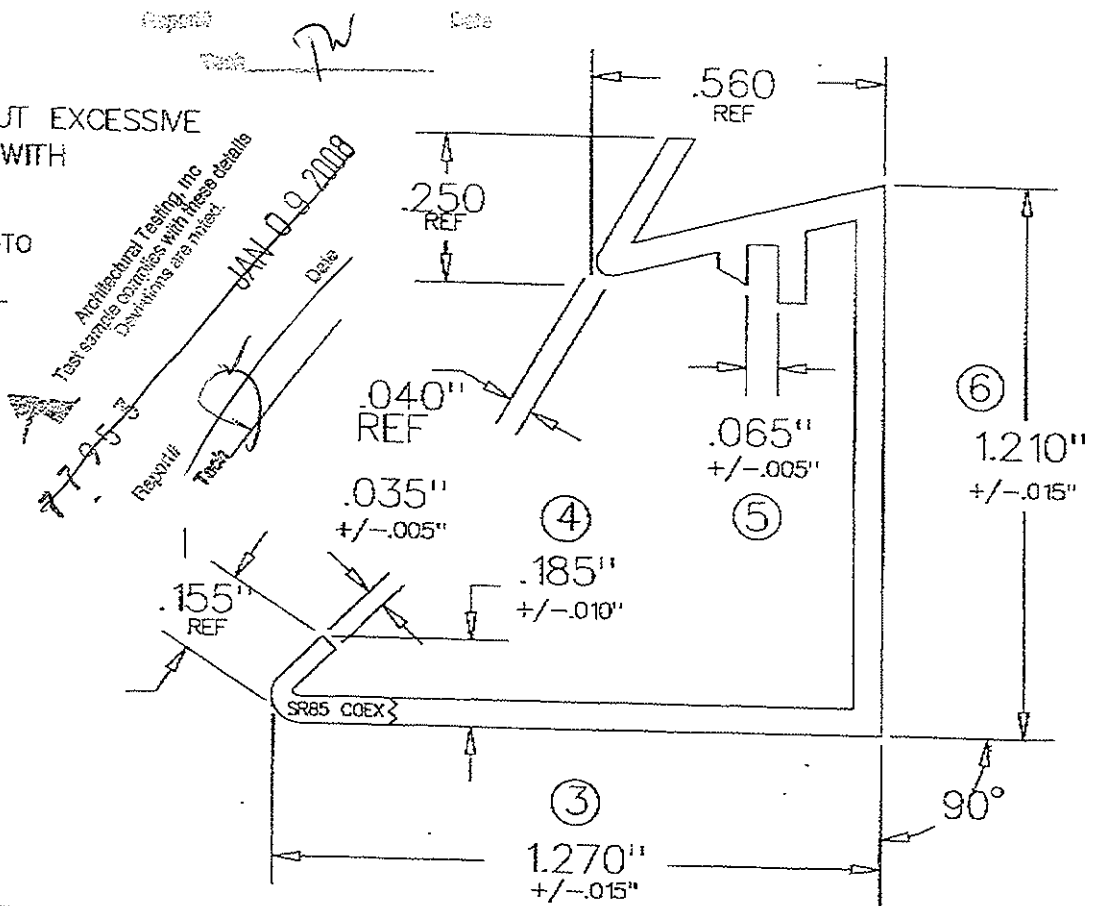
- ① 1) 55 GRAMS/FT +/-2.8 G
 - 2) NO WAVY OR BUMPY EDGES
 - 3) NO TWIST
- PART MUST SNAP IN FIT-TO WITHOUT EXCESSIVE PRESSURE AND CANNOT PULL OFF WITH THUMB PRESSURE FROM DIM ②
- PART MUST BE FLUSH OR MAY EXCEED FIT-TO BY .040 MAX.

PART MUST HAVE CONTACT W/ FIT-TO OR NO MORE THAN .020 GAP



check length as cooled
end cuts must be square

89208 FEB 04 2000



Dec. 18, 2006 - 9:45AM FILTRONA EXTRUSION No. 6608 P. 2

CUT LENGTH	TYP. WALL
+/- .065"	.065" +/- .005
REEL LENGTH	BOW TOLERANCE
	1/32" PER FOOT
DEPT. HEAD	ENGINEERING MANAGER
	DATE

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J	ADDED GRAM TOLERANCE	8/26/02 AF
I	CHANGED TO CUST. APPROVED SAMPLE	02/14/02 DF
H	PART REDESIGN	02/06/02 DB-
G	ADDED DART IMPACT TEST	12/06/01 DF
F	REVISED NOTES	11/20/01 DB-
E	REDIMENSIONED PER PRODUCTION MANAGER REQUEST	05/04/01 DB-
D	CHANGED DIM 18 FROM REFERENCE	03/16/01 DB-
C	REVISED NOTE	2-1-00 NP
B	CHANGED REF. DIMS	1-18-99 df
A	CHANGED PART TO MATCH NEW FIT-TO	3-14-97
REV	DESCRIPTION	DATE

FILTRONA EXTRUSION

TACOMA PLANT
3110 70th Ave. East
Tacoma, Washington
98424
Phone: (253)865-8000
Fax: (253)865-8000

GE NUMBER: 7215 PART NAME: THERMAL COVER

MATERIAL: RPVC/FPVC DATE: 04/13/95 DWN BY: DOUG LAST REV: 8/26/02 AF

REVISIONS

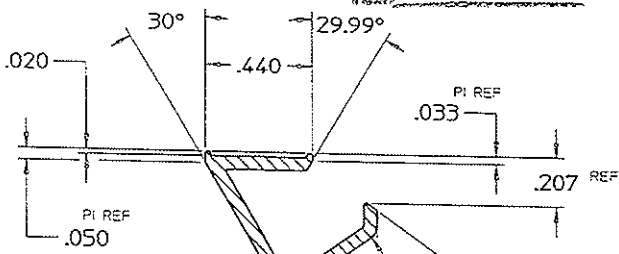
89255

FEB 04 2009

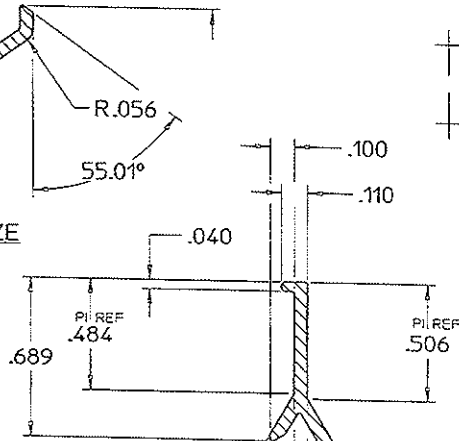
Revised

TW

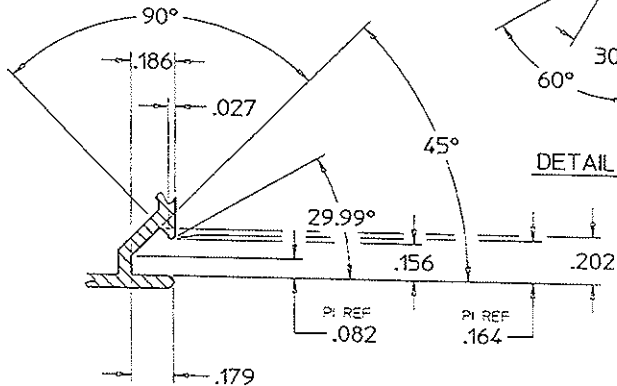
Date



DETAIL "B" 2 X SIZE



DETAIL "C" 2 X SIZE



DETAIL "A" 2 X SIZE

sapa:
7933 NE 21st Ave
Portland, OR 97211-0263
(800) 547-0790

DIE NUMBER
B-38807

DRAWING NUMBER

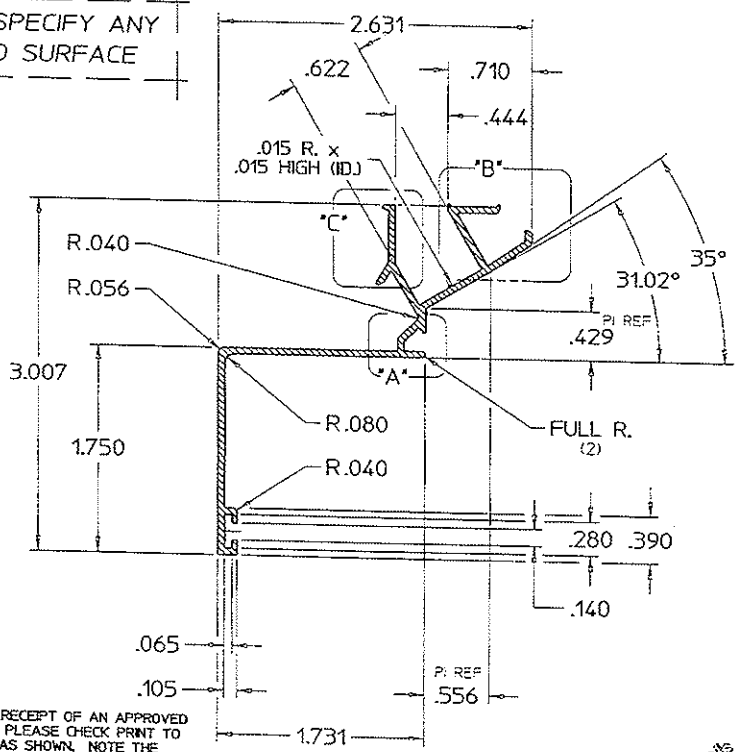
* DENOTES CRITICAL DIMENSION OR TOLERANCE

SUNOPTICS SKYLIGHTS	
CUSTOMER NAME	
PART NAME	FRAME
PART NO	DATE 1-7-2005
ALUMINUM ASSOCIATION STANDARD TOLERANCES APPLY U.S.	

DIE NUMBER	B-38807
DRAWING NUMBER	
LB/FT	.503
AREA	.419
PERI.	15.095
ADJ PERI	----
CC/FAC	3.9 30
TYPE	SOLID
TREVOL	----
DRN BY	GAB
DIE SIZE	
FD FLT	
BACKER	
BOLSTER	
SUB BOL	
HOLDS	
BILR/R	

ID = Sapa, Inc. I.D. MARK: .015 R. x .015 DEEP U.O.S. TYP WALL U.O.S.: .055 ±.010 TYP RAD U.O.S.: .010

PLEASE SPECIFY ANY EXPOSED SURFACE



ACTUAL SIZE

DIE CONSTRUCTION WILL NOT BEGIN PRIOR TO RECEIPT OF AN APPROVED DRAWING AND CONFIRMING PURCHASE ORDER. PLEASE CHECK PRINT TO INSURE THAT ALL DIMENSIONS ARE CORRECT AS SHOWN. NOTE THE EXPOSED SURFACE AND IDENTIFICATION MARK TYPE AND LOCATION (I D). ANY CHANGES MADE TO THIS PRINT WILL REQUIRE IT TO BE RE-SUBMITTED FOR YOUR APPROVAL. ELECTRONICALLY CHANGING, OR RENDERING ANY DIMENSION UNREADABLE WILL VOID THAT CHANGE TO THE DESIGN. OMITTED DIMENSIONS WILL BE ADDED AS A REF. DIMENSION. SAPA, INC. WILL EXTRUDE AND CHECK TO THIS PRINT ONLY. HAVING READ THE ABOVE STATEMENT I HEREBY APPROVE THIS DESIGN AS SUBMITTED AND AGREE TO SAPA, INC'S LIMITATIONS OF LIABILITIES AND WARRANTIES STATED ELSEWHERE ON THIS PRINT.

APPROVED BY _____ DATE _____

7-7-955
Reports: Tech
Architectural Fastings, Inc
Test samples completed with these details
Deviations are noted.
JAN 09 2008
Date

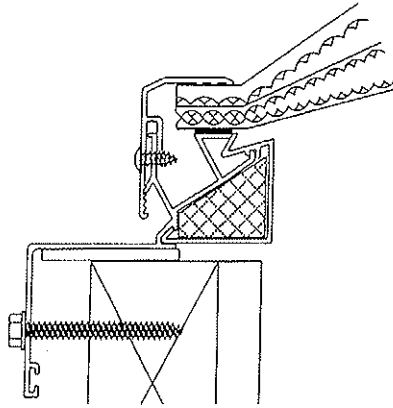
REV

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SKYLIGHT INSTALLATION INSTRUCTIONS

1. Set skylight over prepared, flashed curbs, making sure skylight is square and evenly spaced on all four sides.
2. Mount skylight to the curb with plated, galvanized or aluminum screws, Using 1 fastener for each hole provided. Drive screws just snug to the skylight flange. Check skylight for squareness and readjust screws as necessary.

NOTE: *Caulking the top of the curb for an air seal is not required with Sunoptics skylights. All double and triple glazed units are supplied with a 1 1/2 inch by 1/4 inch air seal tape premounted on the underside of the skylight.*

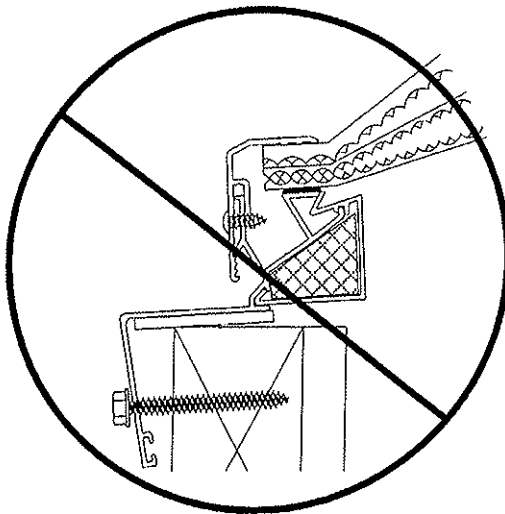


CORRECT MOUNTING

800MD frame shown. Installation instructions are similar for all Sunoptics curb mounted skylights.

NOTE:

When securing the skylight to the curb, run screws just snug to the skylight flange. Overtightening will distort the flange. This in turn may create forces which could crack the skylight lenses, or force it to pull out. This may void the warranty.



INCORRECT MOUNTING

Architectural Testing, Inc.
Test sample complies with these details

89255

FEB 04 2009

Report#

Test#

Date

DW

Architectural Testing, Inc.
Test sample complies with these details
Deviations are noted.

77953

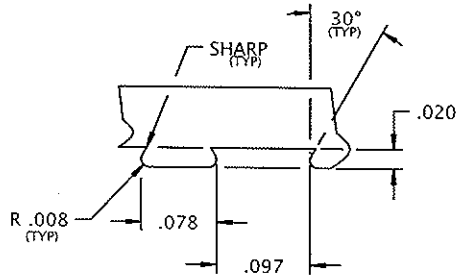
Report#

Test#

JAN 09 2008

Date

Received By _____ Date _____



NOTES:
 1. ALUMINUM ASSOCIATION STANDARD TOLERANCES
 APPLY UNLESS OTHERWISE SPECIFIED

18327
 DIE NUMBER
 B-23757
 DRAWING NUMBER

Sapa Anodizing Inc.
 7933 NE 21st Ave
 Portland, OR 97211-0263
 (800) 547-0790

SUNOPTICS SKYLIGHTS

CUSTOMER NAME B
 PART NAME CLIP
 PART NO
 DATE 3-12-97

18327

DIE NUMBER
 B-23757

DRAWING NUMBER

LB/FT .232

AREA .193

PERI 6.558

ADJ PERI

CC/FAC 1.9 28

TYPE S-HOL II

TIE VOL

DRN BY JJG

DIE SIZE 9 X 1-1/2

FD FLT

BACKER S785

BOLSTER 310

SUB BOL 45

HOLES 4

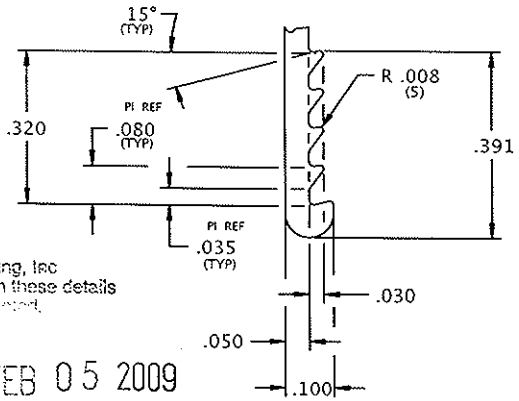
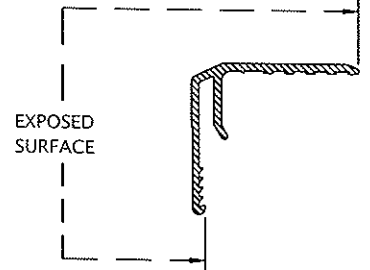
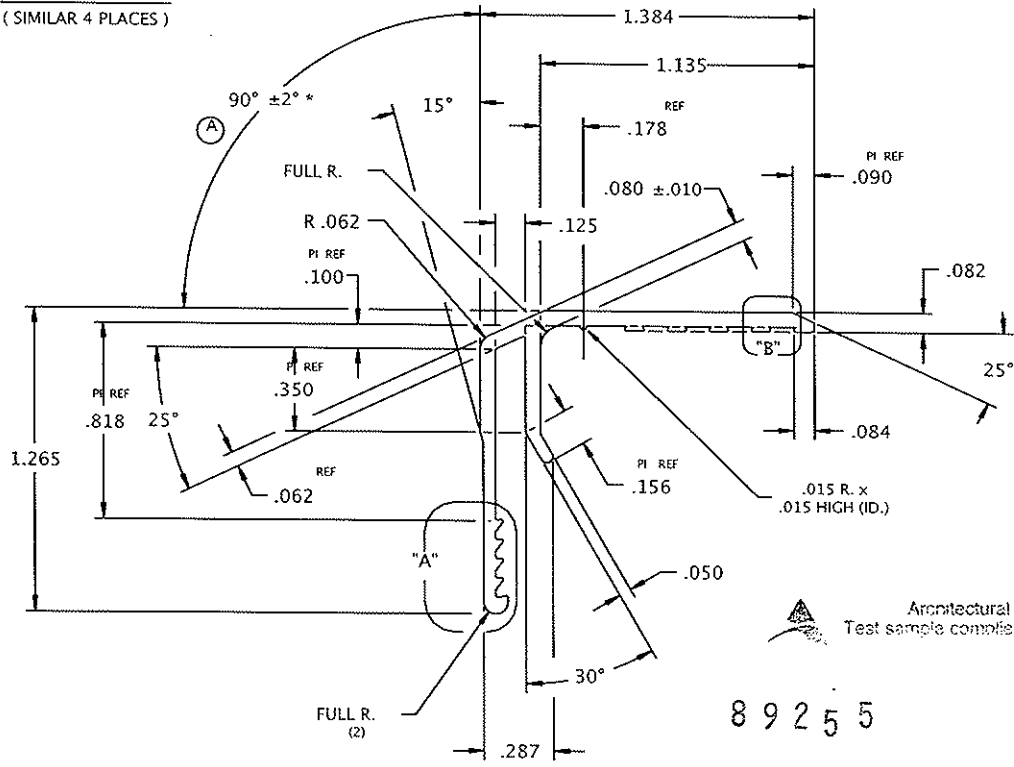
BIL:R/R 7" 54

ID = Sapa Anodizing Inc. I.D. MARK: .015 R. x .015 DEEP UNLESS OTHERWISE SPECIFIED / * DENOTES CRITICAL TOLERANCE

TYP WALL U.O.S.: .062 ± .010

TYP RAD. U.O.S.:

DETAIL "B" 8x
 (SIMILAR 4 PLACES)



Architectural Testing, Inc
 Test sample complies with these details

89255

FEB 05 2009

Report#

Date

2 X SIZE

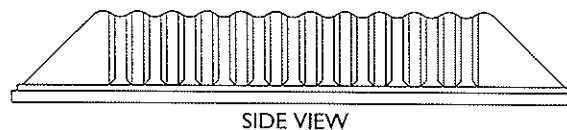
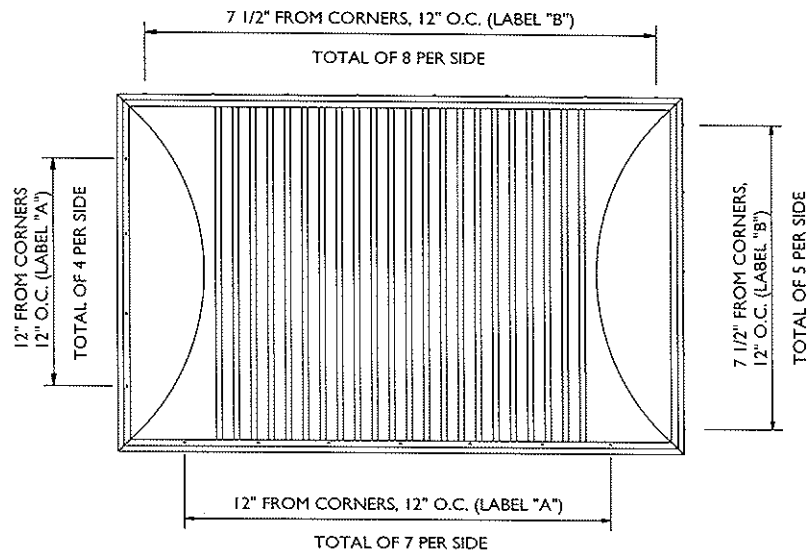
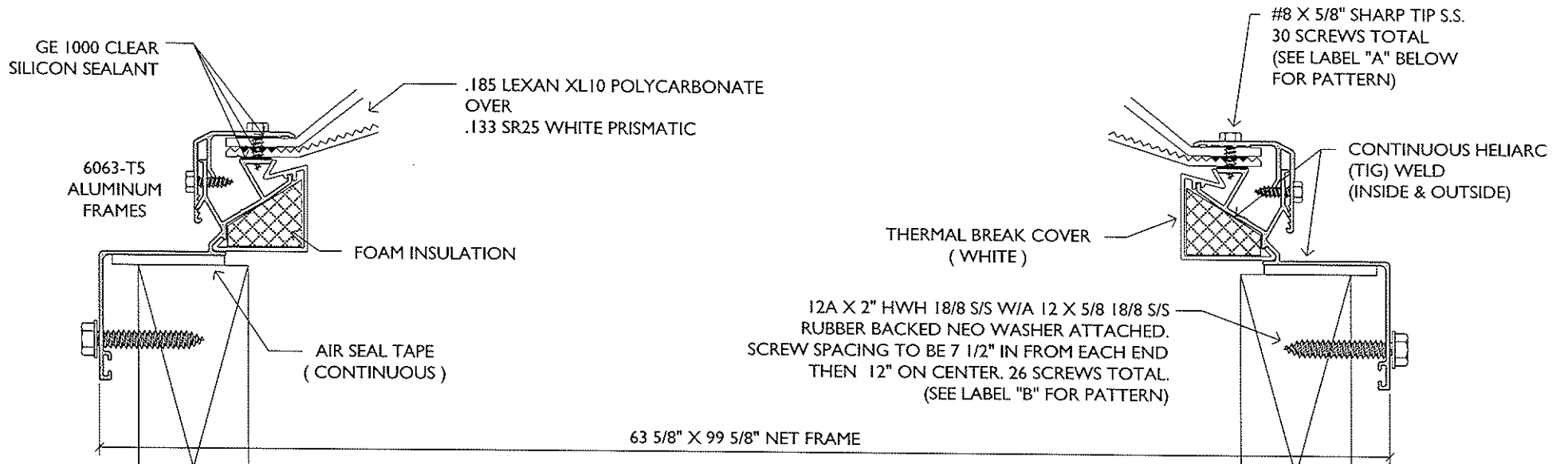
Tech

TW

DETAIL "A" 4x

REV A ADDED DIM AND TOLS FOR CLARITY: 7-21-98 WSC

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Architectural Testing, Inc
 Test complete with these details

89255

FEB 05 2009

Report#

Tech

Date

5080 MODEL 800MD FIXED
 DOUBLE GLAZED
 SIGNATURE SKYLIGHT
 (FOR +60 / -60 DESIGN LEVELS)