

CERTAINTEED LLC

TEST REPORT

SCOPE OF WORK

UL 7103, SECTION 26.2 TESTING ON SUNSTYLE, BIPV SYSTEM

REPORT NUMBER

M8039.02-109-18

TEST DATE

10/05/21

ISSUE DATE

06/17/25

RECORD RETENTION END DATE

10/05/25

PAGES

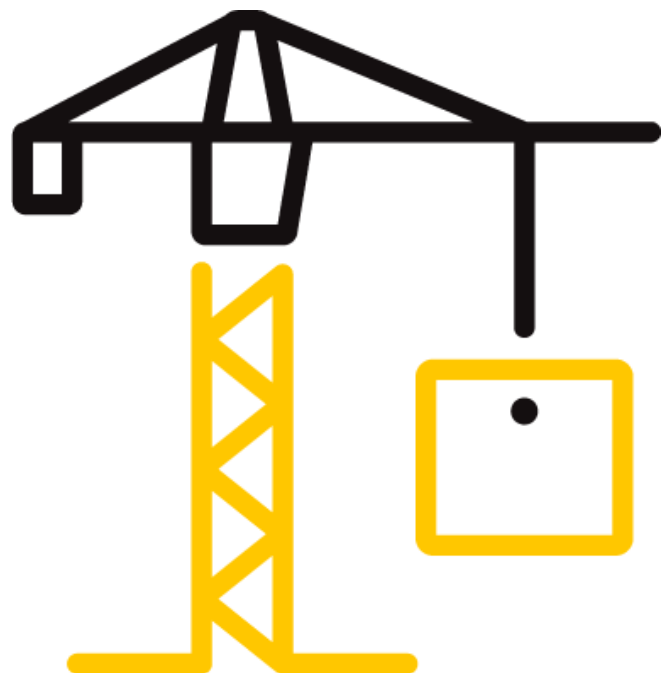
49

DOCUMENT CONTROL NUMBER

ATI 00479 (07/24/17)

RT-R-AMER-Test-2805

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TEST REPORT FOR CERTAINTEED LLC

Report No.: M8039.02-109-18

Date: 06/17/25

REPORT ISSUED TO

CERTAINTEED LLC

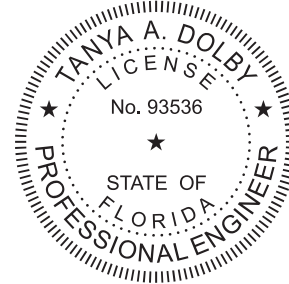
18 Moores Road

Malvern, Pennsylvania 19355

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by AMYT Energy Holdings LLC dba Sunstyle to perform testing in general accordance with UL 7103, Section 26.2 on their SunStyle, BIPV system. This test report is a reissue of the original Report No. M8039.01-109-44. This report is issued in the name of CertainTeed LLC through written authorization of AMYT Energy Holdings LLC dba Sunstyle. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek B&C test facility in York, Pennsylvania.



2025.06.17 17:33:03 -04'00'

For INTERTEK B&C:

COMPLETED BY:	Ken R. Stough
TITLE:	Project Manager – Product Testing
SIGNATURE:	<i>Original Signature on File</i>
DATE:	06/17/25

REVIEWED BY:	Tanya A. Dolby, P.E.
TITLE:	Engineering Manager – Engineering Services
SIGNATURE:	<i>Tanya A. Dolby</i>
DATE:	06/17/25

Digitally Signed by: Tanya Dolby

For INTERTEK B&C:

COMPLETED BY:	Vicki L. McElwain
TITLE:	Training Coordinator – Quality
SIGNATURE:	<i>Vicki L. McElwain</i>
DATE:	06/17/25

Digitally Signed by: Vicki L. McElwain

KRS/APM:nls/mas

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SECTION 2**TEST METHOD(S)**

The specimen was evaluated in general accordance with the following:

UL 7103, *Standard for Safety for Building-Integrated Photovoltaic Roof Coverings (Draft January 20,2020)*

TAS 100 (A)-95, *Test Procedure for Wind and Wind Driven Rain Resistance and/or Increased Windspeed Resistance of Soffit Ventilation Strip and Continuous or Intermittent Ventilation System Installed at the Ridge Area*

The system was tested in accordance with UL 7103, Section 26.2 and was installed onto a TAS 100(A) deck, not a 50" (1.3 m) wide by 66" (1.7m) long deck. The testing was performed as if it was a modified TAS 100(A) test.

SECTION 3**MATERIAL SOURCE/INSTALLATION**

Test specimen was provided by the client. Representative samples of the test specimen(s) will be retained by Intertek B&C for a minimum of four years from the test completion date.

SECTION 4**EQUIPMENT/CALIBRATION**

Vane Axial Fan – Y003346

Scale – 65571

Stopwatch – INT00974

Weather Station – INT00382

SECTION 5**LIST OF OFFICIAL OBSERVERS**

NAME	COMPANY
Tyler J. Holland	Intertek B&C
Vicki L. McElwain	Intertek B&C
Andrew P. Mehalick	Intertek B&C

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SECTION 6**TEST SPECIMEN DESCRIPTION****Manufacturer:** SunStyle**Product Type:** BIPV System**Series/Model:** SunStyle

Roof Deck Description: An 8' 0" wide by 6' 0" long roof deck on a 2:12 slope was utilized. The roof deck consisted of #2 Spruce-Pine-Fir nominal 2x6 intermediate supports sheathed with APA 32/16 span rated 15/32" plywood sheathing. The intermediate supports were spaced 24" on center. The plywood was secured to the rafters with 8d common nails spaced 6" on center around the perimeter and 12" on center at the intermediate supports.

Underlayment, and Prepared Roof Covering Description: The underlayment consisted of a single layer of SOLITEX MENTO 3000 underlayment. The underlayment was attached to the deck in a grid pattern of 4" to 6" between the overlaps, with 3/8-inch crown by 5/16" long staples. The underlayment was placed to allow an overlap of at least 4" at each lap area. The seams were sealed using a double-sided tape. A layer of 2x4 battens was placed at each rafter location and ran with the rafters. The battens were secured to the test deck using 3" drywall screws spaced 12" on center, through the battens, underlayment, sheathing, and into the rafters. A second layer of battens was placed on top of the first layer perpendicularly. The second layer was spaced 16" on center and secured to the first layer using 3" drywall screws. A third layer was placed on top of the second layer and ran with the rafters at each rafter location and secured in place using 3" drywall screws. A fourth layer of 1x4 battens was placed on top and ran perpendicular to the third layer. The battens were spaced 18-1/2" on center and secured using 3" drywall screws. The sides of the deck allowed for a 2x6 and 2x4 to be placed on each side and flashed with 20-gauge steel flashing. Flashing was used at the bottom of the battens and between the panels and ridge cap. Installation clips were placed where the panels were bolted down and secured using two #10 x 1-1/4" flat head self-drilling screws.

BIPV System Description: The BIPV System consisted of PV panels and ACM panels. Two PV panels without stiffeners were utilized in the field of the deck. The rest of the deck was composed of ACM panels with varying sizes and measured 0.170" thick. The panels had seals that ran the top edge of all the panels and an anchor seal at each corner location of the panels. The panels were attached to the deck using M6-0.75 x 20 and M6-0.75 x 30 bolts and M6-0.75 x 30 standoffs in the appropriate areas. A 2" diameter pipe was placed through the BIPV system, sheathing, and into the test hut. The pipe was placed 20" from the right side and 28" above the bottom edge. The pipe was sealed at the panels and the underlayment using a self-adhering pipe grommet. An electrical box was fastened to the roof deck 22" from the left side and 22" below the ridge of the roof deck. The electrical box allowed for a 1/2" steel conduit to penetrate through the roof deck and was sealed using a self-adhering grommet. The test sample was installed by the client.

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SECTION 7

TEST RESULTS

Test Date(s): 10/05/21

The temperature during testing was 71°F (22°F). The results are tabulated as follows:

TRIAL NO.	WTP	REQUIRED RAINFALL	WATER COLLECTED IN ONE MINUTE		SIMULATED RAINFALL*	RESULT (±5% of required)
1	1.0 psi	1.5 in/hr	10.42 lbs	1.25 gal*	1.50 in/hr	PASS

*Simulated Rainfall Calculation:

- 10.42 lbs of water was collected.
- $10.42 \text{ lbs} / 8.345 \text{ lbs/gal} = 1.25 \text{ gal}$ collected in one minute.
- $(1.25 \text{ gal/min}) (60 \text{ min/hr}) (231 \text{ in}^3/\text{gal}) = 1.50 \text{ in/hr}$
 $11,520 \text{ in}^2$

Test Procedure: The wind speed intervals were conducted as follows:

Interval No.	Wind Speed (mph) (kph)	Time (min)	Water Spray
1	40 (72)	0	On
2	45 (81)	5	On
3	50 (90)	10	On
4	55 (99)	15	On
5	60 (108)	30	On
6	60 (108)	30	On

Test Results: The test results are as follows:

Wind Speed	Results
40 (72)	<0.01 oz.
45 (81)	<0.01 oz.
50 (90)	<0.01 oz.
55 (99)	<0.01 oz.
60 (108)	<0.01 oz.
60 (108)	<0.01 oz.

Result(s): Pass

Note: Tested at a 2:12 roof pitch.

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SECTION 8

CONCLUSION

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained for the entire test record retention period.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule, also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

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SECTION 9
PHOTOGRAPHS



Photo No. 1
Top Side Before Testing



Photo No. 2
Underside Before Testing

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Photo No. 3
Underside Before Testing



Photo No. 4
40 MPH Top Side

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Photo No. 5
40 MPH Underside



Photo No. 6
40 MPH Underside

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Photo No. 7
45 MPH Top Side



Photo No. 8
45 MPH Underside

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Photo No. 9
45 MPH Underside



Photo No. 10
50 MPH Top Side

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Photo No. 11
50 MPH Underside



Photo No. 12
50 MPH Underside

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Photo No. 13
55 MPH Top Side



Photo No. 14
55 MPH Underside

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Photo No. 15
55 MPH Underside



Photo No. 16
60 MPH Top Side

TEST REPORT FOR CERTAINTED LLC

Report No.: M8039.02-109-18

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Photo No. 17
60 MPH Underside



Photo No. 18
60 MPH Underside

TEST REPORT FOR CERTAINTEED LLC

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Photo No. 19
Post Test Top Side



Photo No. 20
Post Test Underside

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Date: 06/17/25



Photo No. 21
Post Test Underside



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130 Derry Court
York, Pennsylvania 17406

Telephone: 717-764-7700
Facsimile: 717-764-4129
www.intertek.com/building

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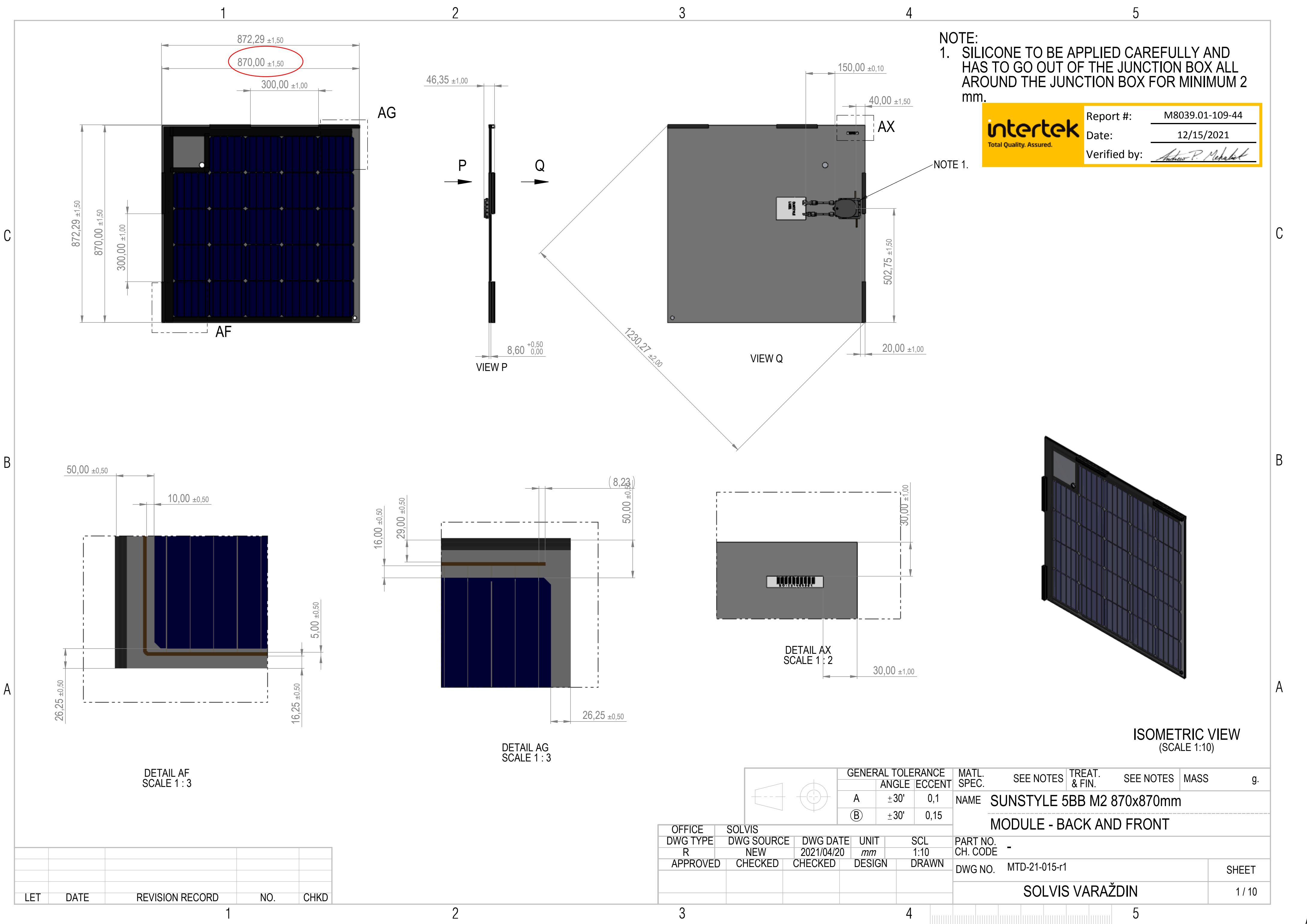
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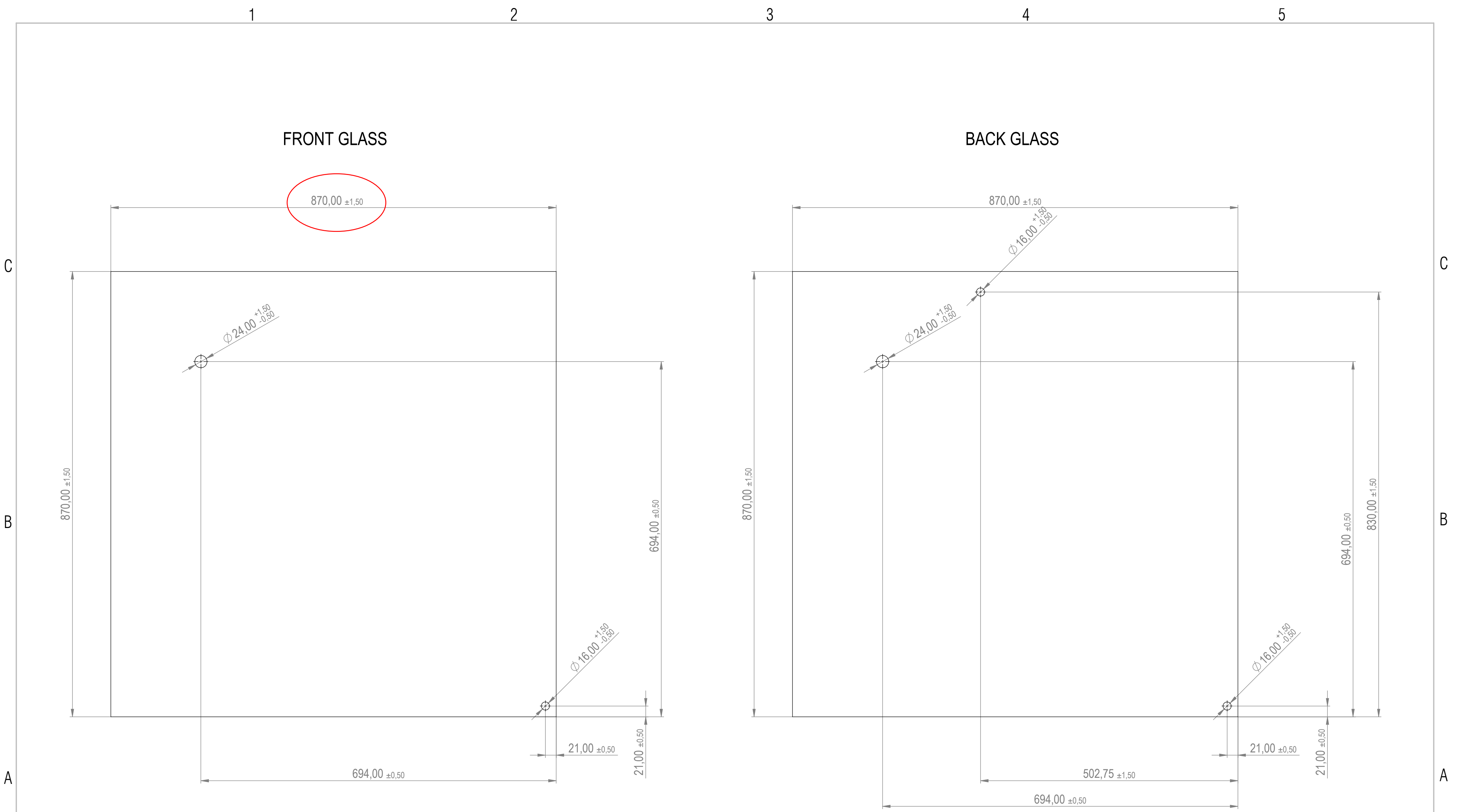
Date: 06/17/25

SECTION 10

DRAWINGS

The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.





LET	DATE	REVISION RECORD	NO.	CHKD



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Date:

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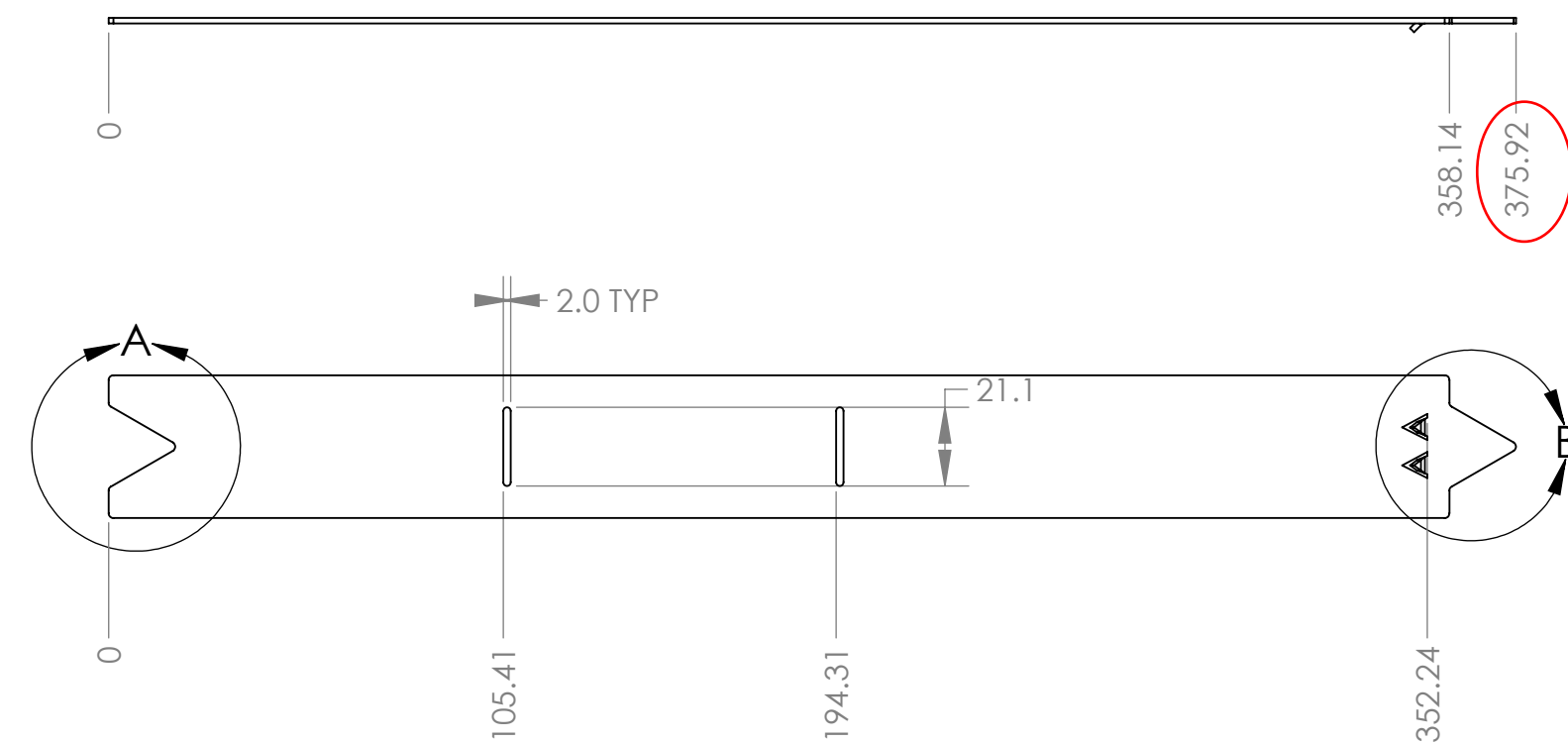
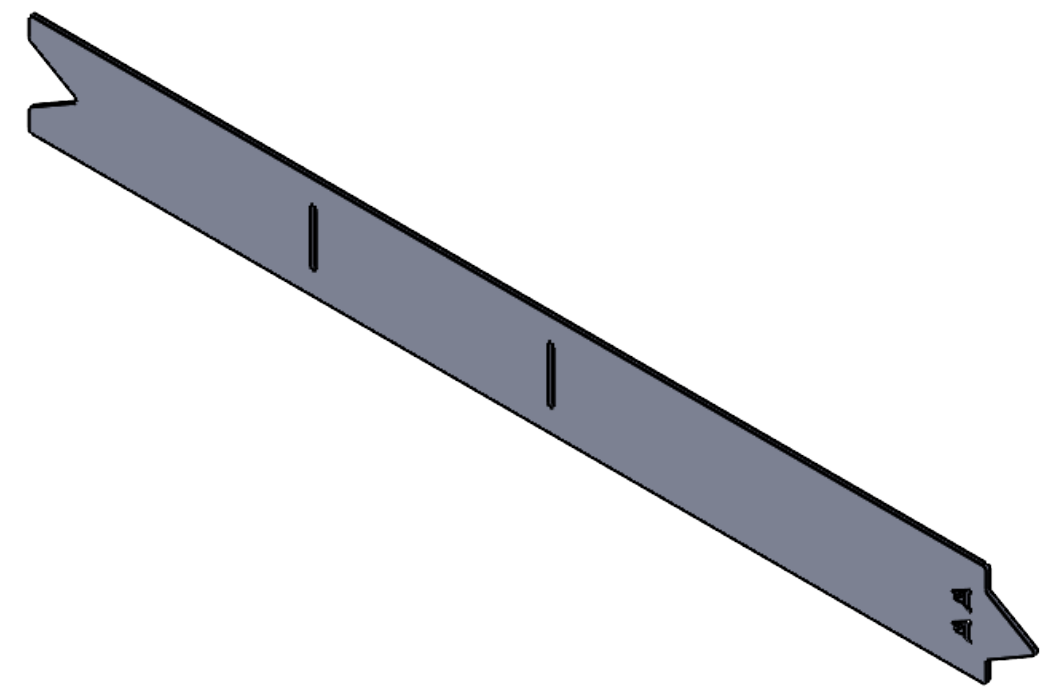
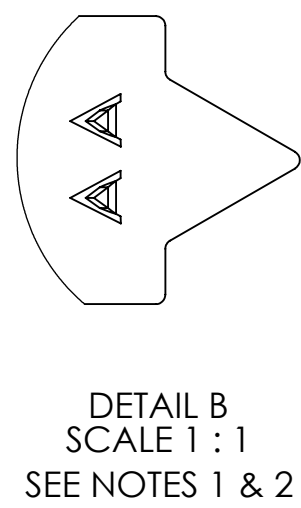
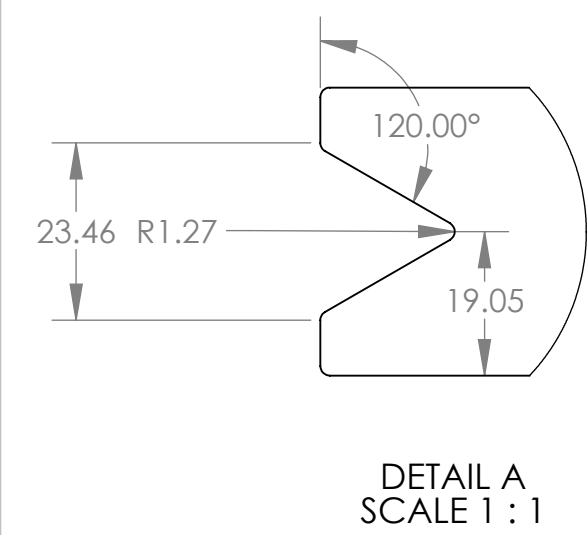
12/15/2021

Andrew P. McFarland

OFFICE	SOLVIS
DWG TYPE	DWG SOURCE
R	NEW
APPROVED	CHECKED

DWG DATE	UNIT	SCL
2021/04/20	mm	1:10
CHECKED	DESIGN	DRAWN

MATL. SPEC.	SEE NOTES	TREAT. & FIN.	SEE NOTES	MASS	g.
NAME	SUNSTYLE 5BB M2 870x870mm				
GLASS DRAWINGS					
PART NO.	-				
CH. CODE	-				
DWG NO.	MTD-21-015-r1				SHEET
SOLVIS VARAŽDIN					7 / 10



NOTES:
1. DETAIL B DIMENSIONS ARE INVERSE OF DETAIL A
2. DETAIL B SHOULD FIT NEATLY INTO DETAIL A



Report #:

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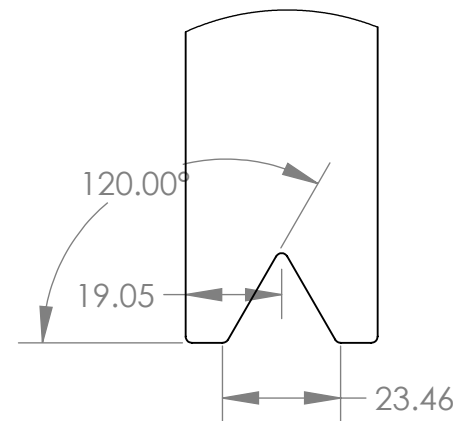
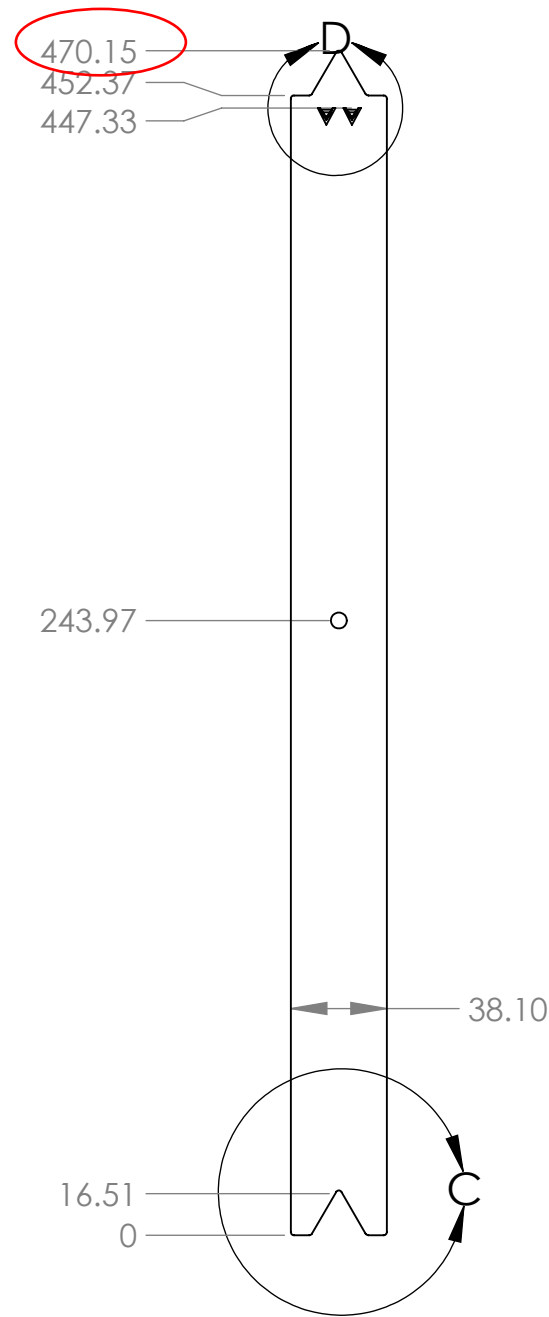
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12/15/2021

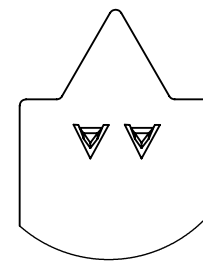
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				SCALE 1:2	SHEET 1 OF 1



DETAIL C
SCALE 2 : 3



DETAIL D
SCALE 2 : 3



- NOTES:
1. DETAIL D DIMENSIONS ARE INVERSE OF DETAIL C
 2. DETAIL D SHOULD FIT NEATLY INTO DETAIL C



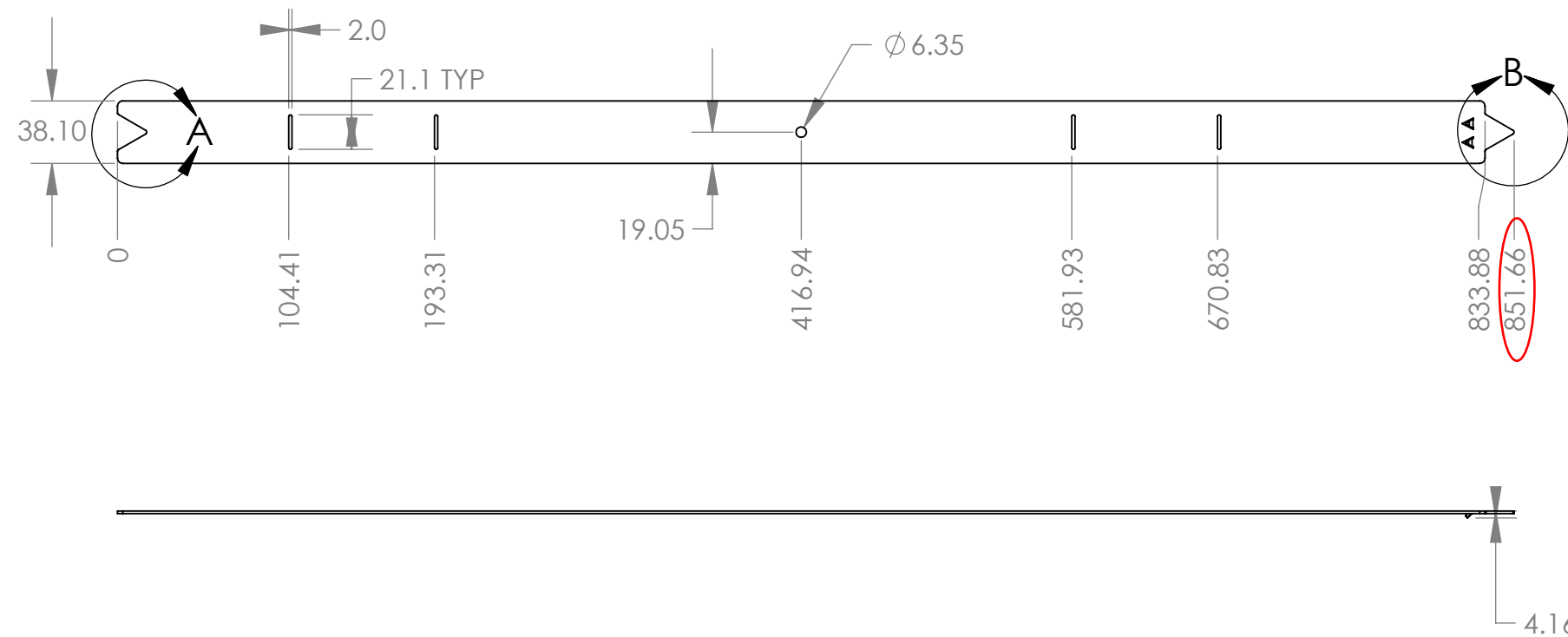
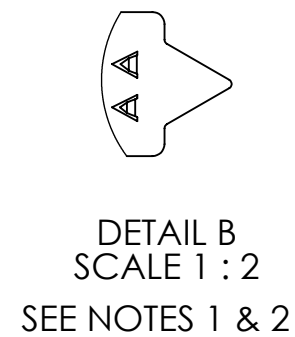
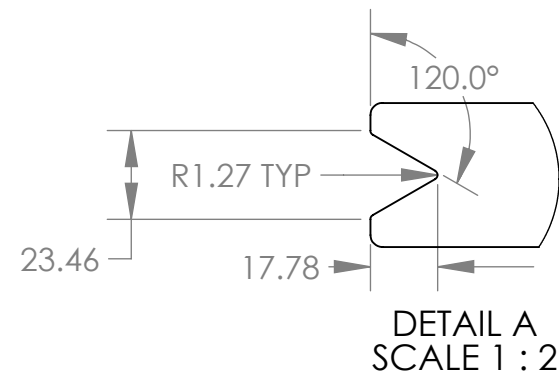
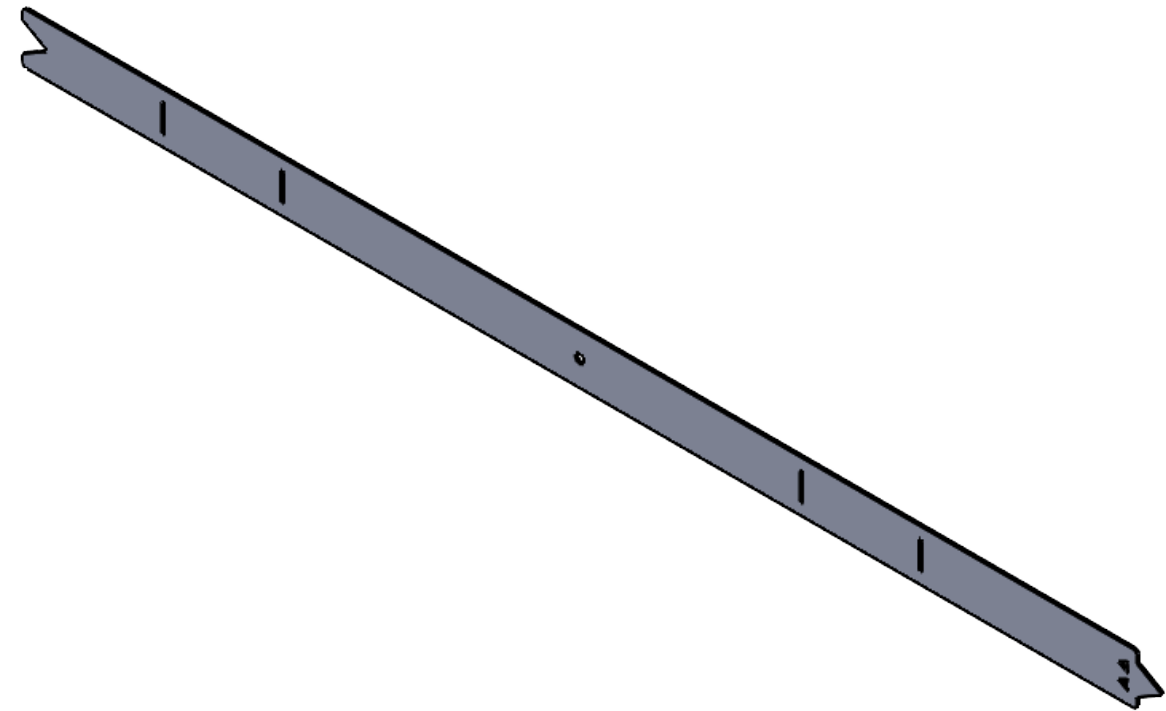
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Date: 12/15/2021

Verified by: *Andrew P. Mahalik*

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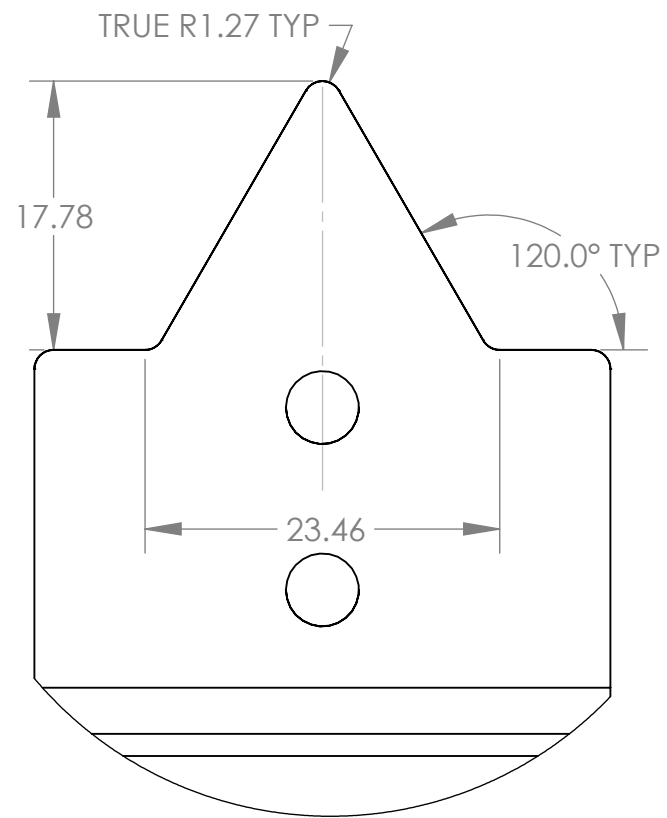
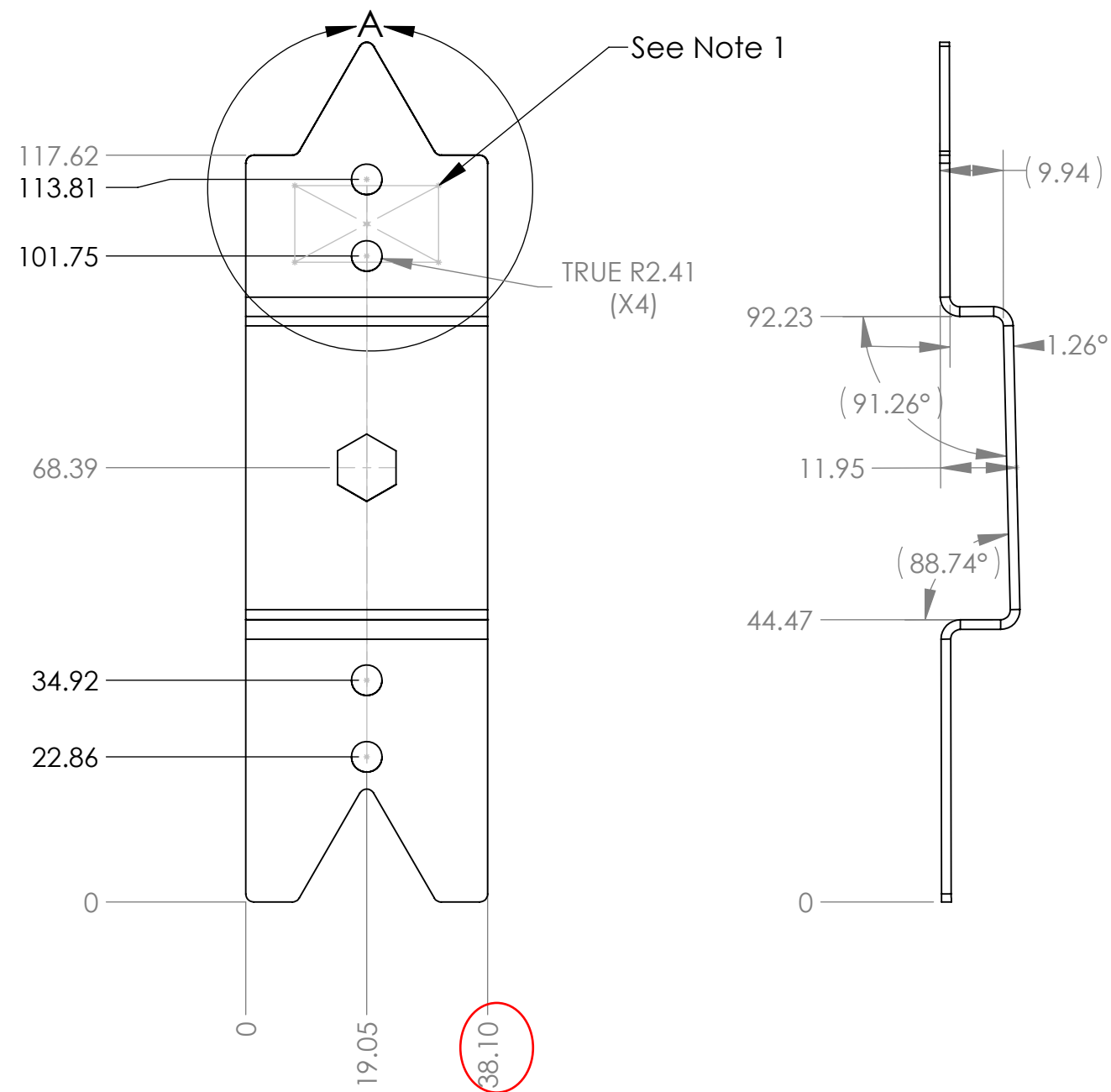


- NOTES:
1. DETAIL B DIMENSIONS ARE INVERSE OF DETAIL A
 2. DETAIL B SHOULD FIT NEATLY INTO DETAIL A

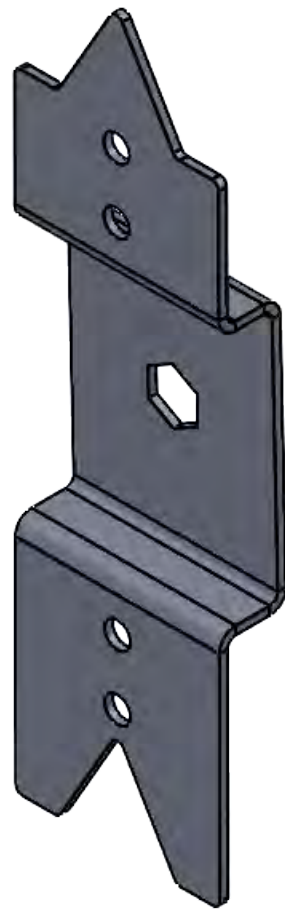


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Date: 12/15/2021
Verified by: *Andrew P. Mehalick*

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DETAIL A
SCALE 2 : 1



NOTES:

1. Downward protrusions with length between .025 and .060

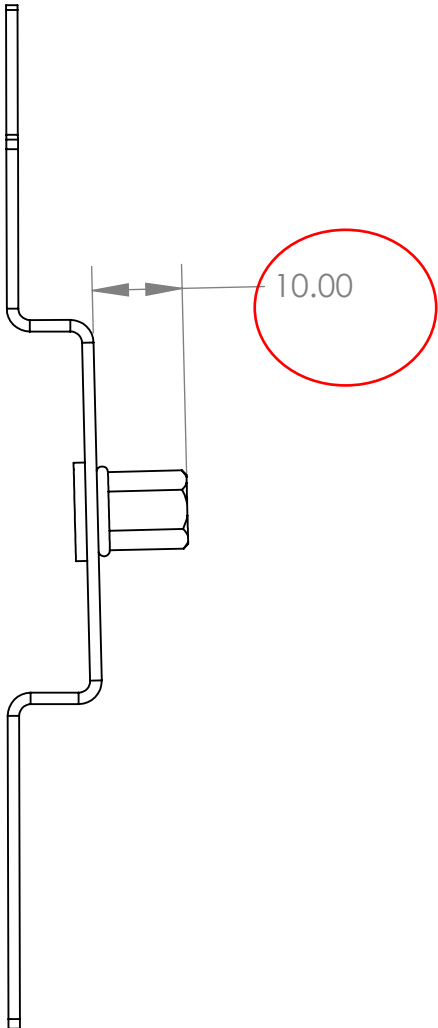
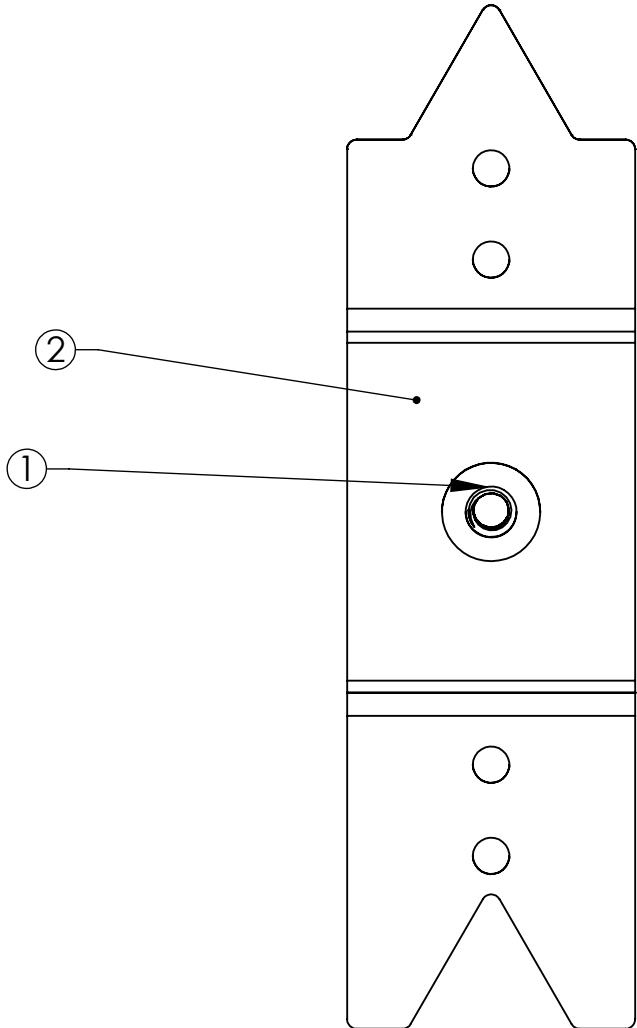


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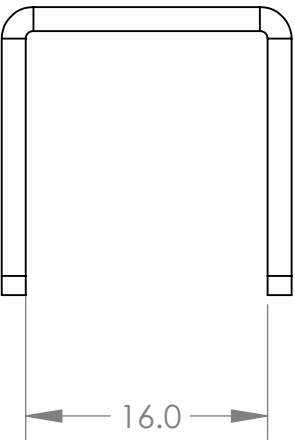
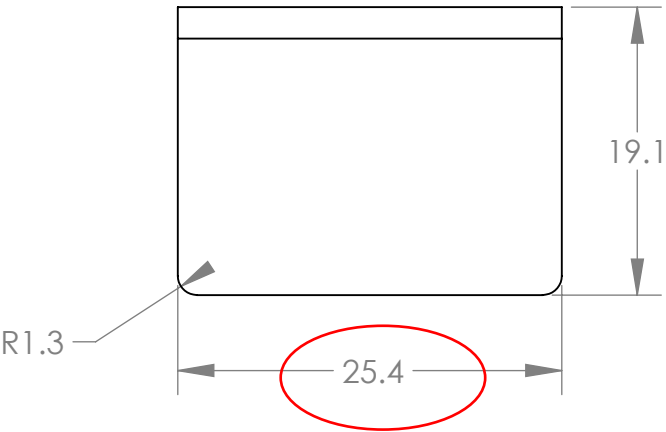
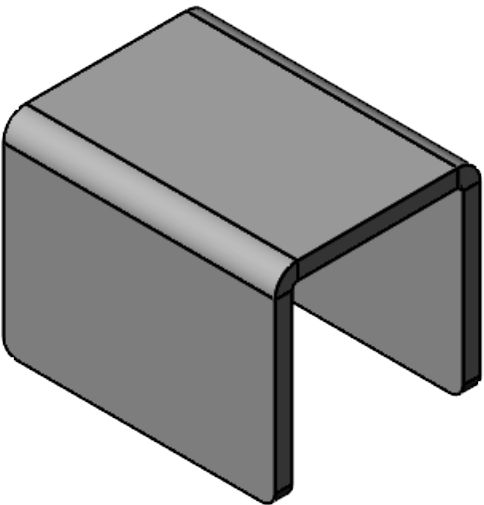
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	90720A510	18-8 SS HEAVY-DUTY RIVET NUT	1
2	Single Mounting Bracket	Mounting Bracket	1
3	90925A249	Torx Rounded Head Screws for Sheet Metal	2



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Report #:

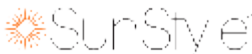
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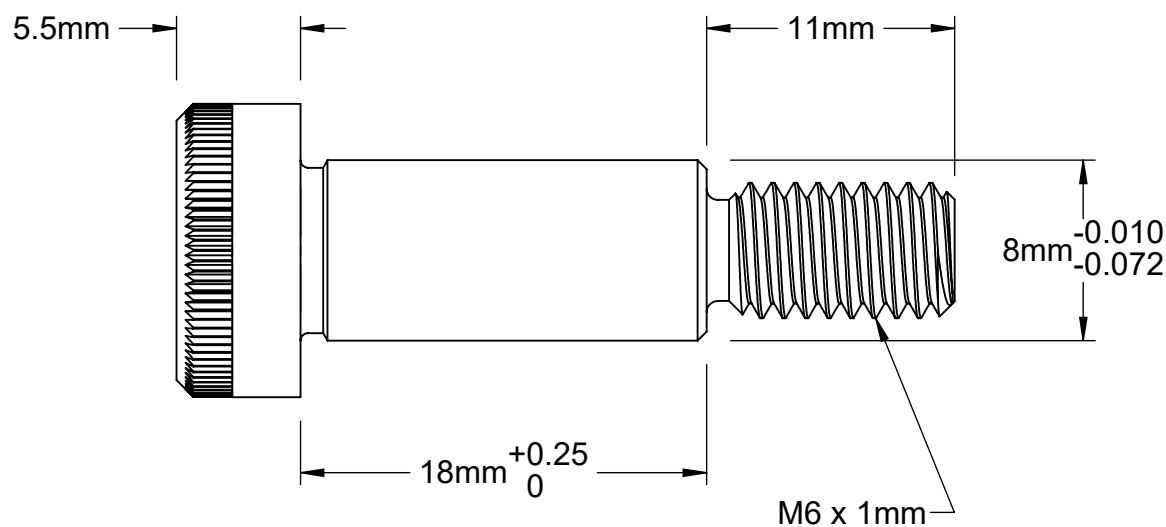
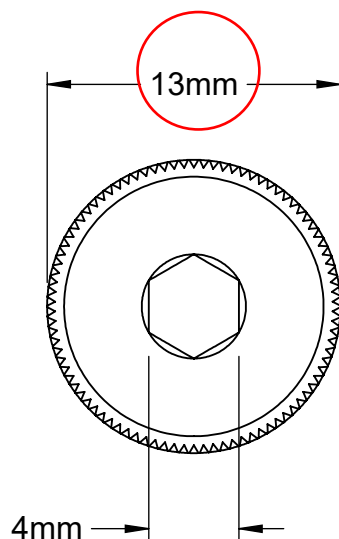
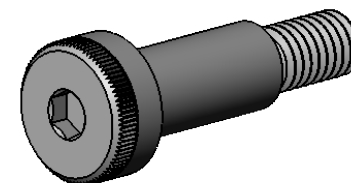
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12/15/2021

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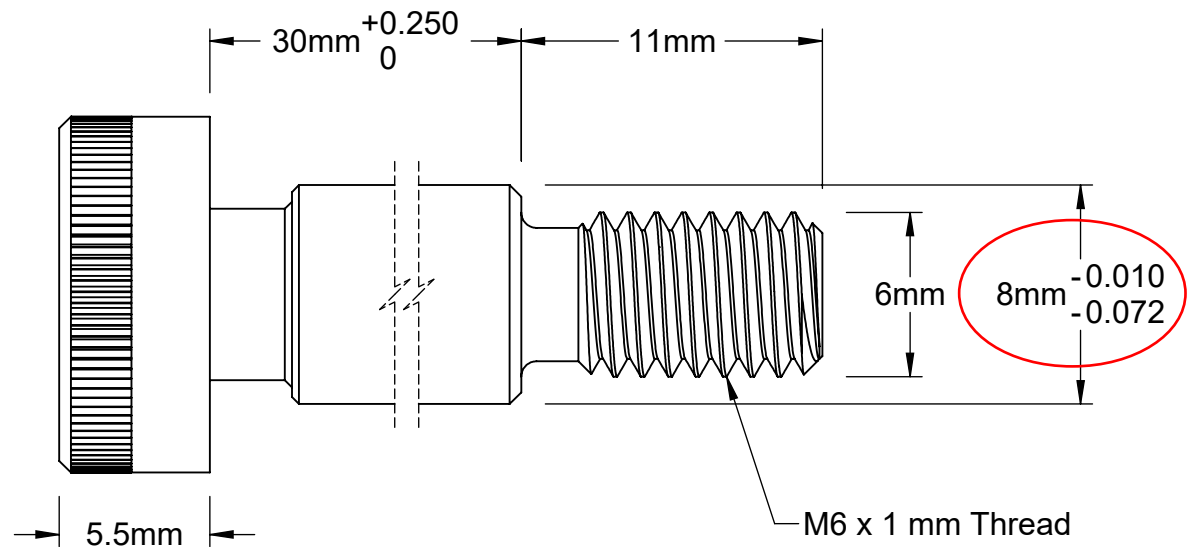
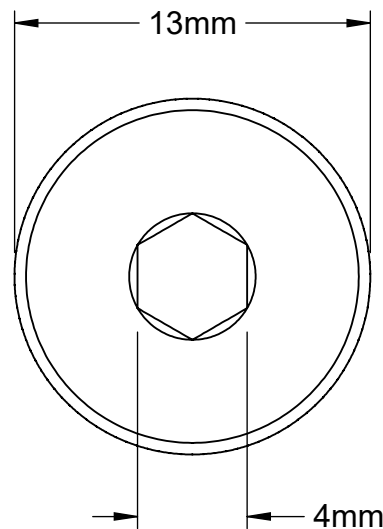
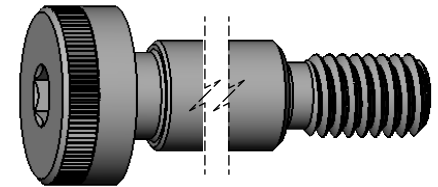
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Report #: M8039.01-109-44

Date: 12/15/2021

Verified by: *Andrew P. Mahabiet*

McMASTER-CARR 	PART NUMBER 90269A262
http://www.mcmaster.com © 2021 McMaster-Carr Supply Company Information in this drawing is provided for reference only.	316 Stainless Steel Shoulder Screw



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Report #: M8039.01-109-44

Date: 12/15/2021

Verified by: *Andrew P. Mehaluk*

McMASTER-CARR

PART NUMBER **90265A155**

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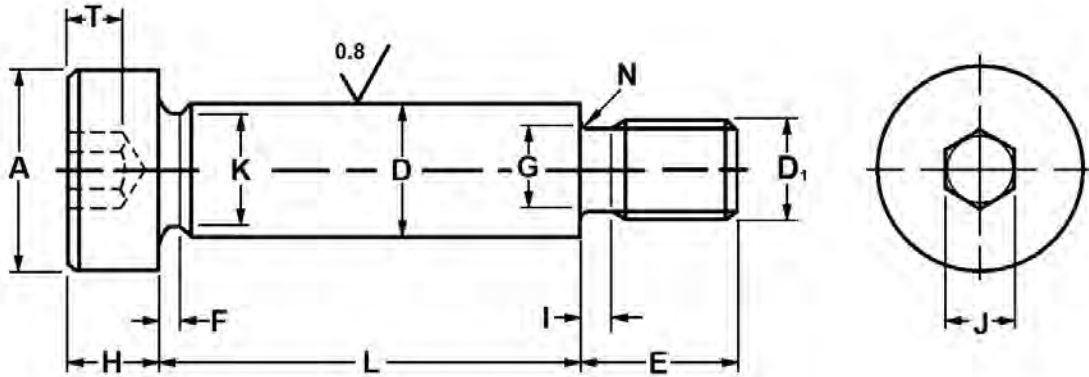
Information in this drawing is provided for reference only.

18-8 Stainless Steel
Shoulder Screw

Page 1 of 2	Fastenal Product Standard	REV-01
Date: May 30, 2019	FASTENAL	M.STRIP.7379.A2-70

Metric, Socket Head Shoulder Screw, (Stripper Bolt), ISO 7379, A2-70 Stainless Steel

This product standard contains the required dimensional, mechanical, performance, and chemical characteristics of the products shown in this purchase order (as applicable to the product). Unless specified below, current revisions of national or international standards shall be applicable as of the date of Fastenal's purchase order and must be adhered to in their entirety. If the order received does not meet these requirements, corrective action may be issued which could jeopardize your status as an approved supplier to Fastenal.



D			D1	p	E		A		K	G	
Nom.	Max.	Min.			Max.	Min.	Max.	Min.		Max.	Min.
4	3.990	3.960	M3	0.5	7.35	6.65	7.00	6.64	3.40	2.40	2.10
5	4.990	4.960	M4	0.7	8.35	7.65	9.00	8.64	4.40	3.10	2.80
6.0	5.990	5.951	M5	0.8	9.75	9.25	10.22	9.78	5.42	3.86	3.68
8	7.987	7.951	M6	1	11.25	10.75	13.27	12.73	7.42	4.58	4.40
10	9.987	9.951	M8	1.25	13.25	12.75	16.27	15.73	9.42	6.25	6.03
12	11.984	11.941	M10	1.5	16.40	15.60	18.27	17.73	11.42	7.91	7.69
16	15.984	15.941	M12	1.75	18.40	17.60	24.33	23.67	15.42	9.57	9.35
20	19.980	19.928	M16	2	22.40	21.60	30.33	29.67	19.42	13.33	12.96
25	24.980	24.928	M20	2.5	27.40	26.60	36.39	35.61	24.42	16.57	16.30

D	H		F	I	N	J			T
Nom.	Max.	Min.	Max.	Max.	Min.	Nom.	Max.	Min.	Min.
4	3.0	2.78	2.5	2.0	0.10	2	2.045	2.020	1.60
5	4.0	3.78	2.5	2.0	0.15	2.5	2.56	2.520	2.00
6.0	4.5	4.32	2.5	2.0	0.50	3	3.080	3.020	2.40
8	5.5	5.32	2.5	2.5	0.53	4	4.095	4.020	3.30
10	7.0	6.78	2.5	3.1	0.64	5	5.095	5.020	4.20
12	9.0	8.78	2.5	3.7	0.77	6	6.095	6.020	4.90
16	11.0	10.73	2.5	4.4	0.87	8	8.115	8.025	6.60
20	14.0	13.73	2.5	5.0	1.14	10	10.115	10.025	8.80
25	16.0	15.73	3.0	6.3	1.38	12	12.142	12.032	10.00
Shoulder length tolerance (L): -0 / + 0.25									

RECORD OF REVISION CHANGES TO THIS DOCUMENT ARE LOCATED ON THE LAST PAGE

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Report #: M8039.01-109-44

Date: 12/15/2021

Verified by:

Andrew P. Mahalik

Page 2 of 2	Fastenal Product Standard	REV-01
Date: May 30, 2019	FASTENAL	M.STRIP.7379.A2-70

Specification Requirements:

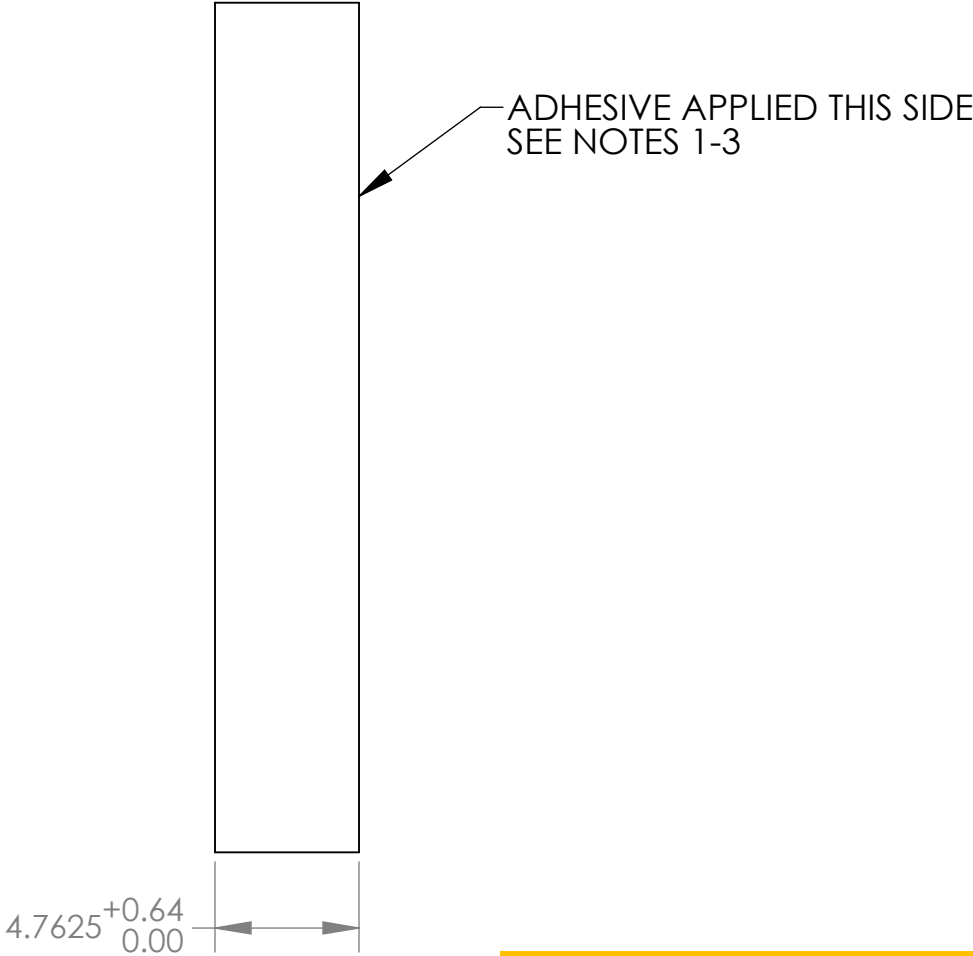
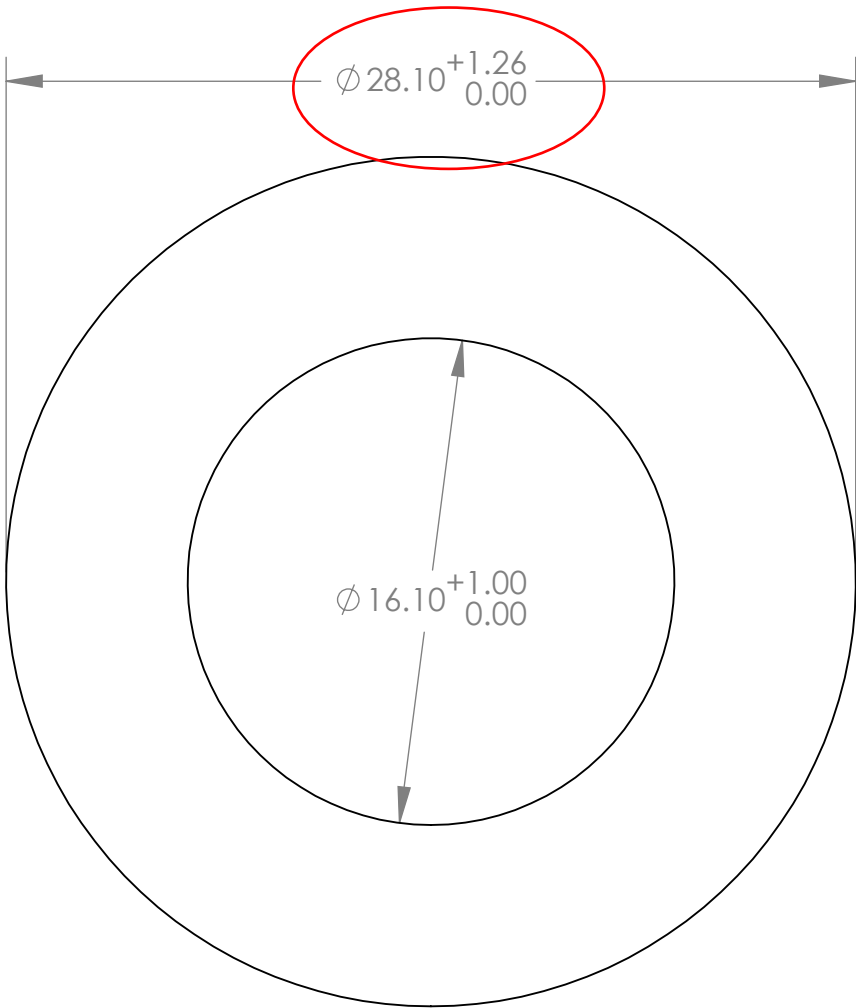
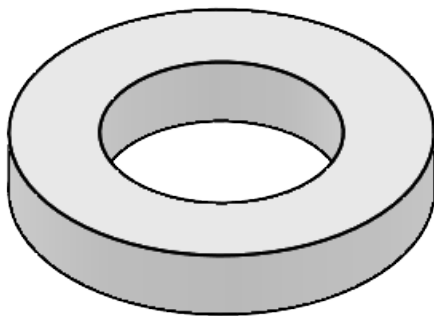
- Dimensions: Sizes 4 & 5: See Table Above.
Sizes 6.0 – 25: ISO 7379, except shoulder diameter
6.0 replaces 6.5 and 12 replaces 13.
- Material & Mechanical Properties: A2-70 Stainless Steel per ISO 3506-1;
Tensile strength based on the neck diameter behind the threads.
- Threads: 5g6g
- Finish: Per ASTM A380/A380M

Revision Level Changes to this Document

Document Name	Revision Level	Revision Date	Rationale for Revision
M.STRIP.A2-70	01	12/18/2018	Revised dimensional table value.
M.STRIP.A2-70	02	2/20/2019	Revised image and dimensional table.
M.STRIP.7379.A2-70	00	5/16/2019	Revised title and mechanical requirement.
M.STRIP.7379.A2-70	01	5/30/2019	Fixed typo in dimensional table.

The rationale above may not include all of the changes within each revision. A complete review of the Fastenal Product Standard is required.

 Total Quality. Assured.	Report #:	M8039.01-109-44
	Date:	12/15/2021
	Verified by:	

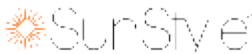


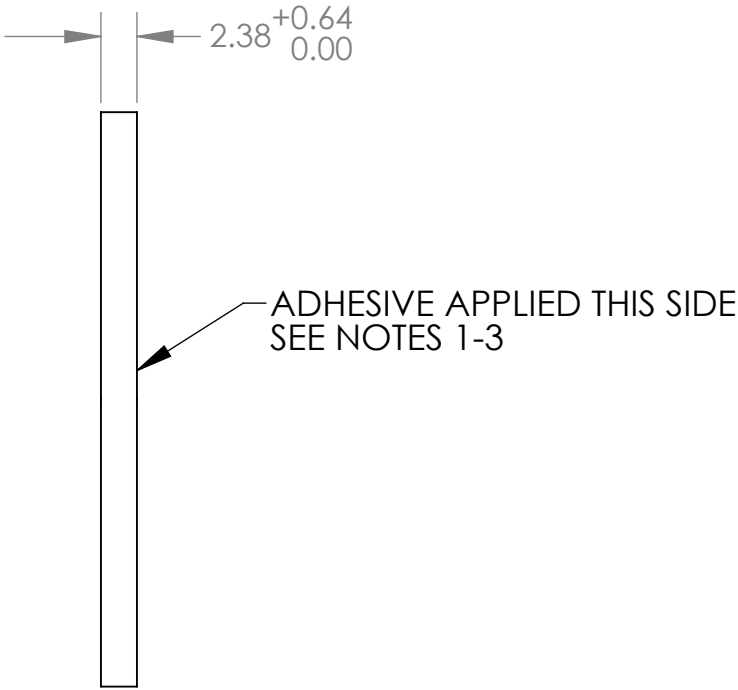
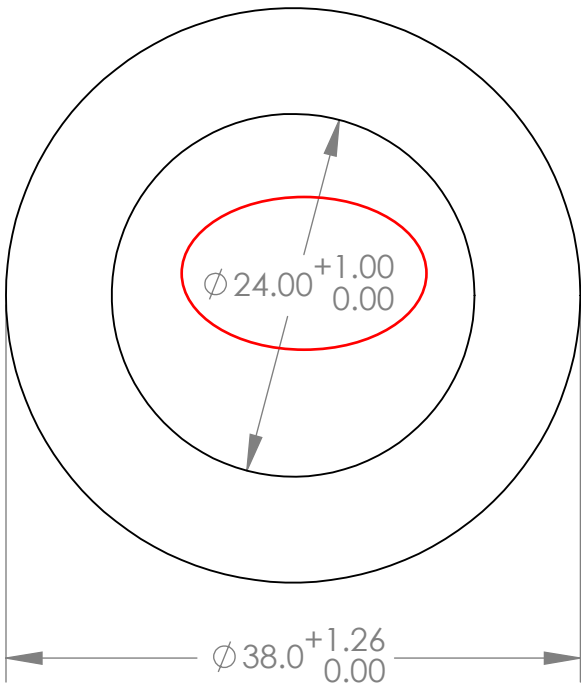
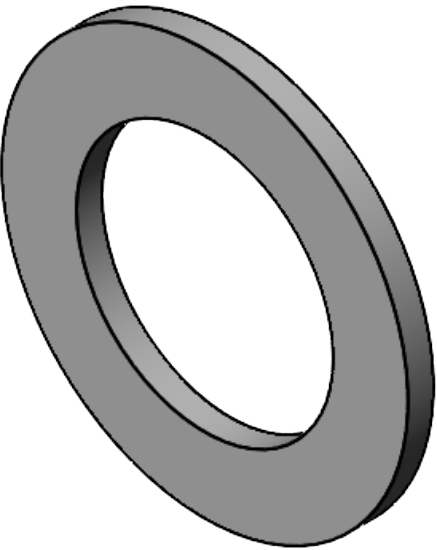
NOTES:

1. ADHESIVE SHALL BE 3M 5935 TAPE, ACCEPTABLE ALTERNATE IS 3M 5915 TAPE
2. ADHESIVE TAPE TOTAL THICKNESS SHALL BE .016"
3. REMOVABLE PROTECTIVE BACKING SHALL BE APPLIED OVER ADHESIVE



Report #: M8039.01-109-44
Date: 12/15/2021
Verified by: *Andrew P. Mehalick*

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN MILLIMETERS TOLERANCES ARE: DECIMALS ANGLES X.X ± .3 X ± 1 X.XX ± .15 X.X ± .5		CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE		 SUNSTYLE USA 250 Alice St Wheeling, IL 60090 3D FILE NAME: 4mm Shingle S1 & S2 Disc	
		APPROVALS			
		DRAWN	DI	XX.XX.XX	
		CHECKED	---	XX.XX.XX	
MATERIAL	EPDM Shore 60A	RESP ENG	---	XX.XX.XX	SIZE B
FINISH	Black	MFG ENG	---	XX.XX.XX	
DO NOT SCALE DRAWING		QUAL ENG	---	XX.XX.XX	
		SCALE 2:1		DWG. FILE NAME: 600000	
				REV. A	
				SHEET 1 OF 1	

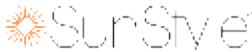


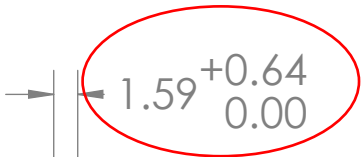
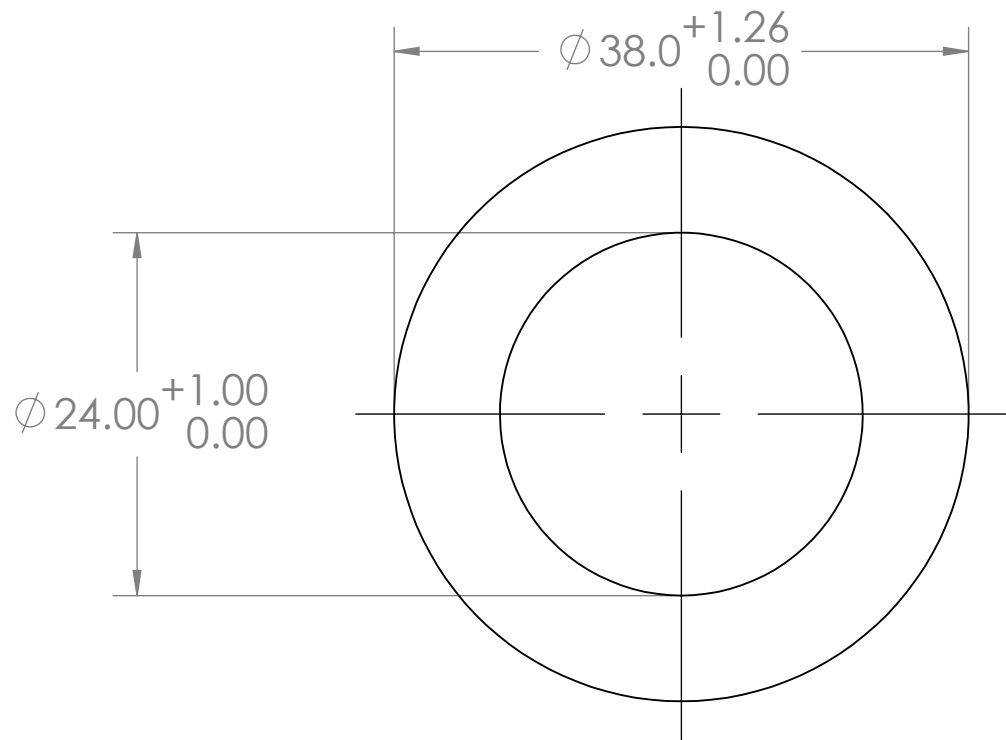
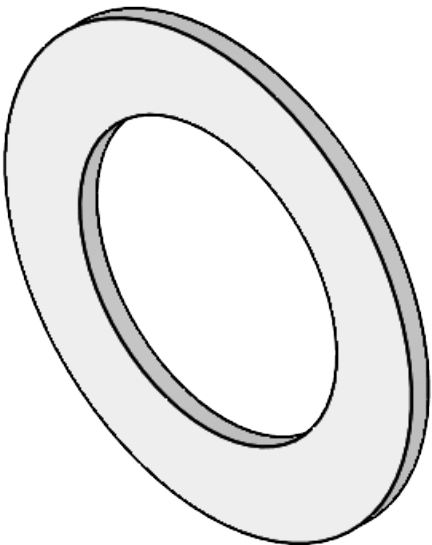
NOTES:

1. ADHESIVE SHALL BE 3M 5935 TAPE OR 3M 5915 TAPE
2. ADHESIVE TAPE TOTAL THICKNESS SHALL BE .016"
3. REMOVABLE PROTECTIVE BACKING SHALL BE APPLIED OVER ADHESIVE



Report #: M8039.01-109-44
Date: 12/15/2021
Verified by: *Andrew P. Mahabadi*

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN MILLIMETERS TOLERANCES ARE: DECIMALS ANGLES X.X ± .3 X ± 1 X.XX ± .15 X.X ± .5		CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE		 SUNSTYLE USA 250 Alice St Wheeling, IL 60090 3D FILE NAME: 4mm Shingle S3 & S4 Disc	
		APPROVALS			
		DRAWN		DI	XX.XX.XX
		CHECKED		---	XX.XX.XX
MATERIAL	EPDM 60A	RESP ENG		XX.XX.XX	
FINISH	Black	MFG ENG		XX.XX.XX	
DO NOT SCALE DRAWING		QUAL ENG		XX.XX.XX	
SCALE 2:1		DWG. FILE NAME:		600001	REV. A
SCALE 2:1				SHEET 1 OF 1	



ADHESIVE ON THIS FACE (SEE NOTES 1-3)

NOTES:

- 1. ADHESIVE SHALL BE 3M 5935 TAPE OR 3M 5915 TAPE
- 2. ADHESIVE TAPE TOTAL THICKNESS SHALL BE .016"
- 3. REMOVABLE PROTECTIVE BACKING SHALL BE APPLIED OVER ADHESIVE



Report #:

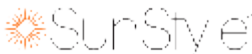
M8039.01-109-44

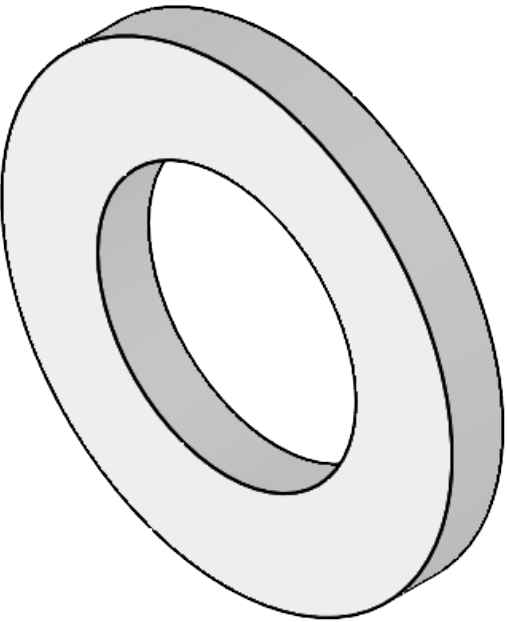
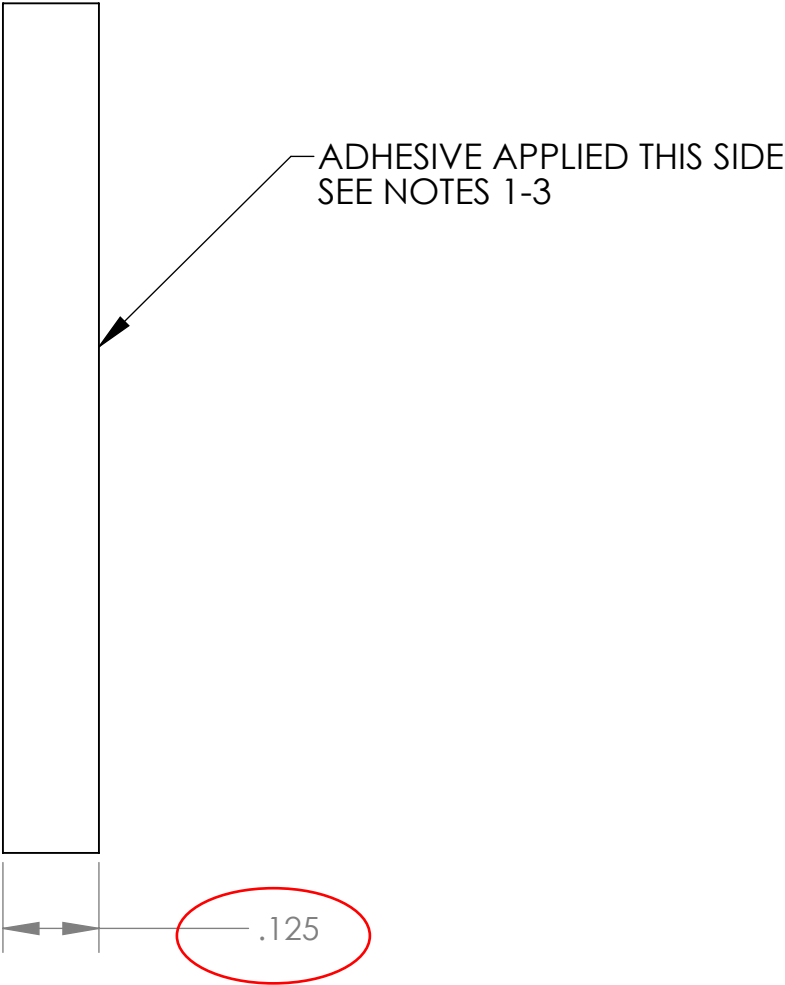
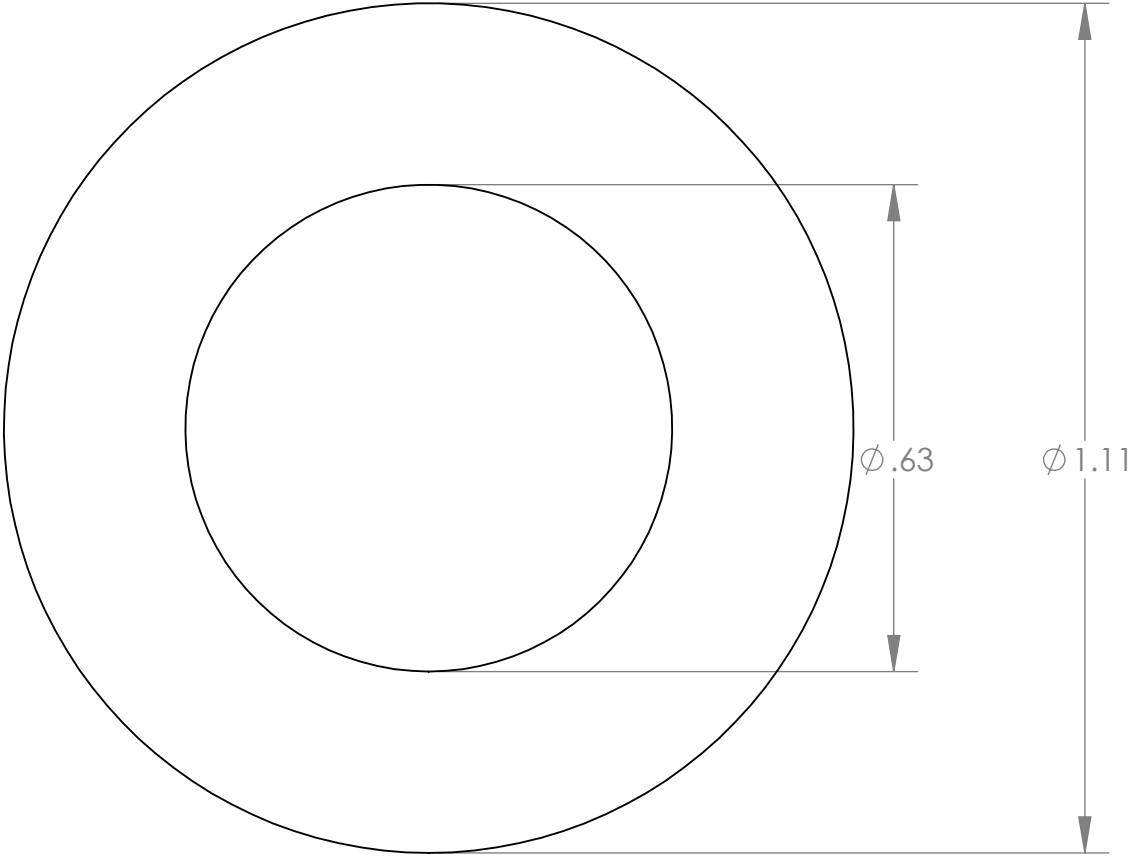
Date:

12/15/2021

Verified by:



UNLESS OTHERWISE SPECIFIED DIMENSIONS IN MILLIMETERS TOLERANCES ARE: DECIMALS ANGLES X.X ± .3 X ± 1 X.XX ± .15 X.X ± .5		CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE		 SUNSTYLE USA 250 Alice St Wheeling, IL 60090		
		APPROVALS				
		DRAWN	DI	XX.XX.XX		
		CHECKED	---	XX.XX.XX		
MATERIAL	EPDM 60A	RESP ENG	---	XX.XX.XX	3D FILE NAME: Shingle S3 Disc	
FINISH	Black	MFG ENG	---	XX.XX.XX		
DO NOT SCALE DRAWING		QUAL ENG	---	XX.XX.XX		
		SCALE 4:1		DWG. FILE NAME: 600004		
				REV. A		
				SHEET 1 OF 1		



NOTES:

1. ADHESIVE SHALL BE 3M 5935 TAPE
2. ADHESIVE TAPE TOTAL THICKNESS SHALL BE .016"
3. REMOVABLE PROTECTIVE BACKING SHALL BE APPLIED OVER ADHESIVE



Report #:

M8039.01-109-44

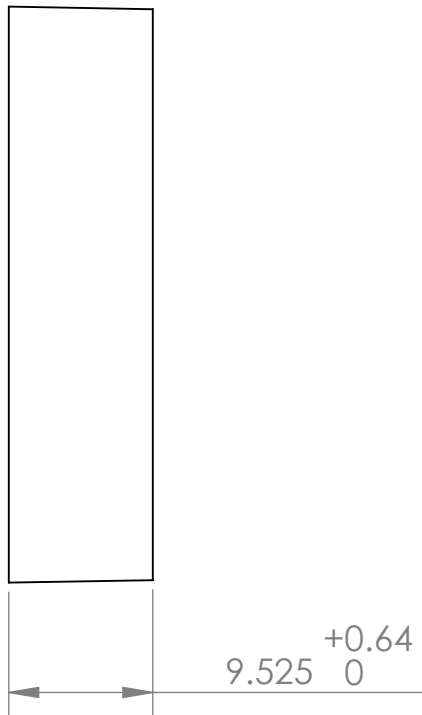
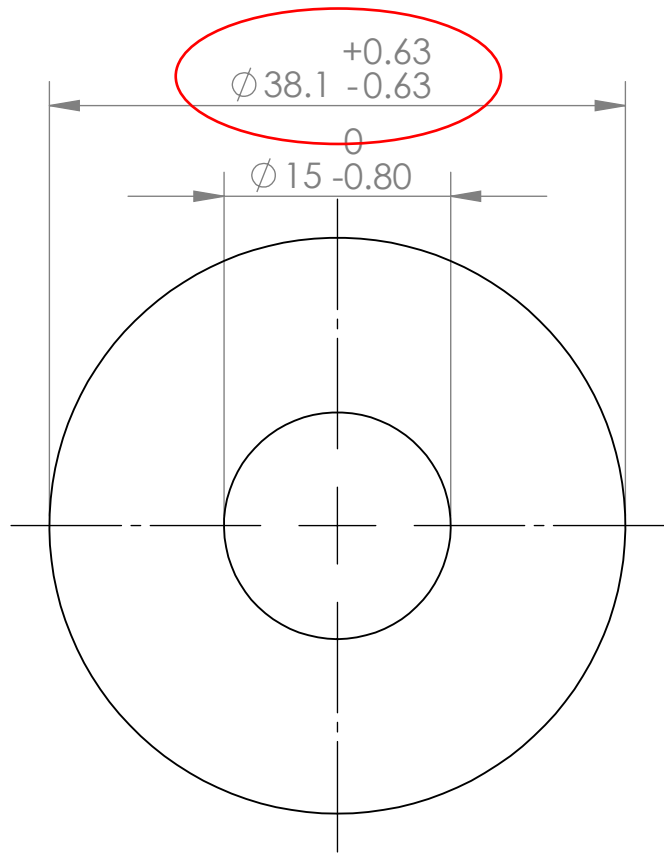
Date:

12/15/2021

Verified by:

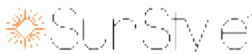


UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES ARE: DECIMALS ANGLES X.X ± .05 X ± 1 X.XX ± .02 X.X ± .5 X.XXX ± .005		CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE		 SUNSTYLE USA 250 Alice St Wheeling, IL 60090	
		APPROVALS	DATE		
MATERIAL	EPDM 60A	DRAWN	DI	XX.XX.XX	3D FILE NAME: 6mm Shingle S1 Disc
		CHECKED	---	XX.XX.XX	
		RESP ENG	---	XX.XX.XX	
		MFG ENG	---	XX.XX.XX	
FINISH	Black	QUAL ENG	---	XX.XX.XX	SIZE B
DO NOT SCALE DRAWING		SCALE 2:1		DWG. FILE NAME: 6mm Shingle S1 Disc	
				REV.	
				SHEET 1 OF 1	

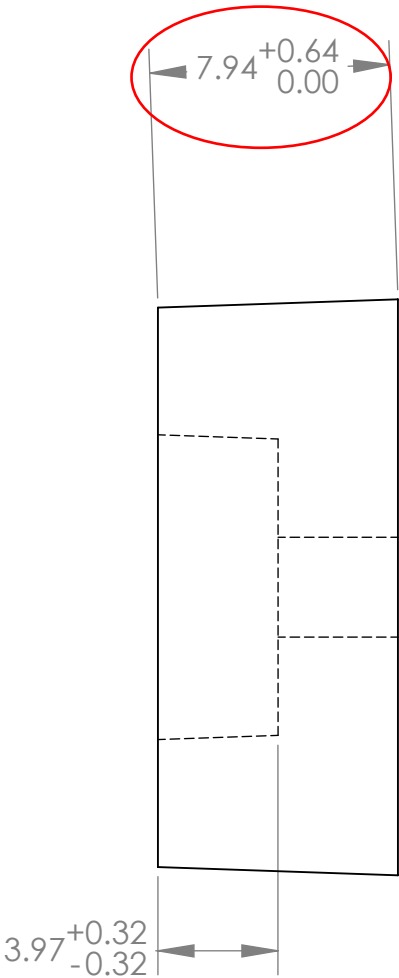
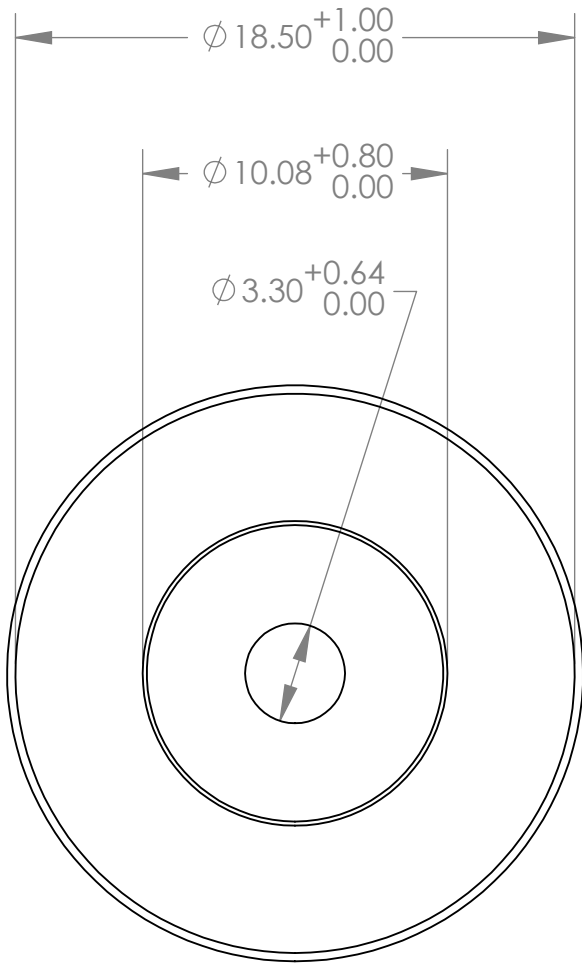
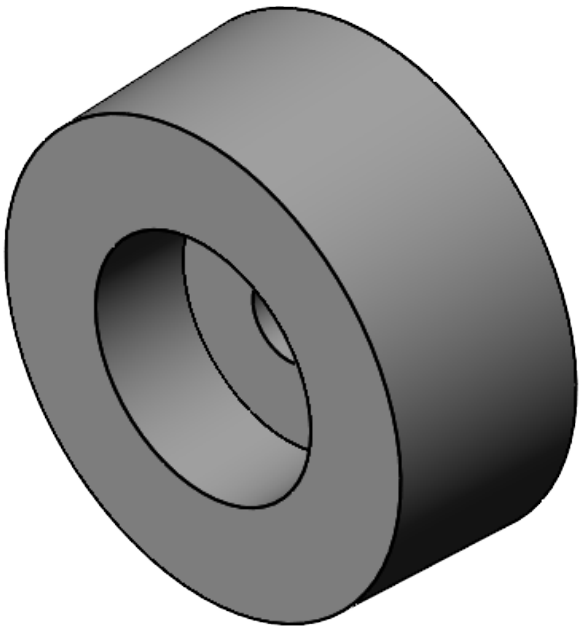




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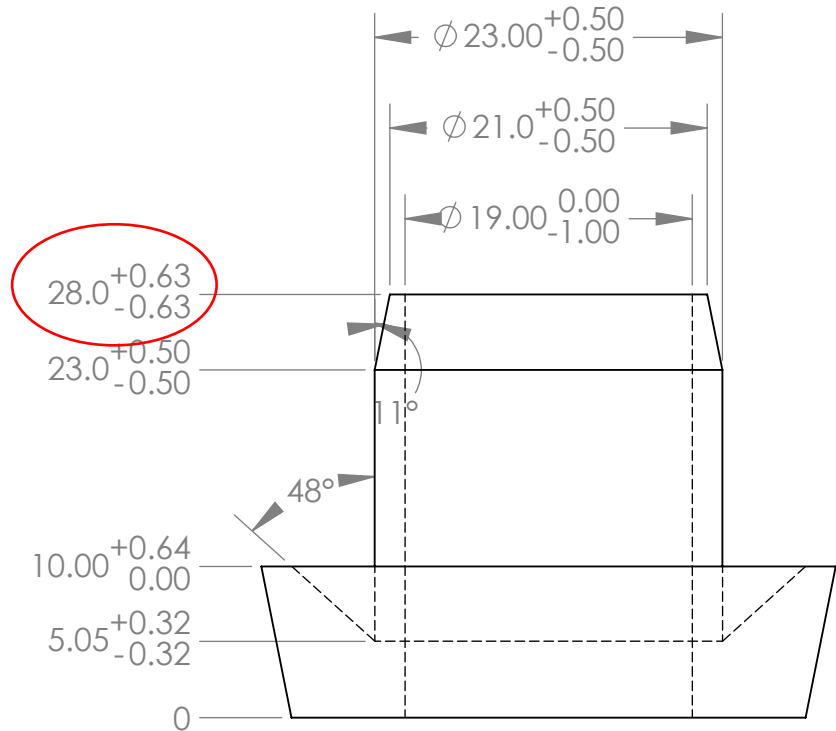
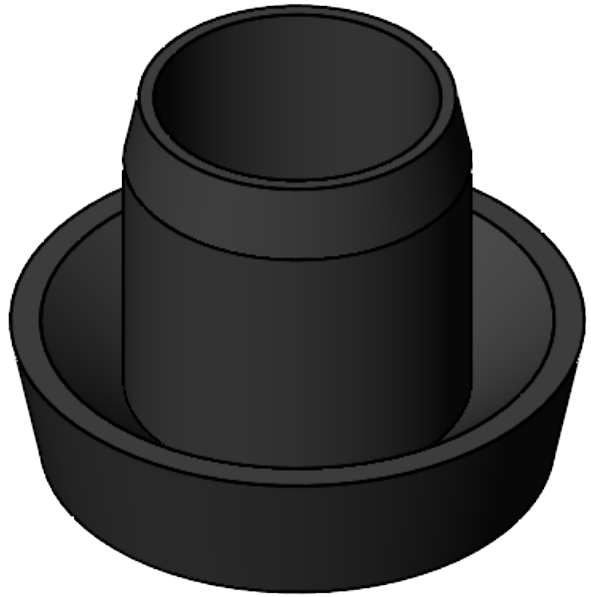
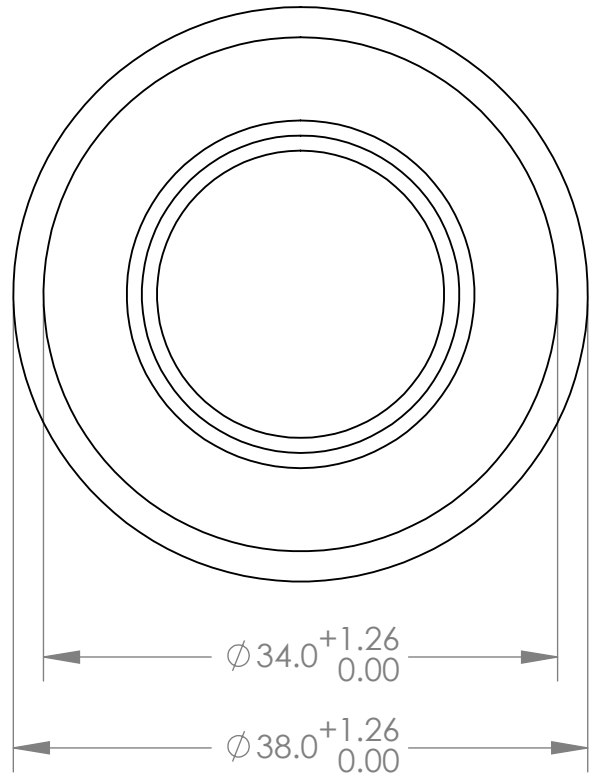
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		APPROVALS DATE			
		DRAWN DI	XX.XX.XX		
		CHECKED ---	XX.XX.XX		
MATERIAL EPDM Shore 60A	RESP ENG ---	XX.XX.XX	3D FILE NAME: Shingle Mount - Single Shingle		
FINISH Black	MFG ENG ---	XX.XX.XX	SIZE B	DWG. FILE NAME: 600026	REV. A
DO NOT SCALE DRAWING	QUAL ENG ---	XX.XX.XX	SCALE 2:1		SHEET 1 OF 1

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Date: 12/15/2021
Verified by: *Andrew P. Mahabadi*

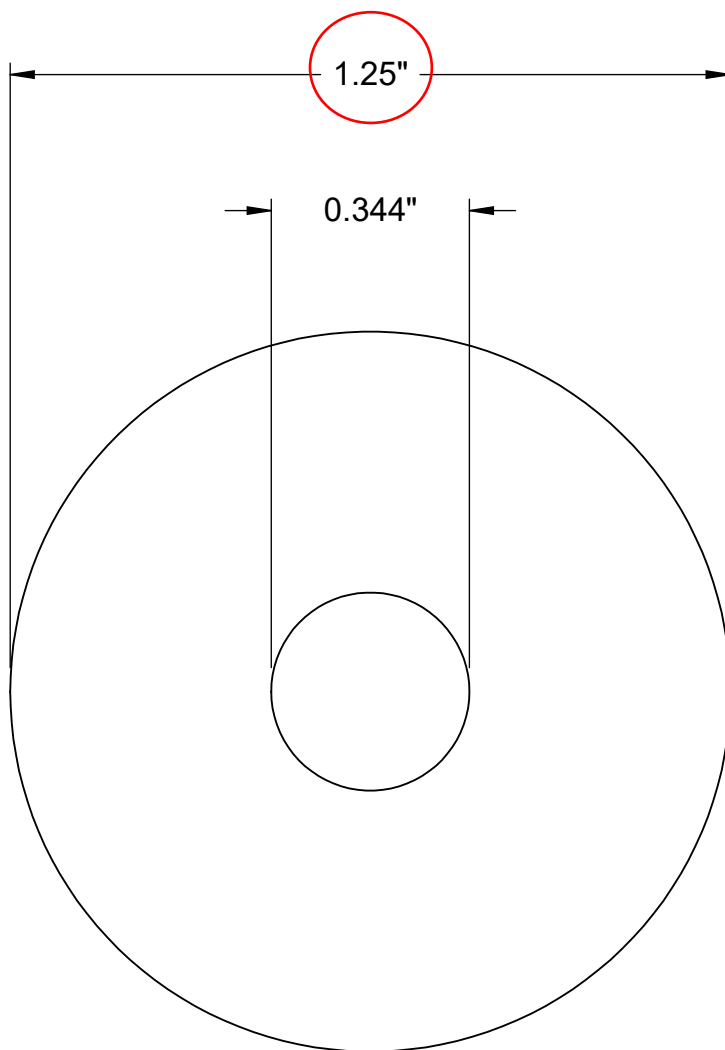
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN MILLIMETERS TOLERANCES ARE: DECIMALS ANGLES X.X ± .3 X ± 1 X.XX ± .15 X.X ± .5		CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE		DESIGN INTEGRITY 1528 W. ADAMS STREET CHICAGO, IL 60607 312.942.0602		
MATERIAL EPDM Shore 60A FINISH Black DO NOT SCALE DRAWING		APPROVALS		DATE		
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		CHECKED				
		RESP ENG				
		MFG ENG				
		QUAL ENG				
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				SHEET 1 OF 1		



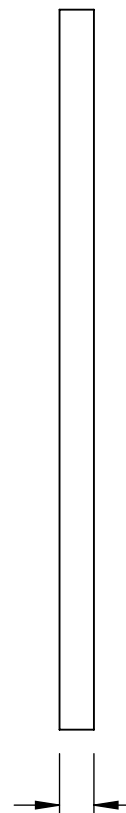
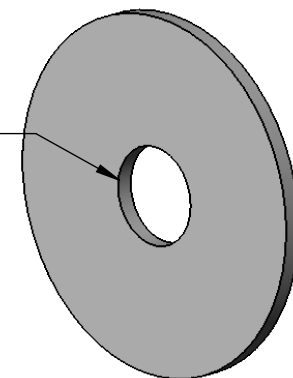


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UNLESS OTHERWISE SPECIFIED DIMENSIONS IN MILLIMETERS TOLERANCES ARE: DECIMALS ANGLES X.X ± .3 X ± 1 X.XX ± .15 X.X ± .5		CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE		 SUNSTYLE USA 250 Alice St Wheeling, IL 60090		
		APPROVALS				
		DRAWN	DI	XX.XX.XX		
MATERIAL EPDM Shore 60A	CHECKED	---		3D FILE NAME:		
	---	XX.XX.XX		Shingle Mount - Two Shingles		
	RESP ENG	---		SIZE B		
	---	XX.XX.XX		DWG. FILE NAME:		
FINISH	MFG ENG	---		600024		
Black	---	XX.XX.XX		REV. A		
	QUAL ENG	---		SCALE 2:1		
DO NOT SCALE DRAWING		XX.XX.XX		SHEET 1 OF 1		



For 5/16"
Screw Size



Washer may vary from
0.04" to 0.06" in thickness.

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Date: 12/15/2021

Verified by: *Andrew P. Mehalick*

McMASTER-CARR 

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Information in this drawing is provided for reference only.

PART NUMBER **90377A164**

Black-Oxide 18-8
Stainless Steel Washer

Exterior Corrosion-Resistant

BTX

STRUCTURAL WOOD SCREW



Star Drive



Flat Head

- Bronze Coating
- Star Drive
- Type 17 Point

ACQ
COMPATIBLE



Scan this code for
the Technical
Evaluation Report
TER 1911-01



AVAILABLE SIZES • #8 x 3/4" to #14 x 8"

Available drive & shank sizes
for any wood construction job:

- ▶ T20 (#8 / 0.119 in)
- ▶ T25 (#9 / 0.135 in)
- ▶ T25 (#10 / 0.151 in)
- ▶ T30 (#14 / 0.169 in)



Compatible with treated lumber, but areas within one mile of saltwater, near swimming pools, exposure to corrosive chemicals, or other areas where corrosion is more likely to occur, such as livestock confinement, use the proper size, grade and type of Big Timber Stainless Steel Fasteners. Big Timber Stainless Steel Fasteners should be considered if available. Stainless available as STX.



BENEFITS & FEATURES:

- Heat-treated hardened steel for high tensile strength and high shear strength
- Triple Layer ACQ Compatible Bronze Coating for Exterior or Interior use
- Deep Six-Lobe Star Drive Recess reduces cam-out end load
- Handles 2X the torque as Phillips or Square Drive while extending the life of the bit
- Under-head cutting nibs to aid in self countersinking
- Aggressive knurl enlarges hole to reduce splitting and drag to help draw lumber together
- V-Cut notches on threads to cut fibers for easier insertion at lower torque
- Type-17 tip for faster precise starts which eliminate "walking"
- Provides easier insertion without pre-drilling
- Aggressive thread for great withdrawal strength
- Structural Wood Screw - backed by certified independent testing (TER 1911-01)
- International Building Code and International Residential Code Compliant



COMMON USES INCLUDE:

- Exterior and Interior Wood Framing
- Decks, Rails, Porches, Walls, Floors, Lateral Bracing, Fencing, Siding and Roofing
- Laminating Beams, Girders, and Posts
- Concrete Forms
- General Construction, Remodeling, and Repair

NOTE: Always follow lumber manufacturer's recommendations.

BigTimberFasteners.com
1-800-726-4803

BILLINGS, MT
since 1945

Exterior Corrosion-Resistant

CAB

LOW PROFILE CABINET SCREW



Star Drive



Round
Washer Head

- Exterior Coating
- Star Drive
- Type 17 Point

ACQ
COMPATIBLE



BENEFITS & FEATURES:

- Heat-treated hardened steel for high tensile and high shear strength
- Triple Layer ACQ Compatible Bronze Coating for Exterior or Interior use
 - ▶ Also available in:
 - ACQ Compatible White Coating
 - ACQ Compatible Bronze Coating
 - ACQ Compatible Ruspert Coating in an attractive matte black finish
- Deep Six-Lobe Star Drive Recess reduces cam-out end load
- Handles 2X the torque as Phillips or Square Drive while extending the life of the bit
- Round Washer Head versatile for both interior and exterior applications and increased pull through strength
- V-Cut notches on threads to cut fibers for easier insertion at lower torque
- Type 17 tip for faster precise starts which eliminate "walking"
 - ▶ Provides for easy insertion without pre-drilling
- Backed by certified independent testing

COMMON USES INCLUDE:

- Cabinetry
- Furniture
- Windows
- Siding & Trim
- General Construction Projects

NOTE: Always follow lumber manufacturer's recommendations.

AVAILABLE SIZES • #8 x 1-1/4" to #10 x 3"

Available Drive and Shank Sizes:

- ▶ T20 (#8 / 0.119 in)
- ▶ T25 (#10 / 0.145 in)



Diameter / Drive	Length
0.119" / T20	1 1/4"
0.145" / T25	3"



BigTimberFasteners.com
1-800-726-4803

BILLINGS, MT
since 1945

Compatible with treated lumber, but areas within one mile of saltwater, near swimming pools, exposure to corrosive chemicals, or other areas where corrosion is more likely to occur, such as livestock confinement, using the proper size, grade and type of Big Timber Stainless Steel Fasteners should be considered if available. CAB is not available in stainless steel.

NOTES:

1. MATERIAL: C1280CM, EPDM- SPONGE, MEDIUM DENSITY, BLACK; SEE BOM
2. CROSS SECTION AREA: .126 IN².
3.  DENOTES CRITICAL DIMS.
4.  DENOTES PROCESS DIMS.
5. () DENOTES REFERENCE DIMS.
6. DIE REFERENCE : 2337.
7.  THIS SURFACE MAY RANGE FROM FLAT THRU 6% CONVEXITY.
8.  TAPE CENTERED ON PART, APPROXIMATELY AS SHOWN.
9. PART MUST MEET 2" RADIUS PER Q.A GAUGE X2337-1 & X2337-2 WITHOUT KINKING AFTER TAPE APPLICATION.

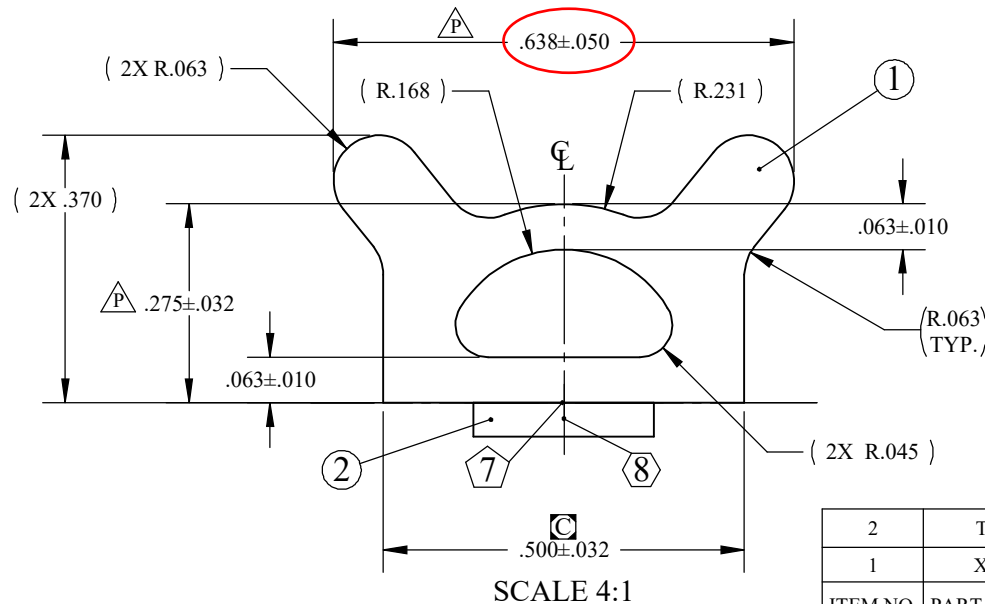
REV.	DESCRIPTION	DATE	ECO	APPROVED
A	PRODUCTION RELEASE.	7/13/07	-	KS
A1	IS: .370 ±.032 CRITICAL DIM; WAS: .370 ±.032 PROCESS DIM	7/23/07		KS
B	CHANGE PER ECO	2/6/08	0657	WL
C	CHANGE PER MARK PRINT AND ECO	4/28/08	0695	KS
D	IS: X2337(S), WAS: X2373BT; UPDATED BOM : ADDED (S) CHART: ADDED 1/4" HT TAPE; REMOVED NOTE 7: CUSTOMER NAME; REVISED NOTES TO MATCH SCHEMATS: (2X R.063), WAS: 2X R.063; IS: (R.231), WAS: R.231; IS: (R.168), WAS: R.168; IS: (R.163 TYP.); WAS: R.163 TYP.; IS: .063 ±.010; WAS: .063 ±.010, WAS: .063 MAT'L THK.	4/27/12	1219	KS



Report #: M8039.01-109-44

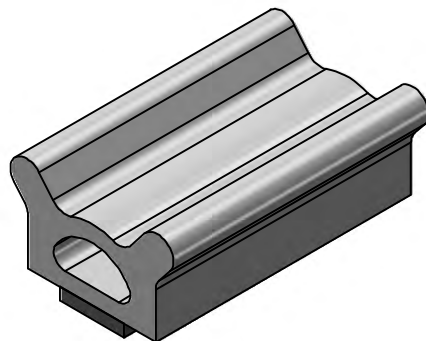
Date: 12/15/2021

Verified by: 



(S) SUFFIX OPTION CHART (2)		
(S)	SIZE	PART NUMBER
BT	1/4"	DT2051
HT	1/4"	DT2071
		NO TAPE

2	TAPE	SEE (S) SUFFIX OPTION CHART	1
1	X2337	HATCH SEAL ON BASS BOAT	1
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.



RUBBER SPONGE
UNLESS OTHERWISE SPECIFIED, PRECISION RUBBER EXTRUSION TOLERANCES PER RMA-392, CLASS 2 ARE:
.020"-.050": ±.010"
.051"-.125": ±.020"
.126"-.500": ±.032"
.501"-1.00": ±.050"
1.001"-2.000": ±.080"
2.001"-3.150": ±.125"
3.151" & OVER: MULT. BY ±.080"



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PHONE (714) 562-0500

DIMENSIONS ARE IN INCHES.

CREATED: TT 7/13/07

CHECKED: KS 7/13/07

HATCH SEAL ON BASS BOAT.

X2337(S)

REV. D

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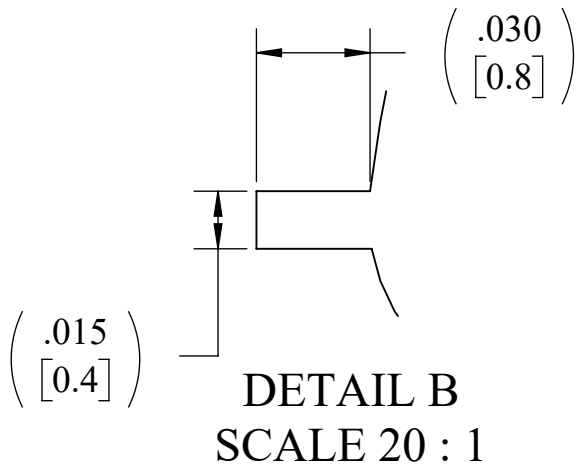
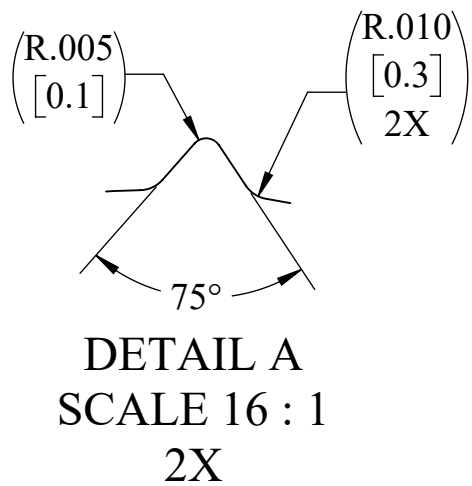
MFGR/ DATE:

NOTES:

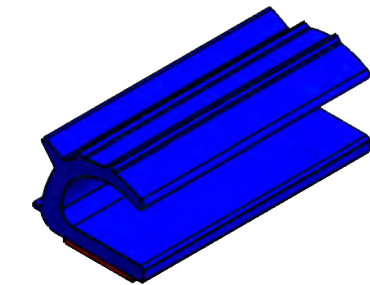
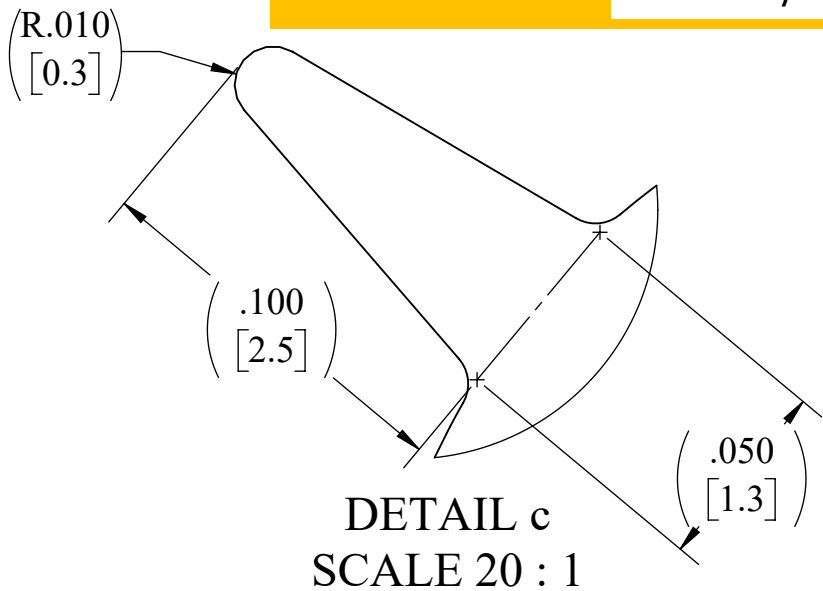
1. MATERIAL: EPDM-DENSE, 55±5 SHORE A, BLACK; SEE BOM.
2. CROSS SECTIONAL AREA : ITEM 1 : .0472 IN².
3.  DENOTES CRITICAL DIMS.
4.  DENOTES PROCESS DIMS.
5. () DENOTES REFERENCE DIMS.
6. DIE REFERENCE : 2939.
7. TAPE CENTERED ON PART, APPROXIMATELY AS SHOWN.
8. DATUM A: FOR FA INSPECTION ONLY

(S) SUFFIX OPTION CHART ②	
(S)	PART NO.
T	1/4", TAPE HATS 3M 5935
	NO TAPE

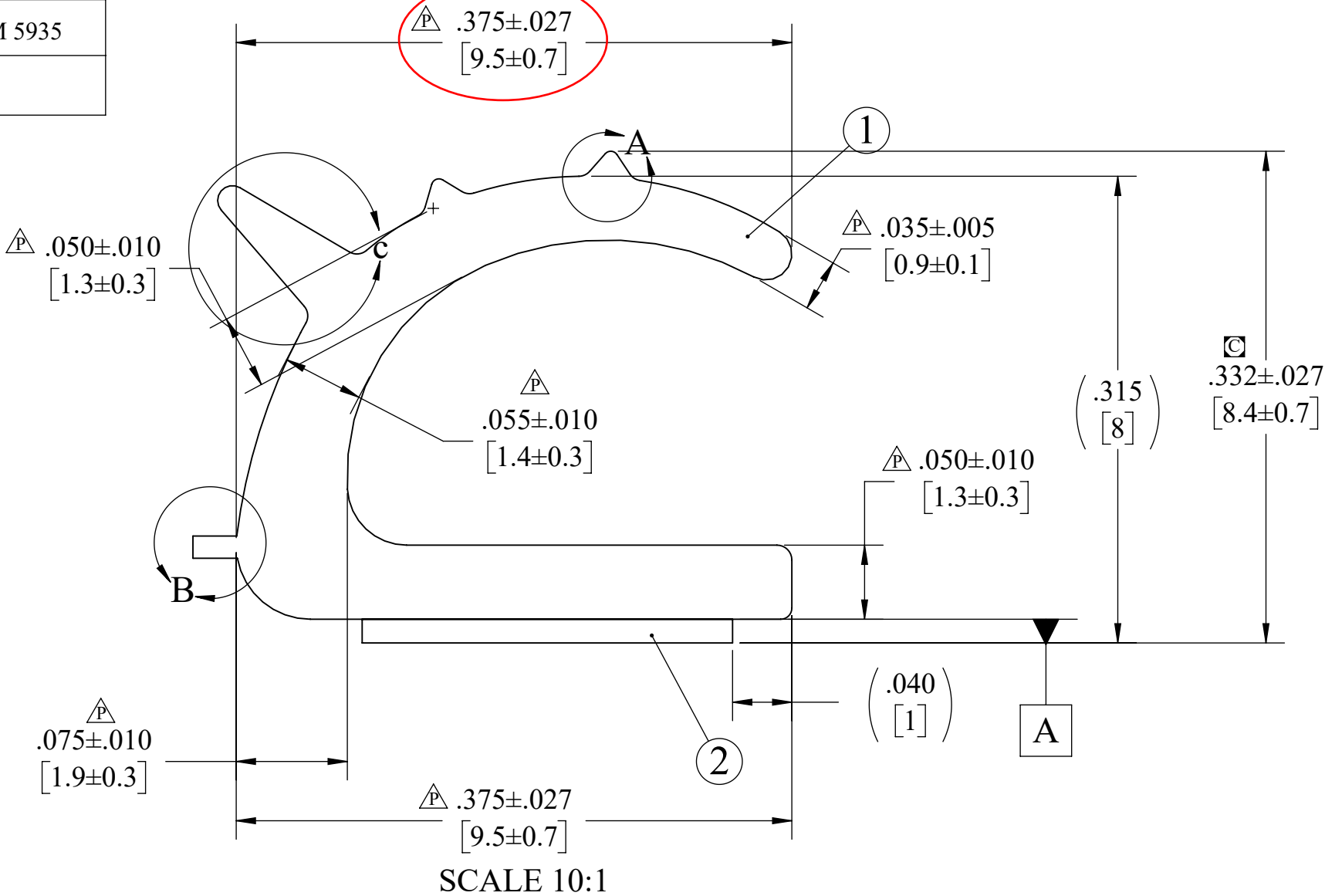
REV.	DESCRIPTION	DATE	ECO	ECO BY	APPROVED
RD01	INITIATED R&D DRAWING; REF. CUST. SOLID MODEL (SW): 870 FROM 900 MOUNTED ASSEMBLY 6-2-21	6/29/21			KS
RD02	REVISED PER CUST. REQUEST: ADDED FLAP; REVISED NOTE2: IS : .0472 IN ² , WAS: .0434 IN ²	7/30/21			KS



Report #: M8039.01-109-44
Date: 12/15/2021
Verified by: *Andrew P. Mehalick*



SHIPPED SINGLE STRAND



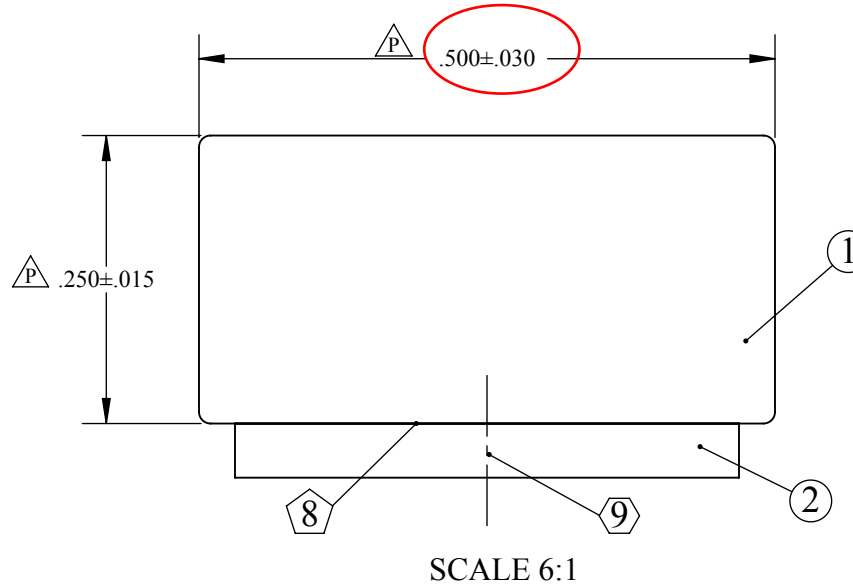
2	TAPE	SEE (S) SUFFIX OPTION CHART		1
1	X2939	SOLAR SEAL		1
ITEM NO.	PART NO.	DESCRIPTION		QTY.
	NAME	DATE	 A PERFECT SEAL IN A SNAP! 6855 HERMOSA CIRCLE BUENA PARK CA 90622 PHONE (714) 502-0500	
DRAWN	TT	6/29/21		
CHECKED	KS	6/29/21		
ENG APPR.				
MFG APPR.				
Q.A.				
COMMENTS:			TITLE:	
			SOLAR SEAL	
			X2939(S) SALES	
			REV	
			RD02	

RUBBER DENSE	
UNLESS OTHERWISE SPECIFIED, PRECISION RUBBER EXTRUSION TOLERANCES PER ARPM MO-1	
(2015) E2 ARE:	
.000"-.060": ±.010"	
.061"-.100": ±.014"	
.101"-.160": ±.016"	
.161"-.250": ±.020"	
.251"-.390": ±.027"	
.391"-.630": ±.031"	
.631"-.980": ±.039"	
.981"-1.57": ±.051"	
1.571"-2.48": ±.063"	
2.481"-3.94": ±.079"	

NOTES:

1. MATERIAL: EPDM-SPONGE, MEDIUM DENSITY, SEE BOM
2. CROSS SECTIONAL AREA : .125 IN²
3.  DENOTES CRITICAL DIMS.
4.  DENOTES PROCESS DIMS.
5. () DENOTES REFERENCE DIMS.
6. DIE REFERENCE : 1372.
7. PART WILL RUN DUAL STRAND (SEPARATE)
8.  THIS SURFACE MAY RANGE FROM FLAT THRU 6% CONVEXITY.
9.  TAPE CENTERED ON PART, APPROXIMATELY AS SHOWN.

REV.	DESCRIPTION	DATE	ECO	APPROVED
H	UPDATED TO IDEAS	2/18/04		100103-1
I	REDRAWN INTO SW	8/30/12	1264	KS
J	UPDATED NOTE 7; PART WILL RUN DUAL STRAND (SEPARATE)	6/10/15	1550	KS



(P) PREFIX OPTION CHART ①

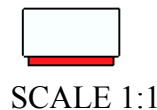
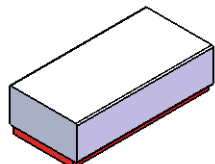
(P)	COLOR	MATERIAL NUMBER
X	BLACK	C1280CM
OW	OFF-WHT	C1249CM

(S) SUFFIX OPTION CHART ②

(S)	SIZE	PART NUMBER
BT	7/16"	DT2054
HT	7/16"	DT2074
HTR	7/16"	DT2064
		NO TAPE

intertek
Total Quality. Assured.

Report #: M8039.01-109-44
Date: 12/15/2021
Verified by: *Andrew P. Mahabadi*



SCALE 1:1

RUBBER SPONGE
UNLESS OTHERWISE SPECIFIED, PRECISION RUBBER EXTRUSION TOLERANCES PER RMA-392, CLASS 2 ARE:
.020"-.050": ±.010"
.051"-.125": ±.020"
.126"-.500": ±.032"
.501"-1.00": ±.050"
1.001"-2.000": ±.080"
2.001"-3.150": ±.125"
3.151" & OVER: MULT. BY ±.080"

2	TAPE	SEE (S) SUFFIX OPTION CHART	1
1	272	SEE (P) PREFIX OPTION CHART	1
ITEM NO.	PART NO.	DESCRIPTION	QTY.



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PHONE (714) 562-0500

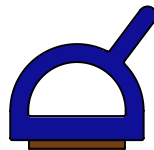
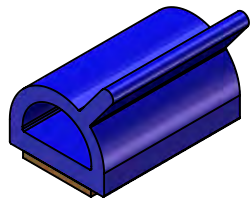
DIMENSIONS ARE IN INCHES.		RUBBER SEAL	
CREATED: TT 8/30/12	CHECKED: KS 8/30/12		
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NOTES:

1. MATERIAL: EPDM-SPONGE, MEDIUM DENSITY, SEE CHART (P).
2. CROSS SECTIONAL AREA : .210 IN².
3.  DENOTES CRITICAL DIMS.
4.  DENOTES PROCESS DIMS.
5. () DENOTES REFERENCE DIMS.
6. DIE REFERENCE : 1844.
7. TAPE : SEE CHART (S).
8. PART MAY BE SINGLE OR DUAL STRAND.
9.  . THIS SURFACE MAY RANGE FROM FLAT THRU 6% CONVEXITY.
10.  . TAPE CENTERED ON PART AS SHOWN.

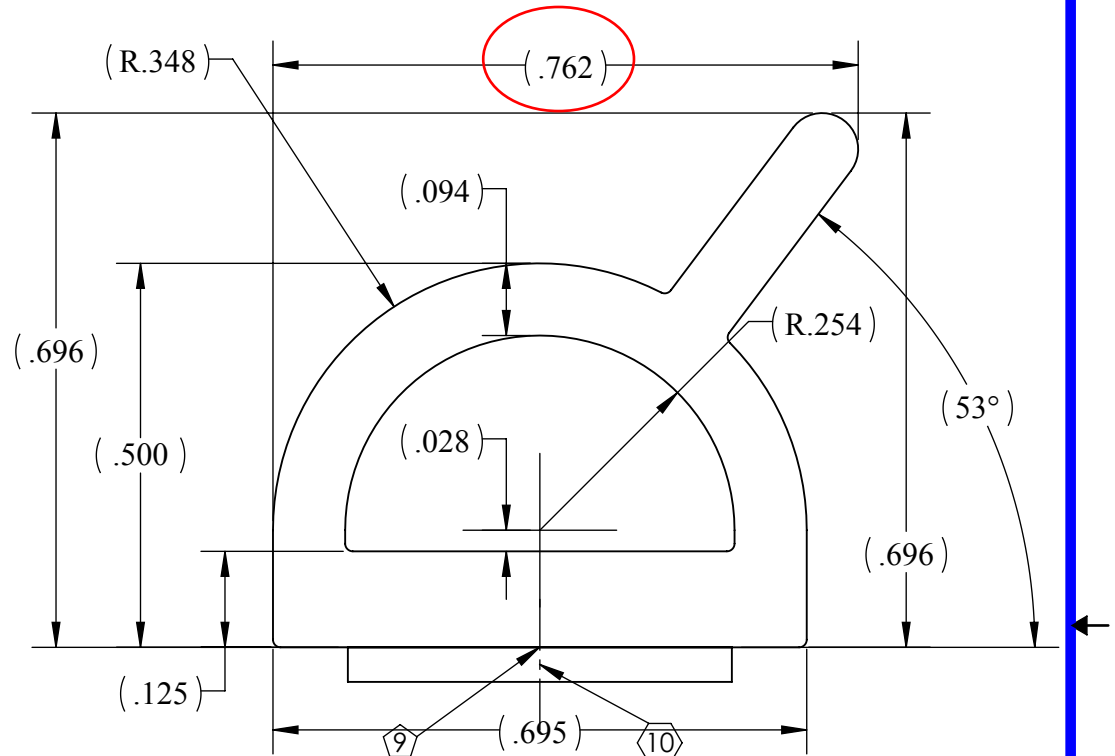
(P) PREFIX OPTION		
(P)	COLOR	
X	BLACK	
OW	OFF-WHT	

(S) SUFFIX OPTION	
(S)	SIZE
BT	1/2"
HT	1/2"
HTR	1/2"
NT	NO TAPE



SCALE 1:1

SALES DRAWING



	Report #:	M8039.01-109-44
	Date:	12/15/2021
	Verified by:	<i>Andrew P. Mehalak</i>

SCALE 4:1



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PHONE (714) 562-0500

RUBBER SPONGE
UNLESS OTHERWISE SPECIFIED, PRECISION RUBBER EXTRUSION TOLERANCES PER ARPM MO-1 (2015) CLASS 2 ARE: .020"-0.050": ±.010" .051"-0.125": ±.020" .126"-0.500": ±.032" .501"-1.00": ±.050" 1.001"-2.000": ±.080" 2.001"-3.150": ±.125" 3.151" & OVER: MULT. BY ±.080"

DIMENSIONS ARE IN INCHES.		RUBBER SEAL
CREATED: TT 11/15/07	CHECKED:RMT 11/15/07	
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		REV.

MEGR/DATE : NORMAN G/

NOTES:

1. MATERIAL: EPDM-SPONGE, MEDIUM DENSITY; SEE BOM.
2. CROSS SECTIONAL AREA : .103 IN² (.051 IN² FOR ONE STRAND)
3.  DENOTES CRITICAL DIMS.
4.  DENOTES PROCESS DIMS.
5. () DENOTES REFERENCE DIMS.
6. DIE REFERENCE : 1568.
7. PART WILL RUN DUAL STRAND (WEBBED).
8.  THIS SURFACE MAY RANGE FROM FLAT THRU 6% CONVEXITY.
9.  PART CENTERED ON PART, APPROXIMATELY AS SHOWN.
10. ALL DIMS ARE MIRROR IMAGE.



Report #: M8039.01-109-44
Date: 12/15/2021
Verified by: 

(P) PREFIX OPTION CHART ①		
(P)	COLOR	MATERIAL NUMBER
X	BLACK	C1280CM
OW	OFF-WHT	C1249CM

(S) SUFFIX OPTION CHART ②		
(S)	SIZE	PART NUMBER
BT	7/16"	DT2054
HT	1/2"	DT2075
HTR	1/2"	DT2065
		NO TAPE

2	TAPE	SEE (S) SUFFIX OPTION CHART	2
1	1568	SEE (P) PREFIX OPTION CHART	1
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.

SCALE 6:1

RUBBER SPONGE

UNLESS OTHERWISE SPECIFIED,
PRECISION RUBBER EXTRUSION
TOLERANCES PER
RMA-392, CLASS 2 ARE:

.020"- .050": ±.010"
.051"- .125": ±.020"
.126"- .500": ±.032"
.501"- 1.00": ±.050"
1.001"- 2.000": ±.080"
2.001"- 3.150": ±.125"
3.151" & OVER: MULT. BY ±.080"



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PHONE (714) 562-0500

DIMENSIONS ARE IN INCHES.

CREATED: TT	CHECKED: KS
9/13/12	9/13/12

RUBBER PROFILE

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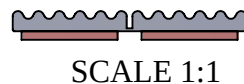
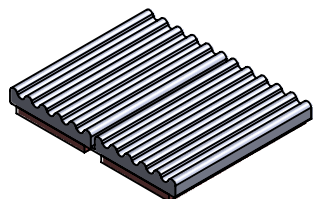
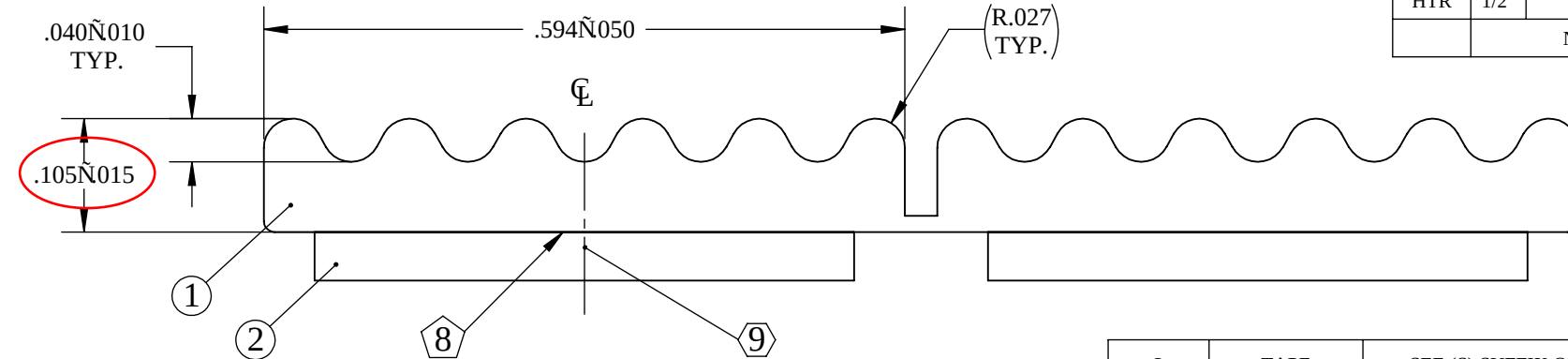
(P)1568(S)

REV.
D

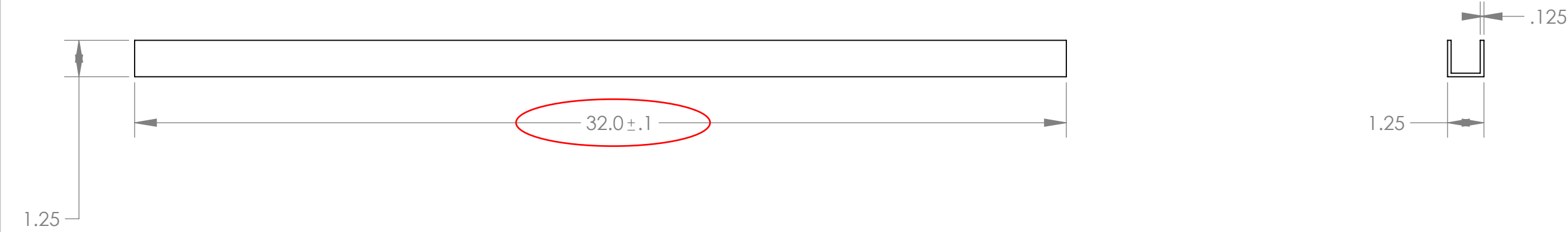
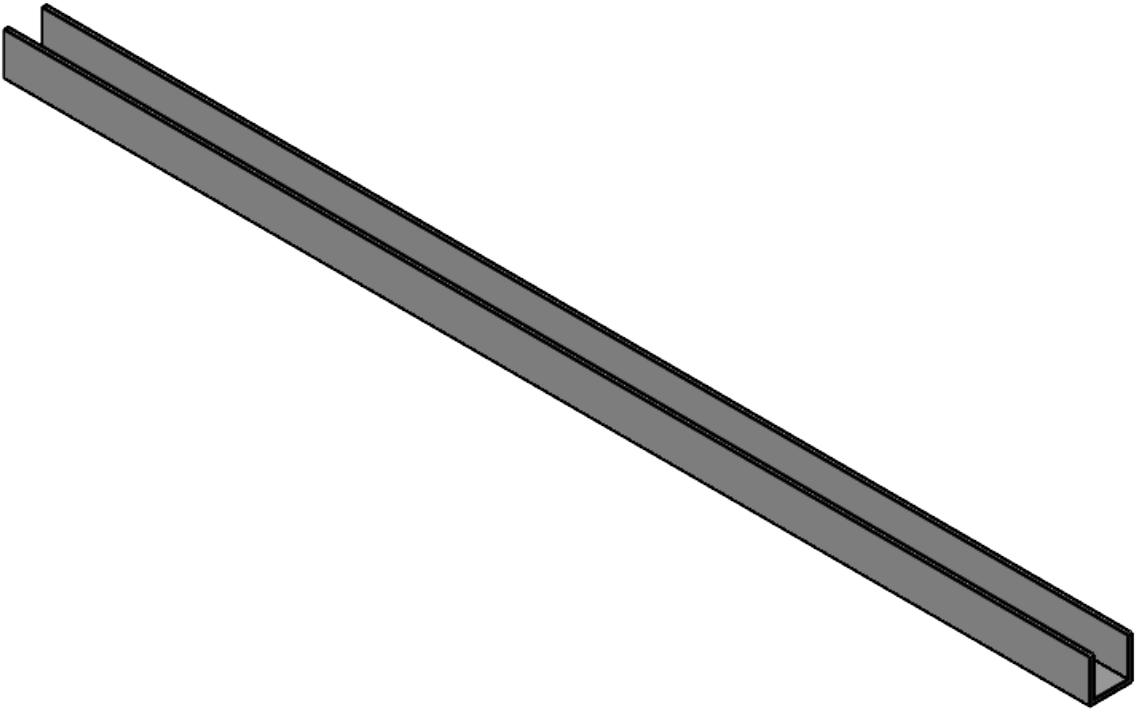
A

B

MEGR/DATE : NORMAN.G/



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Report #:

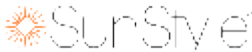
M8039.01-109-44

Date:

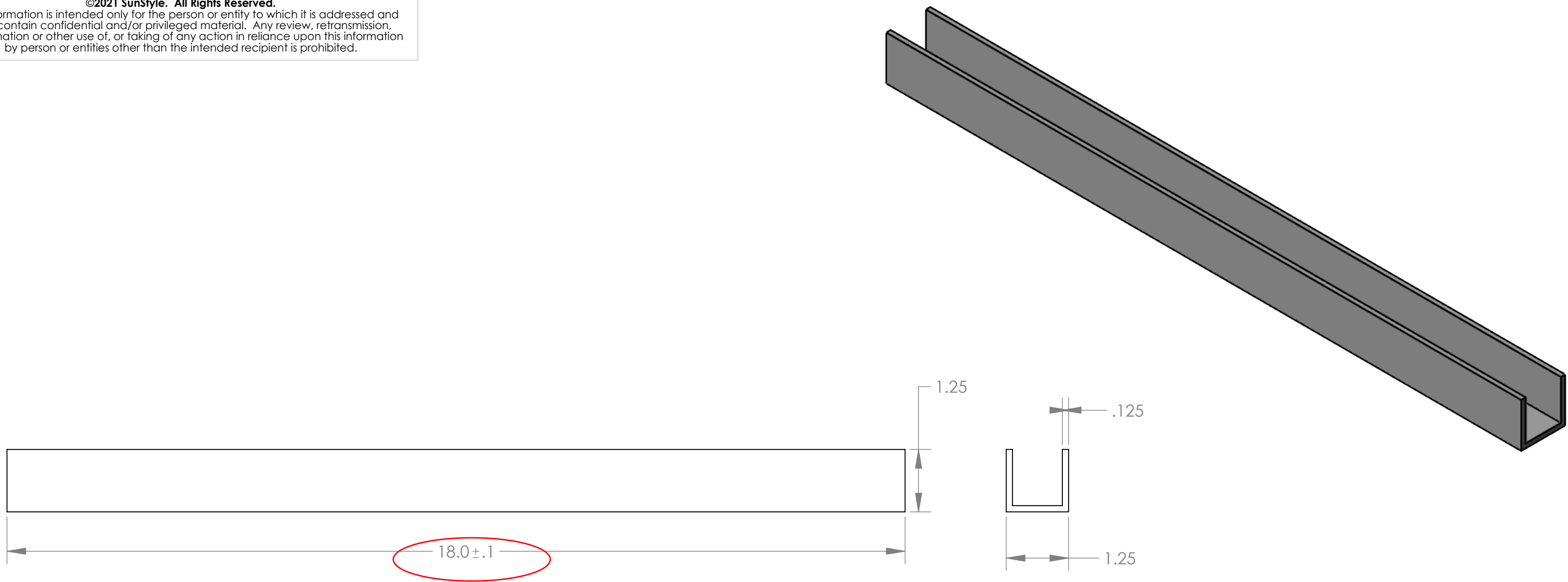
12/15/2021

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UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES ARE: DECIMALS ANGLES X.X ± .05 X ± 1 X.XX ± .02 X.X ± .5 X.XXX ± .005		CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE		 SUNSTYLE USA 250 Alice St Wheeling, IL 60090							
		APPROVALS				DATE					
		DRAWN				DI		XX.XX.XX			
MATERIAL 6063 Aluminum		CHECKED		---		XX.XX.XX					
		RESP ENG		---		XX.XX.XX					
FINISH Clear Anodized		MFG ENG		---		XX.XX.XX					
		QUAL ENG		---		XX.XX.XX					
DO NOT SCALE DRAWING				3D FILE NAME: Shingle Spanner - Long		SIZE B		DWG. FILE NAME: Shingle Brace - Long		REV.	
				SCALE 1:8						SHEET 1 OF 1	

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Report #:

M8039.01-109-44

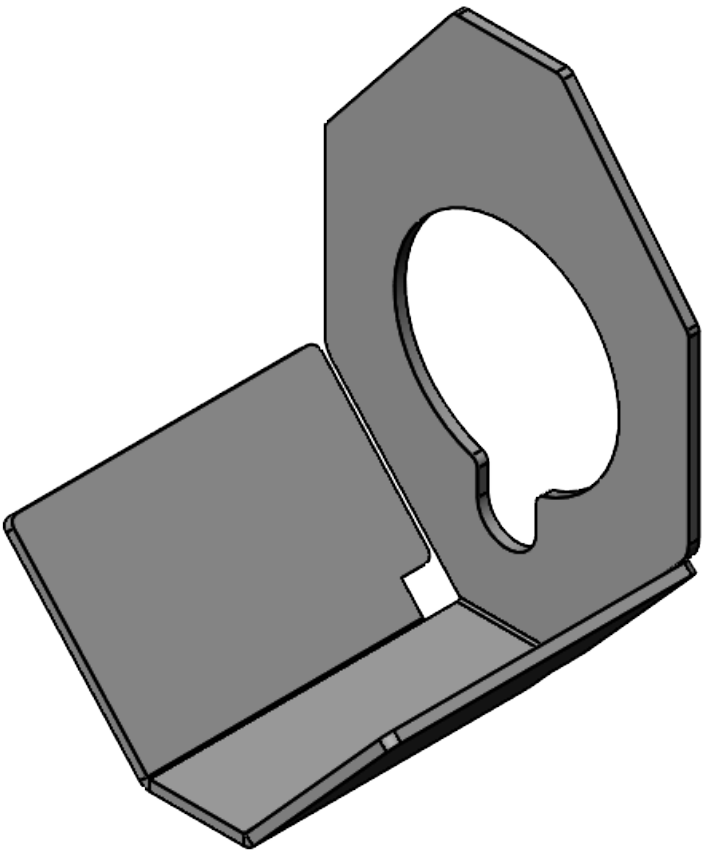
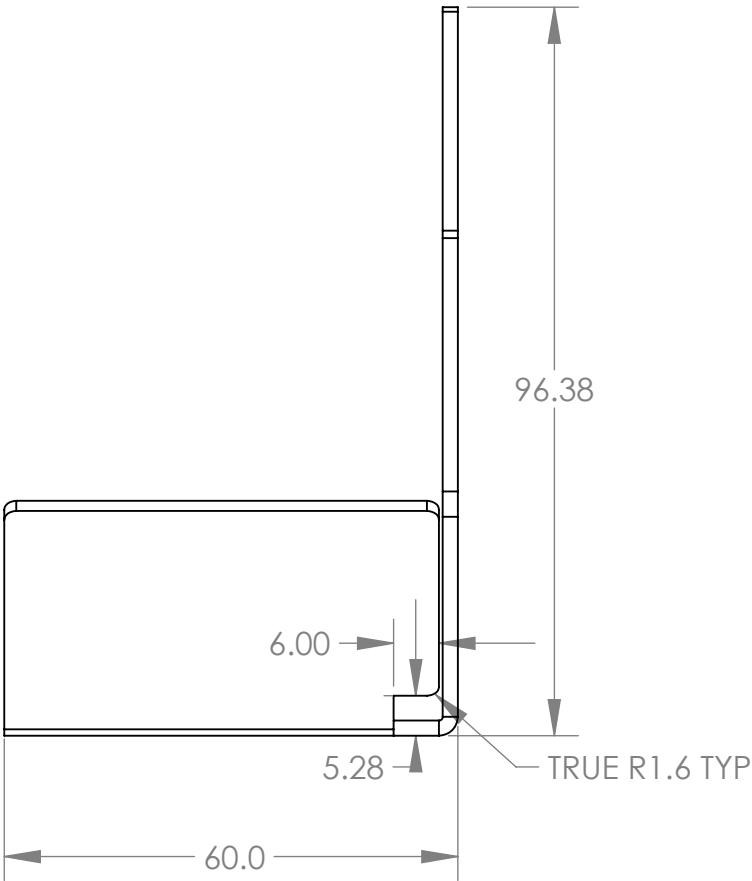
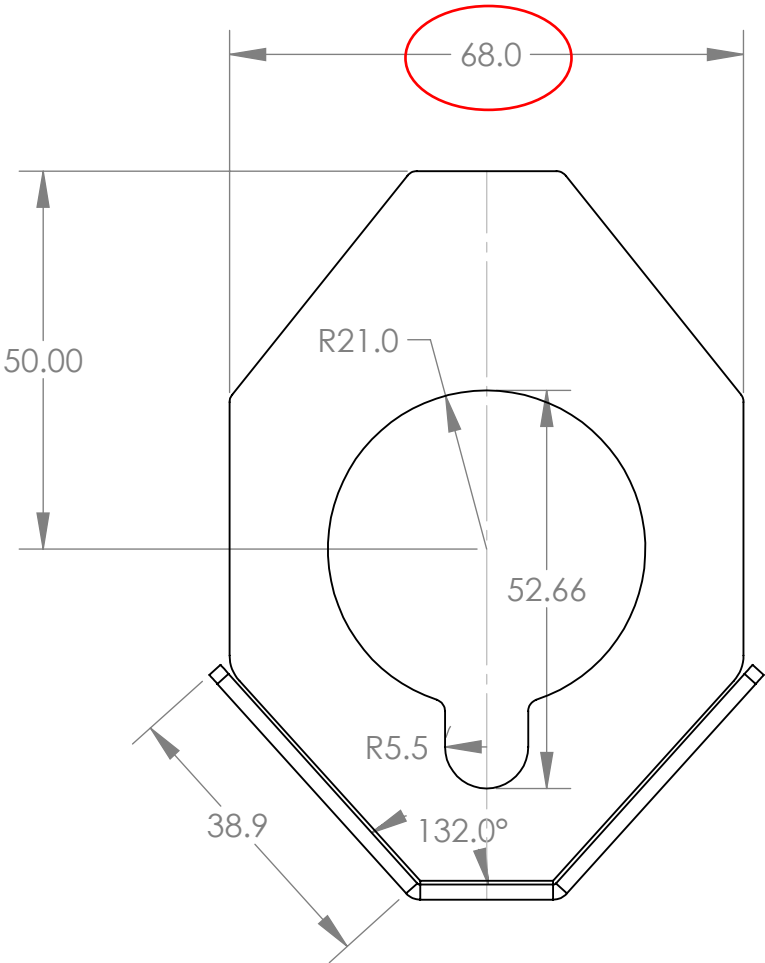
Date:

12/15/2021

Verified by:



UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES ARE: DECIMALS ANGLES X.X ± .05 X ± 1 X.XX ± .02 X.X ± .5 X.XXX ± .005		CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE		 SUNSTYLE USA 250 Alice St Wheeling, IL 60090	
		APPROVALS DATE			
		DRAWN	DI	XX.XX.XX	
		CHECKED	---	XX.XX.XX	
MATERIAL	6063 Aluminum	RESP ENG	---	XX.XX.XX	3D FILE NAME: Shingle Brace - Short
FINISH	Clear Anodized	MFG ENG	---	XX.XX.XX	SIZE B DWG. FILE NAME: Shingle Brace - Short REV.
DO NOT SCALE DRAWING		QUAL ENG	---	XX.XX.XX	
		SCALE	1:4	SHEET 1 OF 1	





Report #:

M8039.01-109-44

Date:

12/15/2021

Verified by:



UNLESS OTHERWISE SPECIFIED DIMENSIONS IN MILLIMETERS TOLERANCES ARE: DECIMALS ANGLES $X.X \pm .3$ $X \pm 1$ $X.XX \pm .15$ $X.X \pm .5$		CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE		 SUNSTYLE USA 250 Alice St Wheeling, IL 60090	
		APPROVALS	DATE	3D FILE NAME:	
		DRAWN DI	XX.XX.XX	Snow Stopper	
MATERIAL 430 SS (14 Ga)	FINISH Mill	CHECKED ---	XX.XX.XX	DWG. FILE NAME:	
		RESP ENG ---	XX.XX.XX	Snow Stopper	
DO NOT SCALE DRAWING		MFG ENG ---	XX.XX.XX	SCALE 1:2	REV.
		QUAL ENG ---	XX.XX.XX		SHEET 1 OF 1



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Facsimile: 717-764-4129
www.intertek.com/building

TEST REPORT FOR CERTAINTEED LLC

Report No.: M8039.02-109-18

Date: 06/17/25

SECTION 11

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	06/17/25	N/A	Original Report Issue – Reissued Report No. M8039.02-109-44 in the name of CertainTeed LLC.