



NATIONAL CERTIFIED TESTING LABORATORIES

FIVE LEIGH DRIVE • YORK, PENNSYLVANIA 17406 • TELEPHONE (717) 846-1200
FAX (717) 767-4100
www.nctlinc.com

ACURLITE STRUCTURAL SKYLIGHTS NFRC THERMAL TEST SUMMARY REPORT

Report No: NCTL-110-14353-1S
Expiration Date: 11/16/15

Test Specimen		<u>NFRC Code</u>
Manufacturer:	Acurlite Structural Skylights	
Series/Model:	“Skylight”	
Window Type:	Skylight Sloped Glazing	SKSL
Frame Composition:	Thermally Improved	AU
Sash/Vent/Panel Composition:	Not Applicable	
Thermal Break Mat'l:	Silicone	O
Overall Size:	1130.3 mm (44-1/2”) wide by 1136.7 mm (44-3/4”) high (Non-Standard Size)	
 Glazing Description		
	1.26” Overall w/Low E and Argon	
No. of Glazing Layers (including films):	2	2
Primary Glazing:	Double Glazed	DG
Spacer Type:	Steel Reinforced Butyl	S5-D
Gap Fill 1:	Argon/Air (90% Single Probe)	ARG
Gap Fill 2:	Not Applicable	
Glass/Film Thicknesses (ext to int):	0.220”, 0.480”	
Air Gap 1:	0.560”	
Air Gap 2:	Not Applicable	
Secondary Glazing:	Not Applicable	
Low Emissivity Coatings:		
Surface 2:	0.018	

Procedure: Standardized Thermal Transmittance (U_{st}) was determined using the NFRC 102-2010 procedure with a temperature of $69.8 \pm 0.5^\circ\text{F}$ on the room side of the specimen and $-0.4 \pm 0.5^\circ\text{F}$ on the weather side of specimen. The net air leakage across the test specimen was 0.0 cfm.

Test Results: Results of the test period 0256-0456 on 11/16/11 using the Equivalent CTS Method:
Thermal transmittance at test conditions (U_s): 0.55 BTU/hr/ft²/°F
Standardized thermal transmittance of test specimen (U_{st}): 0.51 BTU/hr/ft²/°F

Reference should be made to Thermal Performance Test Report Number NCTL-110-14353-1 for complete specimen description and test data.

NATIONAL CERTIFIED TESTING LABORATORIES


DIGITAL SIGNATURE

STEVEN H. COBLE
Simulator In Responsible Charge



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THERMAL PERFORMANCE TEST REPORT

Report No: NCTL-110-14353-1
Test Date: 11/16/11
Report Date: 11/18/11
Expiration Date: 11/16/15

Client: Acurlite Structural Skylights
1015 North Vine St. P.O. Box 5
Berwick, PA 18603

Test Specimen: Acurlite Structural Skylights' Series "Skylight" Aluminum Sloped Skylight with Low E and Argon.

Test Method: NFRC 102-2010 "Procedure for Measuring the Steady-State Thermal Transmittance of Fenestration Systems" (2010 edition)".

TEST SPECIMEN DESCRIPTION

MODEL/TYPE: "Skylight"
CONFIGURATION: Aluminum Sloped Skylight
FRAME SIZE: 1130.3 mm (44-1/2") wide by 1136.7 mm (44-3/4") high (Non-Standard Size)
FIXED LITE VIEWING AREAS: 470 mm (18-1/2") wide by 470 mm (18-1/2") high
FRAME TYPE: Extruded aluminum with silicone thermal breaks
JOINT CONSTRUCTION:
FRAME: Horizontal members fastened with (2) screws at each end to the vertical members
GLAZING COMPONENTS:
OVERALL: 32 mm (1.26") nominal
GLASS THICKNESS: (1) Lite of 6 mm (0.220") nominal annealed exterior and (1) lite laminated interior
COATING: A PPG "Solarban 70" sputter-type low emissivity coating (e=0.018 per client) was applied to glazing surface no. 2
LAMINATED GLASS: (2) Lites of 6 mm (0.220") nominal heat strengthened 1.524 mm (0.060") PVB interlayer
SPACER TYPE/SIZE: Steel-air reinforced butyl (S5-D) 14.2 mm (0.360")
FILL: Argon - 90% single probe per client
GLAZING SYSTEM: **Vertical**
Exterior pressure plate with (6) evenly spaced screws and gasket back-bedding
Horizontal
Exterior glazed with contracted silicone sealant and gasket back-bedding

WEATHERSTRIP:	No weatherseals employed
OPERATING HARDWARE:	None employed
AUXILIARY:	
TYPE:	Beauty cover
LOCATION:	Snap-fitted at the pressure plates
TYPE:	Nail fin fastened to the frame with (5) evenly spaced screws and (3) pop rivets
LOCATION:	Jamb
TYPE:	Nail fin fastened to the frame with (3) evenly spaced screws
LOCATION:	Head and sill
REINFORCEMENT:	No reinforcement employed
WEEP HOLES:	No apparent weeps employed
INTERIOR & EXTERIOR FINISH:	Aluminum
SEALANT:	No apparent sealant

SPECIMEN PREPARATION PRIOR TO TEST

The test specimen was pre-conditioned at ambient laboratory conditions prior to the test. The surround panel-to-specimen interfaces were sealed with a non-reflective tape. The specimen was sealed on the interior with a caulk sealant resulting in a measured net air leakage of 0.0 cfm per square foot.

TEST PARAMETERS

Tests to determine the Standardized Thermal Transmittance (U_s) of the specimen were performed in the guarded hot box apparatus located at the York, PA facility. The most recent calibration of the hot box apparatus was in February 16, 2011. The thermal performance evaluations were completed in accordance with the NFRC 102 procedure using a dynamic wind perpendicular to the specimen on the weather side and simulated natural convection on the room side. A zero static pressure differential ($0.00" \pm 0.04" \text{ H}_2\text{O}$) was maintained across the specimen during the test by pressurizing the metering box on the room side. Data was collected over two successive 2 hour periods after 4 hours of steady state conditions as defined in section 6.1.2 of the NFRC 102 procedure were achieved. The test was considered completed when the data of the successive 2 hour periods also satisfied the criteria defined in section 6.1.2 of the NFRC 102 procedure.

GLASS THICKNESS AND GLAZING DEFLECTION:

	<u>Glass Thicknesses</u>	<u>Glazing Deflection Before</u> <u>Test</u>	<u>Glazing Deflection After</u> <u>Test</u>
Fixed Lite – Top Left	0.220", 0.480"	0.02"	0.05"
Fixed Lite – Top Right	0.220", 0.480"	0.03"	0.05"
Fixed Lite – Bottom Left	0.220", 0.480"	0.02"	0.04"
Fixed Lite – Bottom Right	0.220", 0.480"	0.03"	0.04"

PROJECTED FRAME DIMENSIONS OF MEMBERS:

Member:	Head	Left Jamb	Right Jamb	Sill
Dimension:	2.5"	2.5"	2.5"	2.5"

TEST DURATION:

The test chamber environmental systems were initiated at 1137 on 11/16/11. The test conditions were considered stable for two consecutive two hour test periods from 0056-0256 and 0256-0456 on 11/17/11. The thermal performance test results were derived from the 0256-0456 test period.

Areas:

Test Specimen Projected Area (A_s):	13.83	ft ²
Test Specimen Interior Exposed (Wetted) Surface Area (A_{int}):	12.82	ft ²
Test Specimen Exterior Exposed (Wetted) Surface Area (A_{ext}):	10.91	ft ²
Metering Box Opening Area (A_{mb}):	54.39	ft ²
Metering Box Baffle Area (A_{b1}):	46.44	ft ²
Surround Panel Interior Exposed Area (A_{sp}):	28.48	ft ²
Exposed Area of Mods to Surround Panel Opening:	12.08	ft ²

Test Conditions:

Average Room Side Air Temperature:	69.8	°F
Average Weather Side Air Temperature:	-0.1	°F
Average Guard Box Air Temperature:	72.0	°F
Average Warm Side Surround Panel Temperature:	67.6	°F
Average Cold Side Surround Panel Temperature:	0.3	°F
Metering Box Average Relative Humidity:	12	%
Measured Weather Side Wind Velocity:	14.3	mph
Static Pressure Difference Across Specimen (assumed):	0.0	psf

Heat Flows:

Heat Input Rate to Metering Box (Q_{total}):	655.6	BTU/hr
Surround Panel Heat Flow (Q_{sp}):	89.2	BTU/hr
Surround Panel Thickness:	5.375	Inches
Surround Panel Conductance:	0.04659	BTU/hr/ft ² /°F
Metering Box Heat Flow (Q_{mb}):	-21.7	BTU/hr
Flanking Loss Heat Flow (Q_{fl}):	37.7	BTU/hr
Net Test Specimen Heat Flow (Q_s):	535.0	BTU/hr
EMF vs Heat Flow Equation:	$y = -8018.4 * EMF + 5.6157$	

Test Results & Calculated Test Data:

Emittance of Glass (e_1):	0.84
Warm Side Baffle Emittance (e_{b1}):	0.96
Equivalent Room Side Surface Temperature:	45.5 °F
Equivalent Weather Side Surface Temperature:	7.2 °F
Room Side Baffle Surface Temperature:	71.3 °F
Measured Room Side Surface Conductance (h_h):	1.59 BTU/hr/ft ² /°F
Measured Weather Side Surface Conductance (h_c):	5.29 BTU/hr/ft ² /°F
Test Specimen Thermal Conductance (C_s):	1.01 BTU/hr/ft ² /°F
Convection Coefficient (K):	0.346
Radiative Test Specimen Heat Flow (Q_{r1}):	276.9 BTU/hr
Convective Test Specimen Heat Flow (Q_{c1}):	258.1 BTU/hr

Test Results & Calculated Test Data: (continued)

Radiative Heat Flux of Test Specimen (q_{r1}):	20.02	BTU/hr/ft ²
Convective Heat Flux of Test Specimen (q_{c1}):	18.66	BTU/hr/ft ²
Standardized Room Side Surface Conductance (h_{STh}):	1.28	BTU/hr/ft ² /°F
Standardized Weather Side Surface Conductance (h_{STc}):	5.28	BTU/hr/ft ² /°F
Test Specimen Thermal Transmittance (U_s):	0.55	BTU/hr/ft²/°F
Test Specimen Standardized Thermal Transmittance (U_{ST}):	0.51	BTU/hr/ft²/°F

This test method does not include procedures to determine the heat flow due to either air movement through the specimen or solar radiation effects. As a consequence, the thermal transmittance results obtained do not reflect performances which may be expected from field installations due to not accounting for solar radiation, air leakage effects, and the thermal bridge effects that may occur due to the specific design and construction of the fenestration system opening. Therefore, it should be recognized that the thermal transmittance results obtained from this test method are for ideal laboratory conditions and should only be used for fenestration product comparisons and as input to thermal performance analyses which also include solar, air leakage, and thermal bridge effects. An estimate of the experimental uncertainty for these results is available upon request.

Per the client, the test specimen described in this report was a production line unit submitted for initial certification and plant qualification and is described 'as tested'. Detailed drawings were available for laboratory records and compared to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by NCTL for a period of four (4) years. The results obtained apply only to the specimen tested. This report may not be reproduced, except in full, without the written approval of National Certified Testing Laboratories. NCTL is a testing lab accredited by A2LA to ISO/IEC 17025 and assumes that all information provided by the client is accurate and does not guarantee or warranty any product tested or installed. Testing described in this report was conducted in full compliance with NFRC requirements; any deviations are noted. ASTM C1363 and C1199 testing was performed with published NFRC deviations. Ratings included in this report are for submittal to an NFRC licensed IA for certification purposes and are not meant to be used for labeling purposes. Only those values identified on a valid Certification Authorization Report (CAR) are to be used for labeling purposes.

NATIONAL CERTIFIED TESTING LABORATORIES



DIGITAL SIGNATURE

STEVEN H. COBLE
Simulator In Responsible Charge



RAYMOND W. LAMB, P.E.
Senior Project Engineer
Person-in-Responsible Charge

ZM/hl

ATTACHMENT 1

Section 1:

Component Drawings, with Applicable Part Numbers, Manufacturing and Modeling Details, were Reviewed (as submitted) for Product Verification
(Reference: NCTL-110-14353-1)

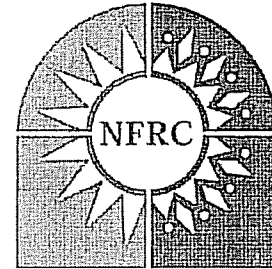
See Attached Documentation;
any deviations noted.

Note: The above referenced component drawings along with representative sections of the test specimen will be retained per procedure by NCTL. This testing facility assumes that all information provided by the client is accurate.

Section 2:

<u>Identification</u>	<u>Date</u>	<u>Page & Revision</u>
Original Issue	11/18/11	Not Applicable

NFRC PRODUCT CERTIFICATION PROGRAM



National Fenestration
Rating Council®

Submittal Form for Test Samples

For use by manufacturers, lineal suppliers and fabricators

1. Information on Production of the Test Sample (complete ALL fields):

Manufacturer: Acurlite Structural Skylights Date of sample manufacture: 10-21-11

Plant Address where manufactured: 1017 North Vine Street

City: Berwick State: Pa Zip Code: 18603

Name of IA: NAMI Phone: 804-684-5124 Fax: 804-684-5122

2. Product Information (complete ALL fields):

Product Line ID No.: _____ Operator Type (Table 4-3 of NFRC 100): Skylight

Series/Model: Skylight

3. Test sample is being submitted for (select ONE):

- a. Validation for Initial Certification (prototype only; Section 2.2.1.C of PCP), no plant qualification
- b. Validation for Initial Certification (production line unit; Section 2.2.1.B.ii of PCP) & plant qualification
- c. Validation for Recertification (production line unit; Section 2.2.1.B.ii of PCP) & plant qualification
- d. Plant Qualification Only (production line unit; Section 2.2.1.B.ii of PCP)

[Note: If the only test option is to be used, include a copy of the NFRC-certified simulator's statement and NFRC approval as required in NFRC 100 (1997) Sections 6.1 and 6.1.1.]

I, Keith Myer, as the designated agent for Acurlite Structural Skylights do hereby attest that the foregoing information is true to the best of my information, knowledge, and belief. Further, if the unit is identified in Section 3 as a production line unit, I hereby authorize the NFRC-accredited testing laboratory to send a copy of the test report to the IA identified above for plant qualification purposes pursuant to the NFRC Product Certification Program.

Signature: [Signature] Date: 10-31-11

FOR LABORATORY USE ONLY

1. Laboratory: National Certified Testing Laboratories

2. Date Sample Received: 10/24/11 File number ID: 14353-1

3. Date Sample Tested: 11/17/11 By: Zach Mundorf

4. Modifications made: N/A

5. Reason for non-testing of sample unit: N/A

[Note: If the sample submitted can not be tested due to damage prior to testing, a new sample and new form shall be submitted to the testing laboratory. Both forms shall be submitted to the IA when the testing is completed.]

TEST SPECIMEN COMPLIES
WITH THESE DETAILS.
ANY DEVIATION IS NOTED.

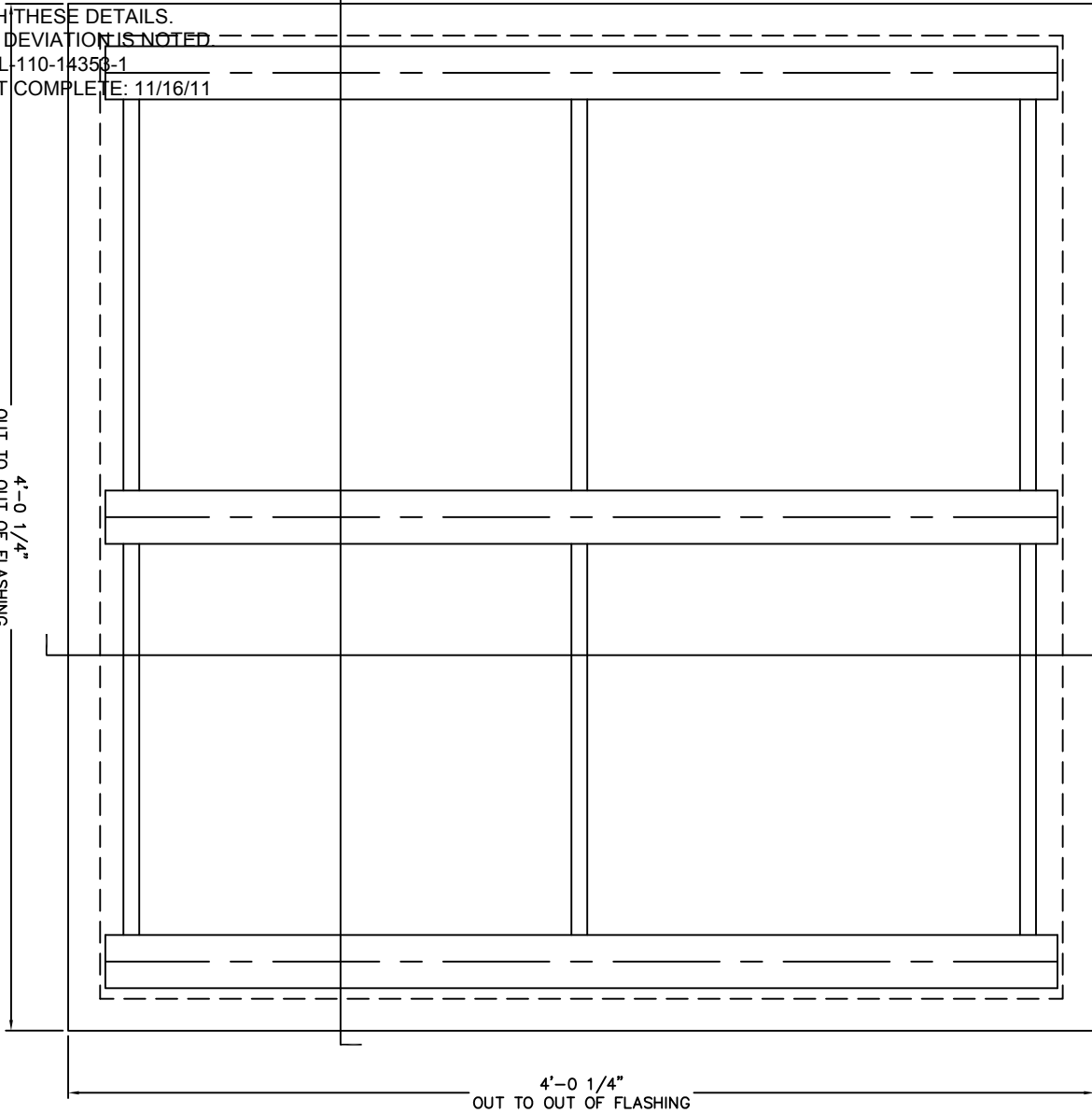
NCTL-110-14353-1 Acurlite Structural Skylights
TEST COMPLETE: 11/16/11

Part	Number	Material
4" Rafter	H-07833	Painted or Anodized Aluminum
Head / Sill Frame	S-31713	Painted or Anodized Aluminum
Snap Cover	S-08545	Painted or Anodized Aluminum
Pressure Cap	S-35591	Painted or Anodized Aluminum
Frame Spacer	S-38970	Painted or Anodized Aluminum

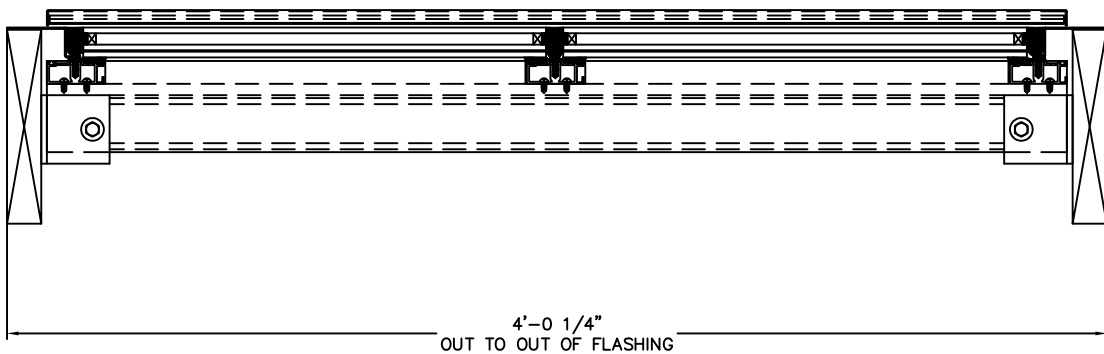
TEST SPECIMEN COMPLIES
WITH THESE DETAILS.
ANY DEVIATION IS NOTED.
NCTL: 110-14358-1
TEST COMPLETE: 11/16/11

CS-1
SK-1

4'-0 1/4"
OUT TO OUT OF FLASHING
PLAN VIEW
SCALE : 3" = 1'-0"



CROSS SECTION CS-1
SCALE : 3" = 1'-0"



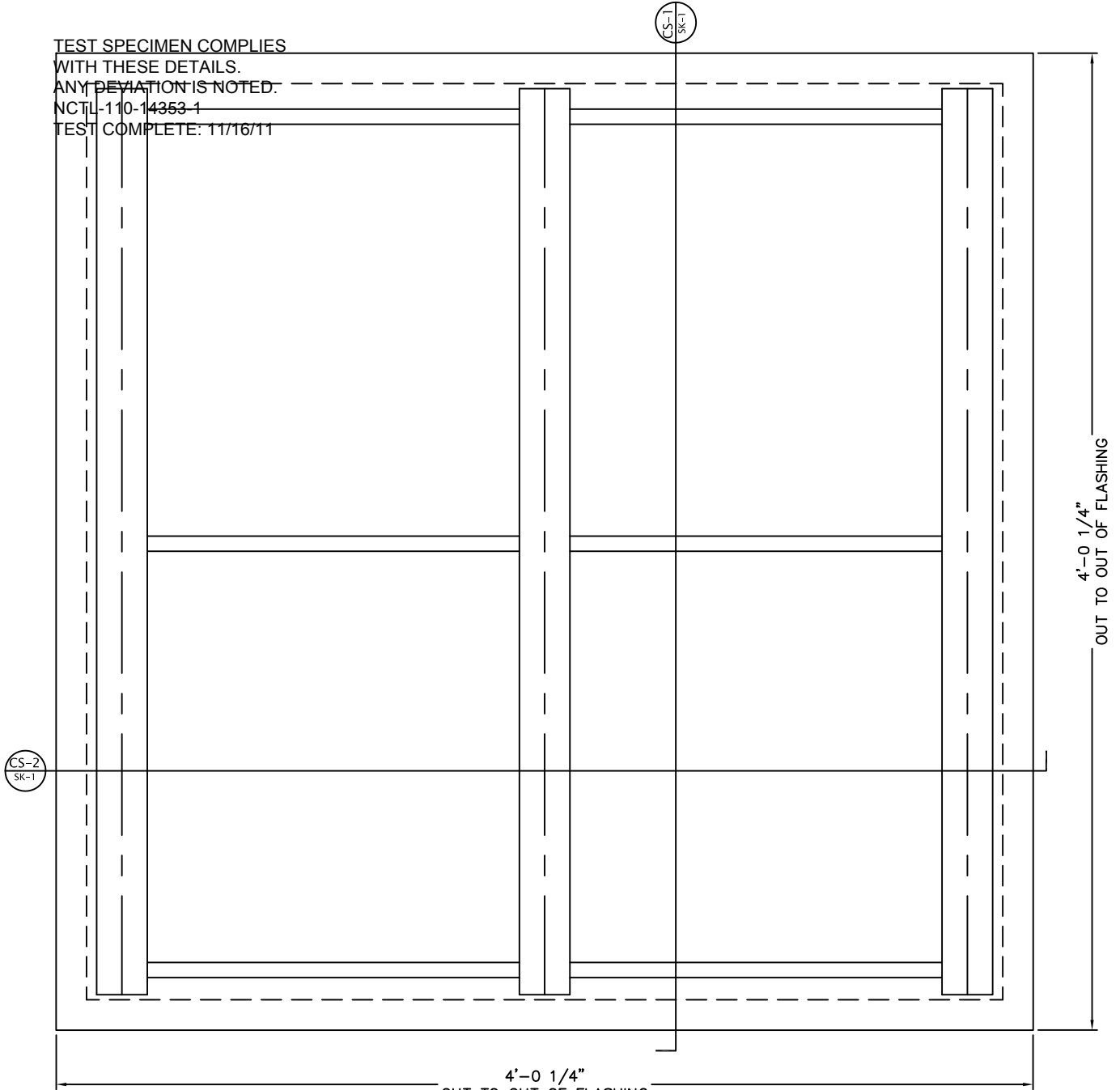
TEST SPECIMEN COMPLIES

WITH THESE DETAILS.

ANY DEVIATION IS NOTED:

NCTL-110-14353-1

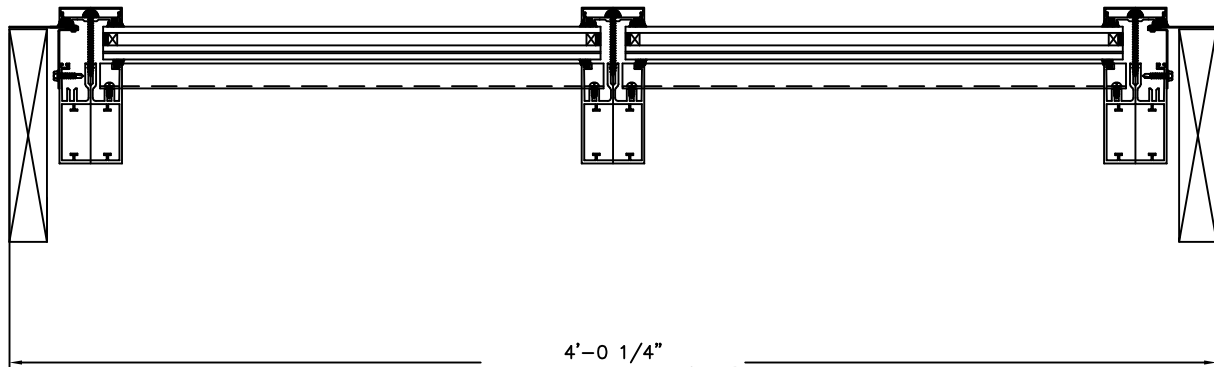
TEST COMPLETE: 11/16/11



4'-0 1/4"
OUT TO OUT OF FLASHING

PLAN VIEW

SCALE : 3" = 1'-0"



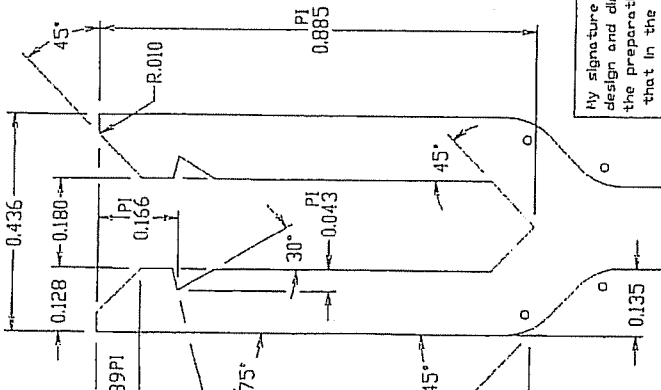
4'-0 1/4"
OUT TO OUT OF FLASHING

CROSS SECTION CS-2

SCALE : 3" = 1'-0"

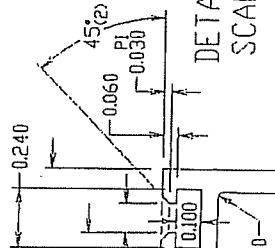
STRUCTURAL STREAKING IS EXPECTED

"A"
4:1



My signature on this print indicates approval of design and dimensions as shown and I authorize the preparation of extrusion die and acknowledge that in the event I do not purchase 25,000 lbs. for solids or 30,000 lbs. for hollows of material within a period of 18 months, that I will pay the cost of making the die, which shall be

Date _____
Signature _____



DETAIL "B"
SCALE 2:1

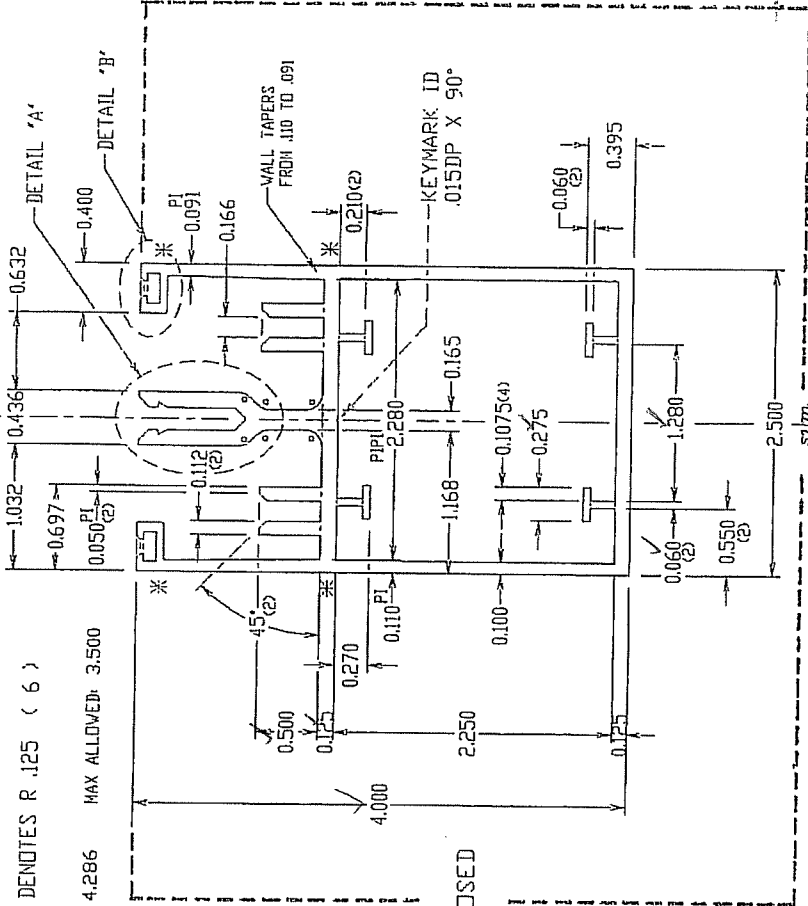
Factor 16
Type: 00
C-hp
Hll
Incr.
Dr-cr.
E-51

STANDARD COMMERCIAL TOLERANCES FOR EXTRUDED PRODUCTS APPLY UNLESS SPECIFIED OTHERWISE

ACTUAL SIZE

() DENOTES R .125 (6)

S/H RATIO: 4.286 MAX ALLOWED: 3.500



EXPOSED



KEYMARK CORPORATION
FONDA, NEW YORK

FAX ENG. (518) 853-3435 SALES (518) 853-3130

TEL. (518) 853-3421 E-MAIL engny@keymarkcorp.com

Unspecified Part Title
Val Thickness .100 4 RAPTER
Customer ACULITE SKYLIGHTS
Job Name

Break All Corners Radius of Gas Marked
Customer's Part Number
Scale
Date
Job No.

Syn. PRINT CORRECTION Revisions Date

Alloy 6063 Est. Area 2.127 in²

Temper T-5 Est. Wt. 2.552 Lbs

Cavity Size Circle Size 4.7

Solid Semi-Hollow Class Hollow Class 2

TEST SPECIMEN COMPLIES

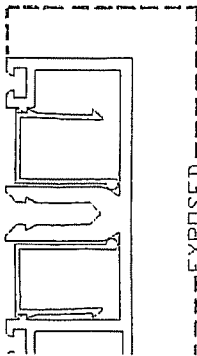
REVISIONS
NO. 1
DATE 11/16/11
14353-1

INITIAL HERE FOR
ID TYPE/LOCATION APPROVAL

STRUCTURAL STREAKING IS EXPECTED

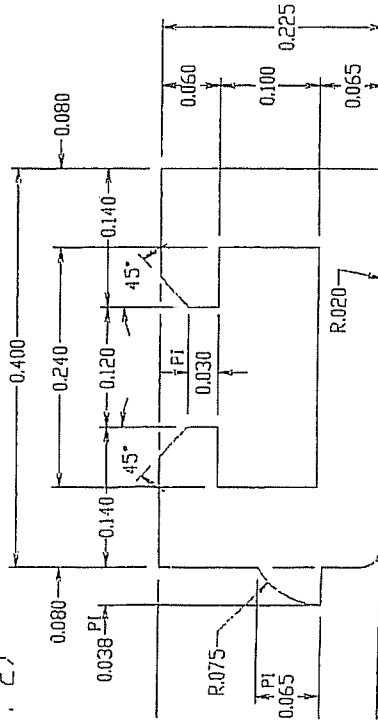
S-31713 MATES WITH: S-31712

ACTUAL SIZE



--- EXPOSED ---
 AT10: 3.589 MAX ALLOWED: 3.500

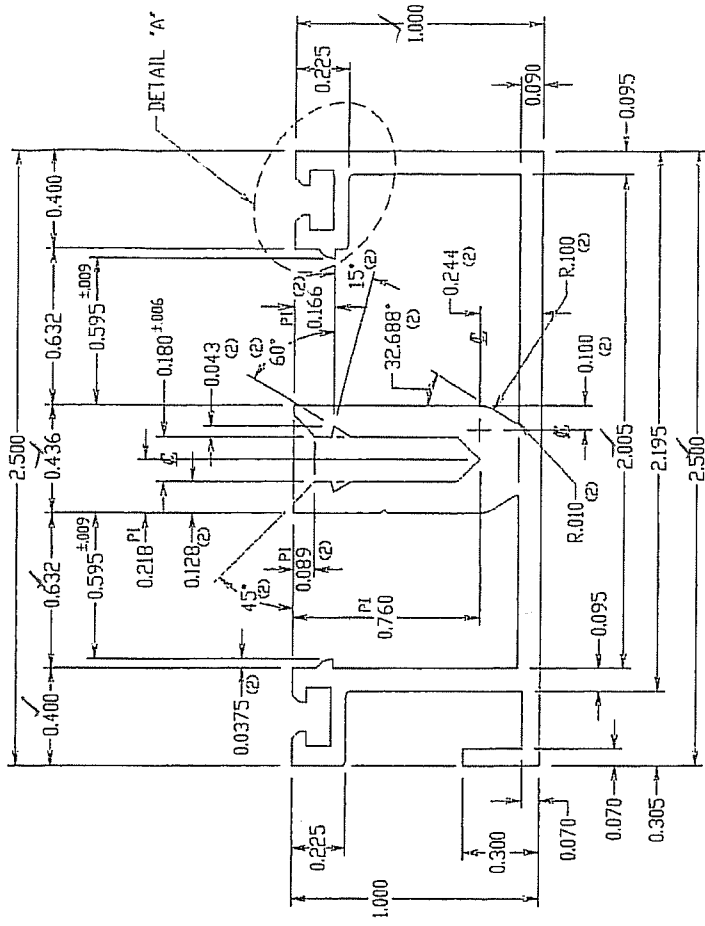
L "A"
 E 8:1
 (2)



STANDARD COMMERCIAL TOLERANCES FOR EXTRUDED PRODUCTS APPLY UNLESS SPECIFIED OTHERWISE

SEMI-HOLLOW

S-31713
 File Number



KEYMARK CORPORATION
 FOND LAKE, NEW YORK
 FAX ENG. (516) 853-3435 SALES (516) 853-3130
 TEL (516) 853-3421 E-MAIL keyeng@keymarkcorp.com

Unspecified Wall Thickness: AS NOTED	Break All Corners: 90° Radius or as Noted
Customer: ACURITE SKYLIGHTS	Customer's Part Number: EST-11-01
Job Name: ACURITE SKYLIGHTS	Part Title: Scale: 2:1
Part Title: Alloy: 6063	Est. Area: 0.791 In ²
Revisions: 2 PRINT CORRECTION	Est. Vt./Ft.: 0.877 Lbs
Date: 04-21-02	Est. Perimeter: 15.021 In
Temp: T-5	Circle Size: 2-3 In
Cavity Size: 2-3 In	Exterior Perimeter: 15.021 In
Solid <input type="checkbox"/> Semi-hollow <input checked="" type="checkbox"/> Class <input type="checkbox"/> Hollow <input type="checkbox"/> Class <input type="checkbox"/>	Checked: S.C.S.

I _x = 0.080	I _y = 0.418	Factor	Type DF Finish
S _x = 0.134	S _y = 0.332	17	Mill <input type="checkbox"/> Ano. <input type="checkbox"/> Drnr. <input type="checkbox"/> Drccn. <input type="checkbox"/>

COMPLIES WITH THE DETAILS. ANY DETAILS NOTED. 11/16/11

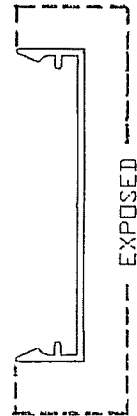
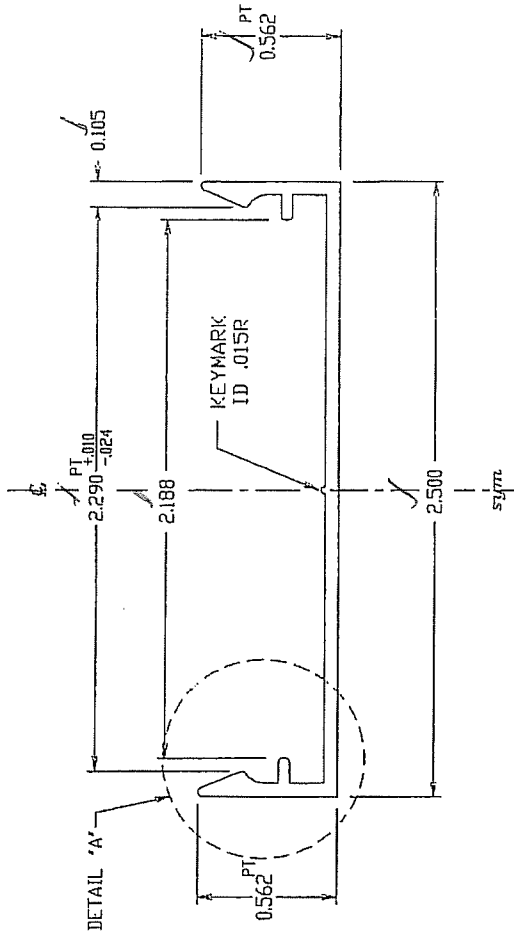
STRUCTURAL STREAKING IS EXPECTED

STANDARD COMMERCIAL TOLERANCES FOR EXTRUDED PRODUCTS APPLY UNLESS SPECIFIED OTHERWISE

S-08547
The Number

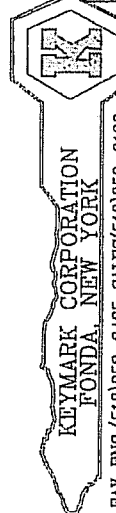
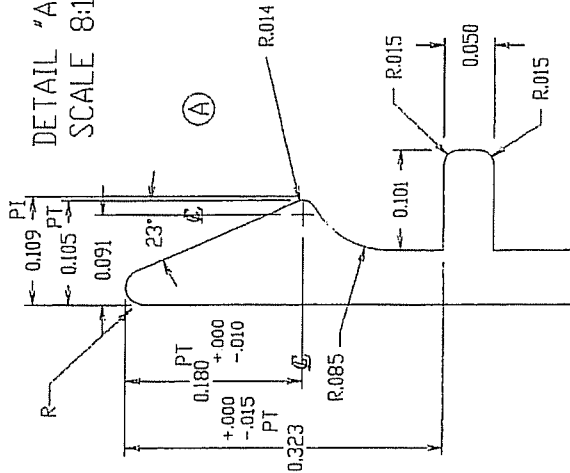
MATES WITH:
S-08547
S-08548
S-14747

ACTUAL SIZE



FOR ASSEMBLY REFER TO S-08547

DETAIL "A"
SCALE 8:1



KEYMARK CORPORATION
FONDA, NEW YORK
FAX ENG. (518) 853-3435 SALES (518) 853-3130
TEL. (518) 853-3421 E-MAIL keyeng@keymarkcorp.com

Revisions	Date
2 PRINT REVISION	05-04-97
PRINT REDRAWN SUS	11-01-95
A SNAP DETAIL REVISED	05-01-91

Unspecified Wall Thickness	Customer	Break All Corners .015 Radius or as Noted
.055	KEYMARK CORPORATION	

Job Name	Part Title	Scale
PT-252	.562 SNAP COVER	2:1

Est. Area	Est. Vt./Ft.	Est. Perimeter	Circle Size	Exterior Perimeter
6063	T-5	T-5	2-3	2-3

Alloy	Temper	Circle Size	Exterior Perimeter
6063	T-5	2-3	2-3

Factor	Ano.	Dr-cr.	Dr-cr.
30	522	522	522

I _x = 0.005	I _y = 0.178	S _x = 0.011	S _y = 0.143

Customer's Part Number	Job Name	Part Title	Scale
252102	PT-252	.562 SNAP COVER	2:1

Est. Area	Est. Vt./Ft.	Est. Perimeter	Circle Size	Exterior Perimeter
6063	T-5	T-5	2-3	2-3

Alloy	Temper	Circle Size	Exterior Perimeter
6063	T-5	2-3	2-3

ANY DIMENSIONS NOTED IN THIS REPORT MUST BE TESTED TO COMPLY WITH THE DRAWING DETAILS. IS NOTED. 11/16/11 110.1435 2-1

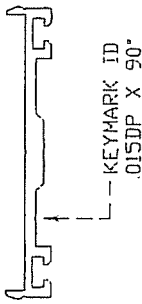
STRUCTURAL STREAKING IS EXPECTED

STANDARD COMMERCIAL TOLERANCES FOR EXTRUDED PRODUCTS APPLY UNLESS SPECIFIED OTHERWISE

S-35591
Die Number
Design Number

ACTUAL SIZE

NO EXPOSED SURFACES

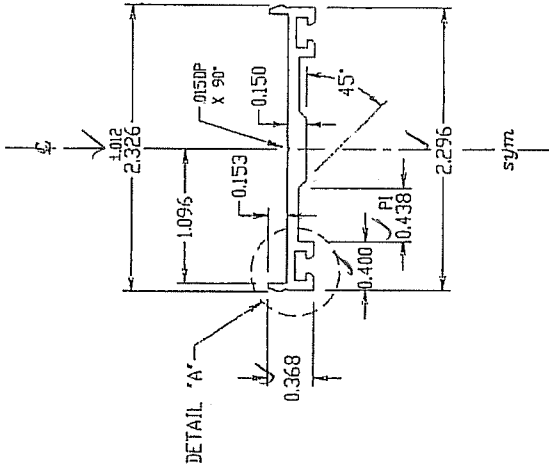


My signature on this print indicates approval of design and dimensions as shown and I authorize the preparation of extrusion die at the cost of:

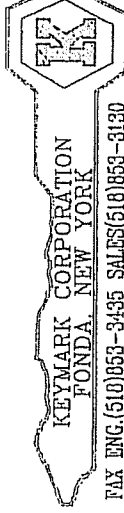
\$ 389.00

Date

Signature



TEST SPECIMEN COMPLIES WITH THESE DETAILS. ANY DEVIATION IS NOTED. REPORT NO. NOTL-110-14353-1 TEST DATE 11/16/11



Unspecified Wall Thickness .090 Break All Corners Radius or as Noted
Customer ACURITE SKYLIGHTS
Job Name

Part Title	SKYLIGHT PRESSURE CAP	Scale	1:1
Alloy	6063	Finish Perimeter	In
Temper	T-6	Est. Perimeter	0.000
Cavity Size	Circle Size 2.3	Est. Perimeter	6.969
		Ext. Perimeter	6.969
		Circle Size	2.3
		Ext. Perimeter	6.969
		Circle Size	2.3
		Ext. Perimeter	6.969

Svr.	Revisions	Date
	PRINT CORRECTION	

INITIAL HERE FOR ID TYPE/LOCATION APPROVAL

Ana. Dmr. Drcn. Solid
 Semi-hollow Class Hallow Class

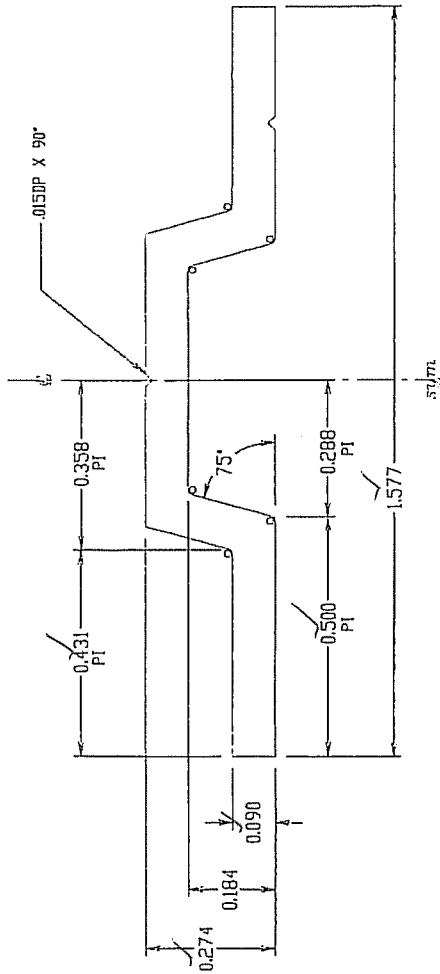
Material	Aluminum	Type	00
Factor	20	Factor	20
Factor	20	Factor	20

STRUCTURAL STREAKING IS EXPECTED

UNIFORM PAINT COVERAGE NOT EXPECTED IN THIS AREA

STANDARD COMMERCIAL TOLERANCES FOR EXTENDED PROJECTS APPLY UNLESS SPECIFIED OTHERWISE

S-38970
 Part Number
 Design Number



(°) DENOTES R .010 (6)



775.90

10-11-05

Handwritten signature

TEST SPECIMEN COMPLIES WITH THESE DETAILS
 ANY DIMENSION IS NOTED
 REPORT NO. NOTATION 14353-1
 TEST DATE 11/16/11



KEYMARK CORPORATION
 FONDA NEW YORK

FAX ENG (516) 653-3435 SALES (516) 653-3130
 TEL (516) 653-3421 E-MAIL engny@keymarkcorp.com

Unspecified Mail Thickness	.080	Break Est Corners	.010	Customer's Part Number	
Part Title	STRUCTURAL SEAL	Est. Area	0.167	Est. Perimeter	10-14-05
Alloy	6063	Est. Weight	3.500	Est. Perimeter	10-14-05
Temp	T-5	Est. Weight	0.200	Est. Perimeter	10-14-05
Temp	1.6	Est. Weight	3.910	Est. Perimeter	10-14-05

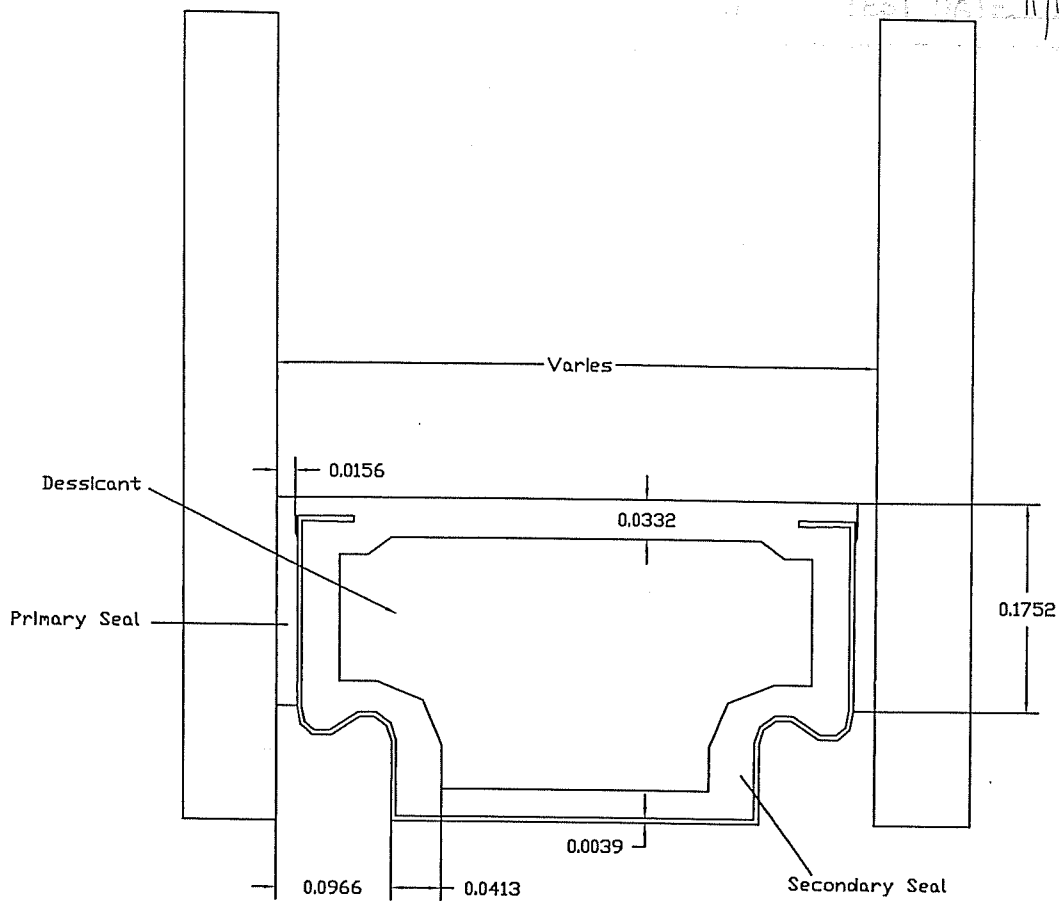
Rev	Date	Revisions
1		PRINT CORRECTION

INITIAL HERE FOR ID TYPE/LOCATION APPROVAL

Material	6063	Type	00
Temp		Factor	20

Scale: 1:1
 Date: 11/16/11
 Drawn: []
 Checked: []
 Approved: []
 Date: []

TEST SPECIMEN COMPLETED
 WITH THESE DETAILS.
 ANY DEVIATION IS NOTED.
 REPORT NO. NOTED I.D. 14353-1
 TEST DATE 11/16/11



Technoform

Spacer Dimensions -Fill dimensions where applicable - Please fill out a spacer sheet for each spacer used whether spacer type or size.

Primary Seal	Secondary Seal	Material	Fill
<input checked="" type="checkbox"/> Butyl	<input checked="" type="checkbox"/> Butyl	<input type="checkbox"/> Aluminum	<input checked="" type="checkbox"/> Dessicant
<input type="checkbox"/> PIB	<input type="checkbox"/> PIB	<input type="checkbox"/> Steel - Mild	<input type="checkbox"/> Air
<input type="checkbox"/> Polysulphide	<input type="checkbox"/> Polysulphide	<input checked="" type="checkbox"/> Steel - Stainless	<input type="checkbox"/> Other _____
<input type="checkbox"/> Silicone	<input type="checkbox"/> Silicone	<input type="checkbox"/> Steel - Galvanized	
<input type="checkbox"/> Urethane	<input type="checkbox"/> Urethane	<input type="checkbox"/> Vinyl	
<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> Foam _____	
<input type="checkbox"/> Other _____	<input type="checkbox"/> Other _____	<input type="checkbox"/> Other _____	