

QC MANUFACTURING INC.

TEST REPORT

SCOPE OF WORK

ASTM E330 TESTING ON AFR SMT PRO-1.3 AND AFR SLR-40, ROOF ATTIC VENT WITH FAN

REPORT NUMBER

R9731.01-109-18

TEST DATE

01/13/25

ISSUE DATE

03/20/25

RECORD RETENTION END DATE

01/13/29

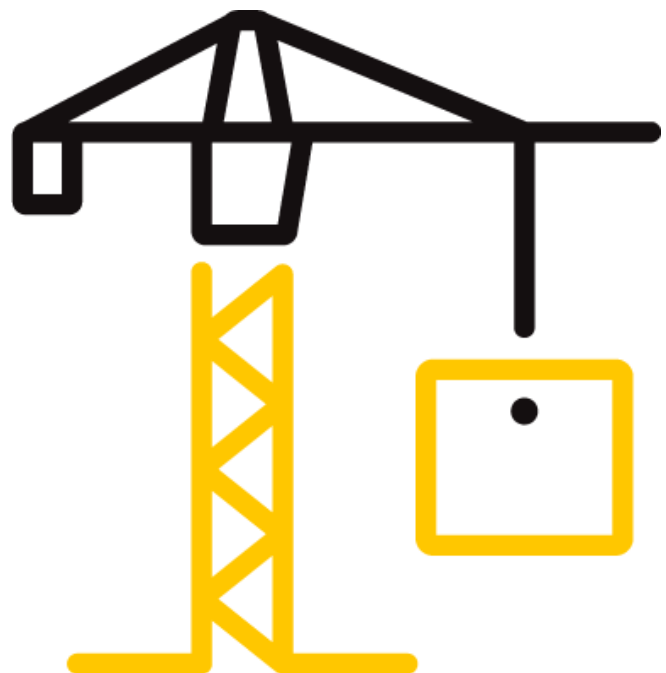
PAGES

21

DOCUMENT CONTROL NUMBER

RT-R-AMER-Test-2805 (09/23/24)

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130 Derry Court
York, Pennsylvania 17406

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

TEST REPORT FOR QC MANUFACTURING INC.

Report No.: R9731.01-109-18

Date: 03/20/25

REPORT ISSUED TO

QC MANUFACTURING INC.

26040 Ynez Road

Temecula, California 92591

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by QC Manufacturing Inc. to perform testing in accordance with ASTM E330, on AFR SMT PRO-1.3 and AFR SLR-40, Roof Attic Vent with Fan. 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.

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. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

For INTERTEK B&C:

COMPLETED BY:	Christopher E. Sartalis	REVIEWED BY:	Timothy J. McGill
TITLE:	Technician – Product Testing	TITLE:	Senior Project Engineer – Product Testing
SIGNATURE:		SIGNATURE:	
DATE:	03/20/25	DATE:	03/20/25

CES:mas

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SECTION 2**TEST METHOD(S)**

The specimen was evaluated in accordance with the following:

ASTM E330/E330M-14 (Reapproved 2021), *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*

SECTION 3**MATERIAL SOURCE/INSTALLATION**

Test specimen(s) 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.

Installation of the tested product was performed by Intertek B&C.

SECTION 4**EQUIPMENT****Control Panel:** 005406**Weather Station:** 63316**Linear Transducer:** 64368**Tape Measure Verification:** 63788**SECTION 5****LIST OF OFFICIAL OBSERVERS**

NAME	COMPANY
Larry D. Testerman II	Intertek B&C
Tyler J. Holland	Intertek B&C
Timothy J. McGill	Intertek B&C
Christopher E. Sartalis	Intertek B&C

TEST REPORT FOR QC MANUFACTURING INC.

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SECTION 6

TEST SPECIMEN DESCRIPTION

Series/Model: AFR SMT PRO-1.3 and AFR SLR-40

Product Type: Roof Attic Vent with Fan

Product Sizes:

AFR SMT PRO-1.3:

OVERALL AREA:	WIDTH		LENGTH		HEIGHT	
0.5 m ² (5.4 ft ²)	millimeters	inches	millimeters	inches	millimeters	inches
Overall size	711	28	711	28	260	10-1/4

AFR SLR-40:

OVERALL AREA:	WIDTH		LENGTH		HEIGHT	
0.4 m ² (4.0 ft ²)	millimeters	inches	millimeters	inches	millimeters	inches
Overall size	610	24	610	24	267	10-1/2

Fans were removed from both units for testing

AFR SMT PRO-1.3 Description:

The primary flashing was constructed from 22-gauge steel measuring 26" x 26" with a 16-3/4" diameter opening in the center. A 20-gauge cylindrical stamped aluminum housing with a diameter of 16-3/4", was attached to the collar of the flashing with four 3/4" panhead screws. A single piece 22 gauge stamped steel cover measuring 28" wide by 28" long by 5-3/4" high, was fastened to the top of the housing cylinder with 3/4" panhead screws.

AFR SMT PRO-1.3 Installation:

A 48" x 48" wood buck was constructed of 2x10s with rafters located 24" on center and sheathed using 1/2" plywood secured with 1-5/8" drywall screws spaced 8" on center around the perimeter and along the rafters. Architectural shingles were utilized over the sheathing. In the center of the rafters a 17-1/4" diameter hole was cut in the sheathing. Sealant was applied to the underside of the flashing and around cut out in the roof. The unit's flashing base was slid under the shingles and lined up with holes in the roof. Eight #10 x 1-1/2" self-tapping screws, one fastener at each corner and one fastener at the midpoint of each side down through the flashing and into the roof deck.

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AFR SLR-40 Description:

The primary flashing was constructed from 20-gauge steel measuring 24" x 24" with a 14-7/8" diameter opening in the center. A 20-gauge cylindrical aluminum housing with a diameter of 14-3/4", was attached to the collar of the flashing with four 3/4" panhead screws. A single piece 20-gauge steel cover measuring 21" wide by 21" long by 5" high, was fastened to the top of the housing cylinder with 3/4" panhead screws. A 20" x 20" solar panel was centered and mounted to the top of cover.

AFR SLR-40 Installation:

A 36" x 36" wood buck was constructed of 2x10s with rafters located 24" on center and sheathed using 1/2" plywood secured with 1-5/8" drywall screws spaced 8" on center around the perimeter and along the rafters. Architectural shingles were utilized over the sheathing. In the center of the rafters a 14" diameter hole was cut in the sheathing. Sealant was applied to the underside of the flashing and around cut out in the roof. The unit's flashing base was slid under the shingle and lined up with holes in the roof. Eight #10 x 1-1/2" self-tapping screws, one fastener at each corner and one fastener at the midpoint of each side down through the flashing and into the roof deck.

SECTION 7

TEST RESULTS

The temperature during testing was 17°C (63°F). The results are tabulated as follows:

AFR SMT PRO-1.3:

TITLE OF TEST	DEFLECTION	PERMANENT SET	NOTE
Uniform Load, per ASTM E330 Deflections and permanent sets taken at the top in the middle of the specimen -15800 Pa (-330.0 psf)	37.6 mm (1.48")	10.9 mm (0.43")	1, 2

Failure Mode: 5 seconds into the load at 340 psf, fasteners holding the cover to the housing cylinder broke loose.

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AFR SLR-40:

TITLE OF TEST	DEFLECTION	PERMANENT SET	NOTE
Uniform Load, per ASTM E330 Deflections and permanent sets taken at the top in the middle of the specimen -24898 Pa (-520.0 psf)	19.6 mm (0.77")	2.3 mm (0.09")	1, 2

Failure Mode: Maximized the test blowers' capabilities.

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

Note 1: Loads were held for 30 seconds.

Note 2: 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.

TEST REPORT FOR QC MANUFACTURING INC.

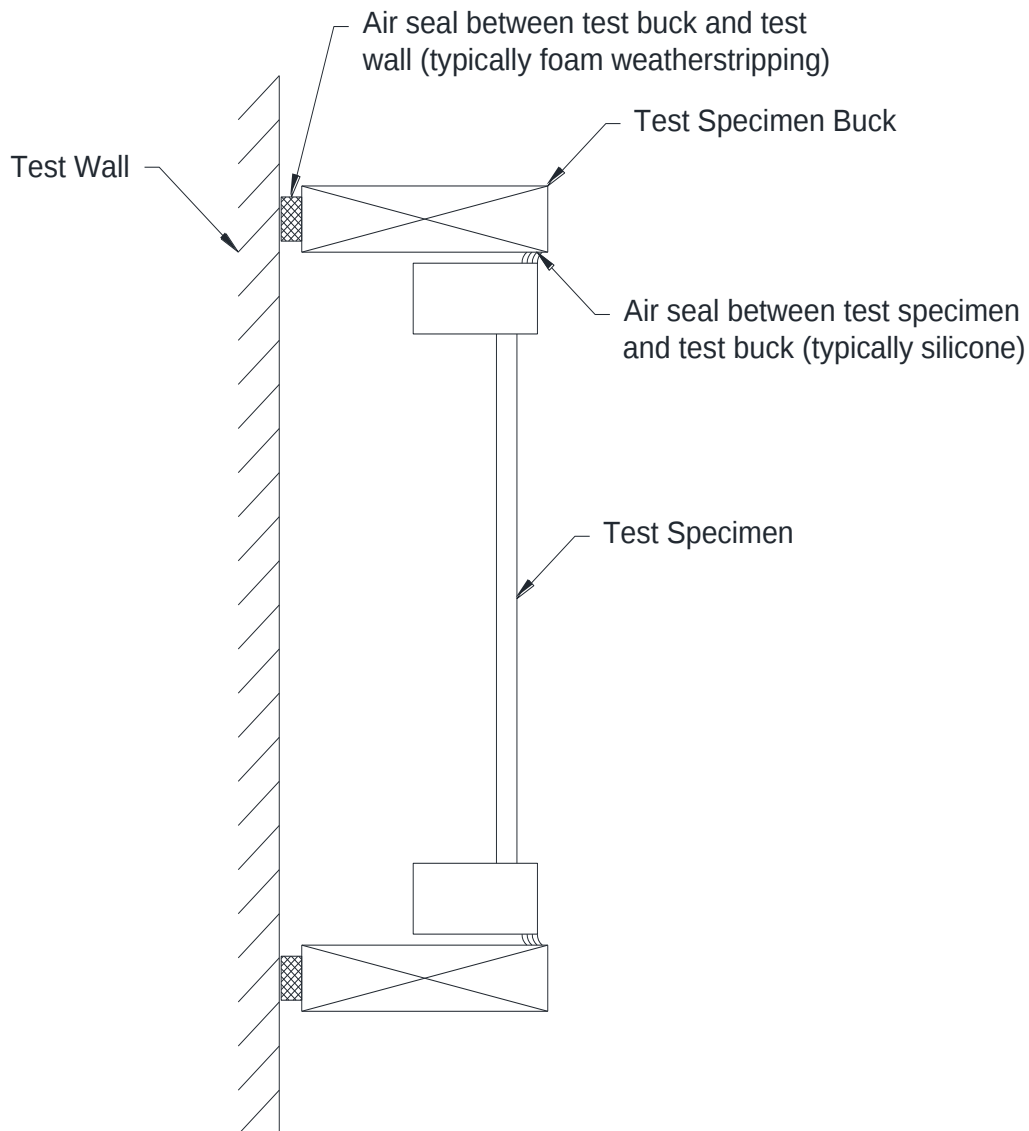
Report No.: R9731.01-109-18

Date: 03/20/25

SECTION 8

LOCATION OF AIR SEAL

The air seal between the test specimen and the test wall is detailed below. The seal is made of foam weatherstripping and is attached to the edge of the test specimen buck. The test specimen buck is placed against the test wall and clamped in place, compressing the weatherstripping and creating a seal.



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SECTION 9

PHOTOGRAPHS



Photo No. 1
AFR SMT PRO-1.3 Prior to Testing

TEST REPORT FOR QC MANUFACTURING INC.

Report No.: R9731.01-109-18

Date: 03/20/25



Photo No. 2
AFR SMT PRO-1.3 Failure Photo

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Photo No. 3
AFR SLR-40 Prior to Testing



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SECTION 10

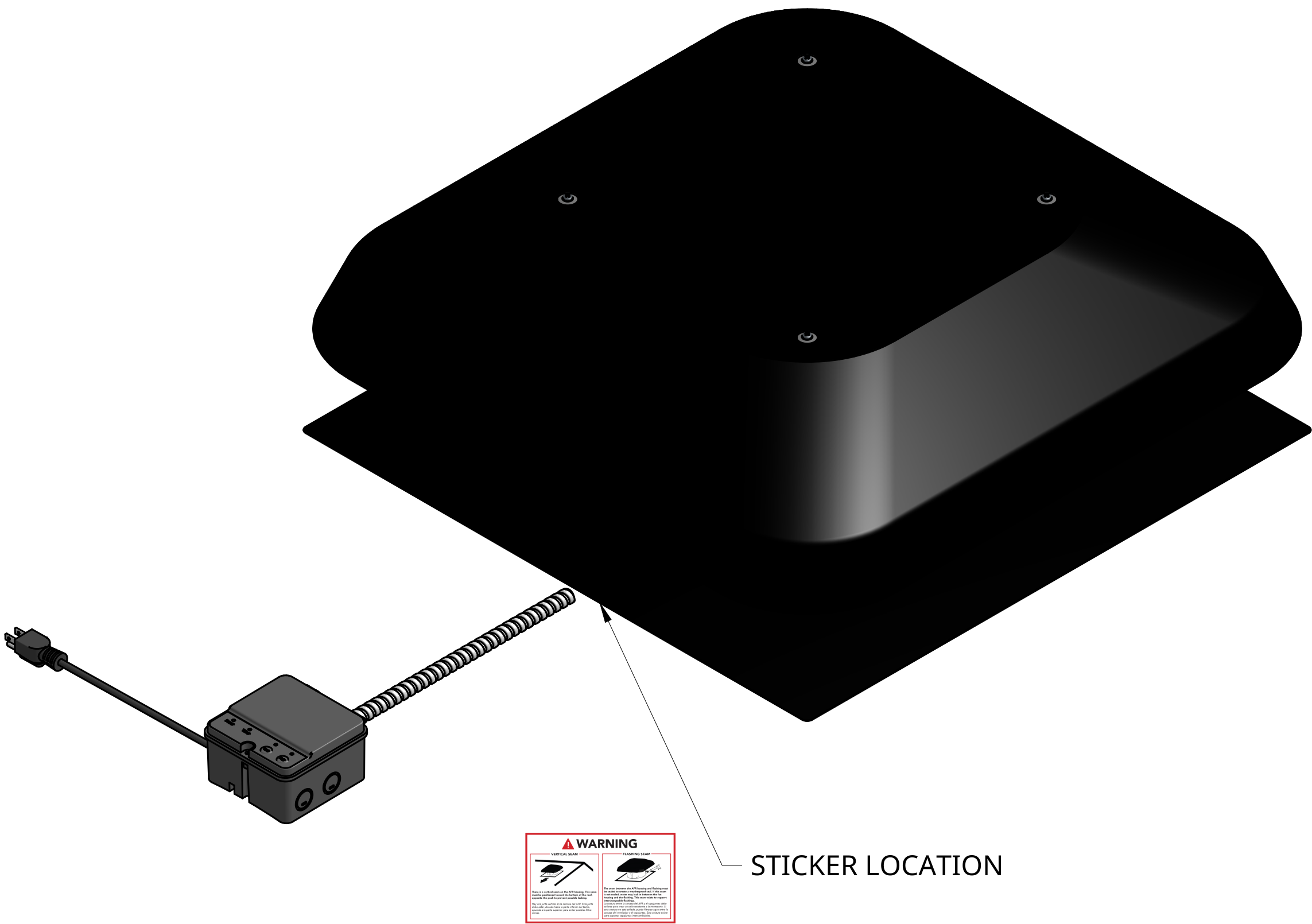
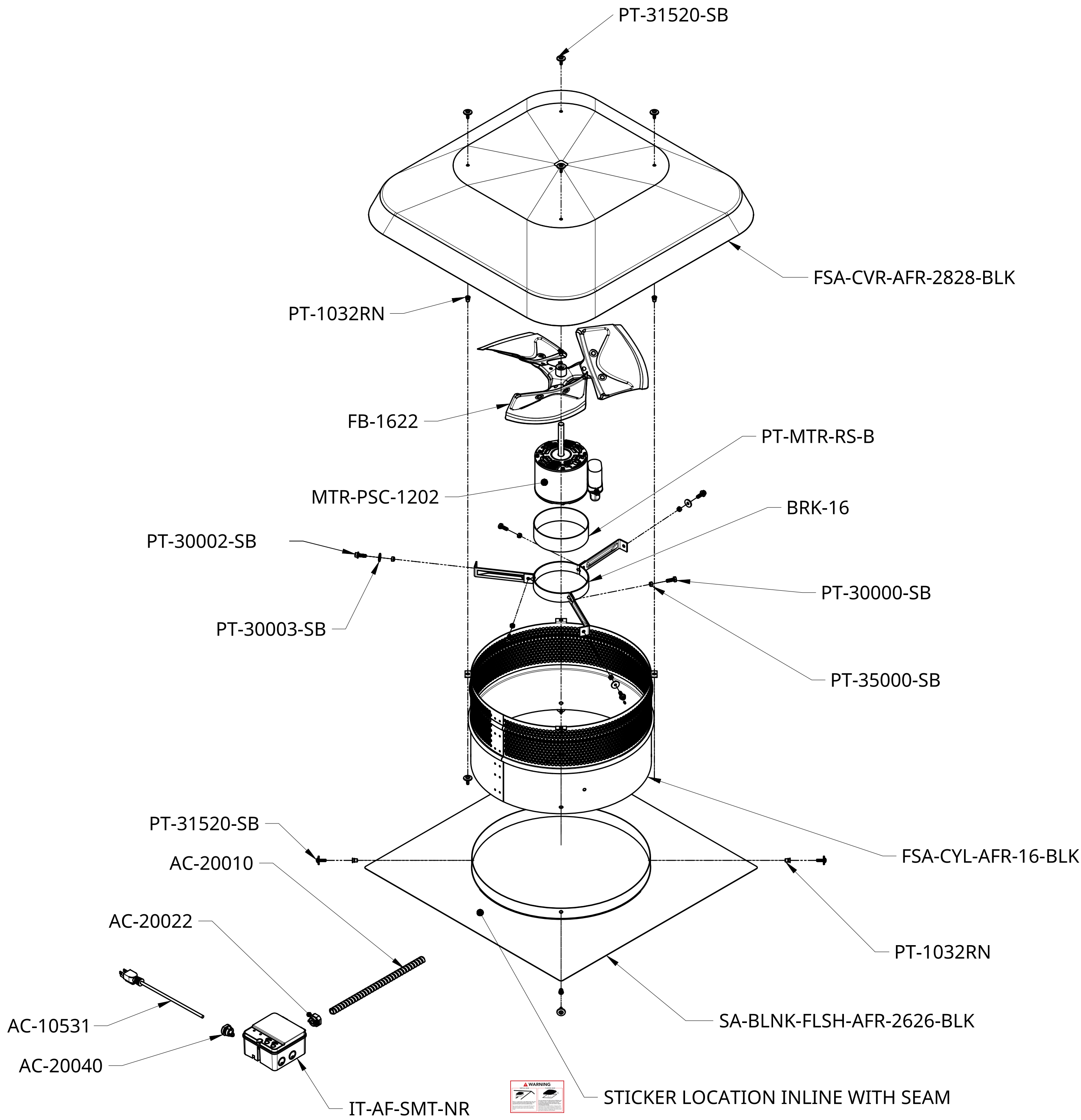
DRAWINGS

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.

NOTES: UNLESS OTHERWISE SPECIFIED

1 MATERIAL: SEE BOM BELOW

REVISIONS				
ECO	REV	DESCRIPTION	DATE	APPROVED
00223	A	INITIAL RELEASE	3/6/2023	





Report #: R9731.01
Date: 01/23/25
Verified by: *Charles E. Jeter*

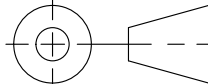
PRELIMINARY
02/05/2024
Q.C. MANUFACTURING

ITEM	QUANTITY	PART NUMBER	DESCRIPTION	MATERIAL
1	1	FSA-CVR-AFR-2828-BLK	AFR HOOD SUB ASSM 28 X 28	EDDS / G90
2	1	FSA-CYL-AFR-16-BLK	FINISHED SUB ASSEMBLY 16 CYL ROLLER FOR AFR	ALUM 3003-H14
3	1	FB-1622	REVCOR XW1603-22	ALUMINUM
4	1	SA-BLNK-FLSH-AFR-2626-BLK	FLASHING SUB ASSEMBLY	EDDS / G90
5	1	MTR-PSC-1202	1/20 HP, 2 SPEED PSC MOTOR	STEEL
6	1	BRK-16	BRACKET, MOTOR, GALV CSR, 16 CYL	GALV PLATED - STEEL
7	1	AC-20010	AFC 5601-30-00 3/8" AL CONDUIT X 19 3/8"	ZINC PLATED STEEL
8	1	AC-20022	SNAP CONNECTOR, 1/2" KNOCKOUT	ZINC PLATED STEEL
9	1	AC-10531	POWER CORD, SVT 18/3C 105 C 20 FT	RUBBER
10	1	AC-20040	HEYCO PN 1240 STRAIN RELIEF BUSHING	PLASTIC
11	1	IT-AF-SMT-NR	SMART CONTROL BOX	PLASTIC

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THIRD ANGLE PROJECTION

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3 PLACE ±.010
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FRACTIONS ±1/16
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CONCENTRICITY .010 TIR
PERPENDICULARITY .005/INCH
EDGE BREAK .002-.015
REMOVE ALL BURRS
SURFACE FINISH 125/
THREADS PER FED STD H-28
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PRESCRIBED IN: ASME Y14.100-2000
ASME Y14.5M 1994
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DO NOT SCALE DRAWING

DRAWN: DEREK CONRAD 04/13/2023

CHECKED: ENGINEER

MFG ENG: MFG ENG

MAT'L MGMT: MAT'L MGMT

QUALITY ENG: QUALITY

APPROVED: APPROVED DY-MON-YEAR

APPLICATION

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MAKERS OF THE QUIETCOOL ADVANCED WHOLE HOUSE FAN

QC MANUFACTURING INC.
26040 YNEZ RD.
TEMECULA, CA 92591

DRAWING NO. (SEE ABOVE FOR PART NUMBER)

ROOF MOUNT FAN

SIZE: D

AFR-SMT-PRO-1.3

REV: A

FORM NO. ENG-0001-SW REV B

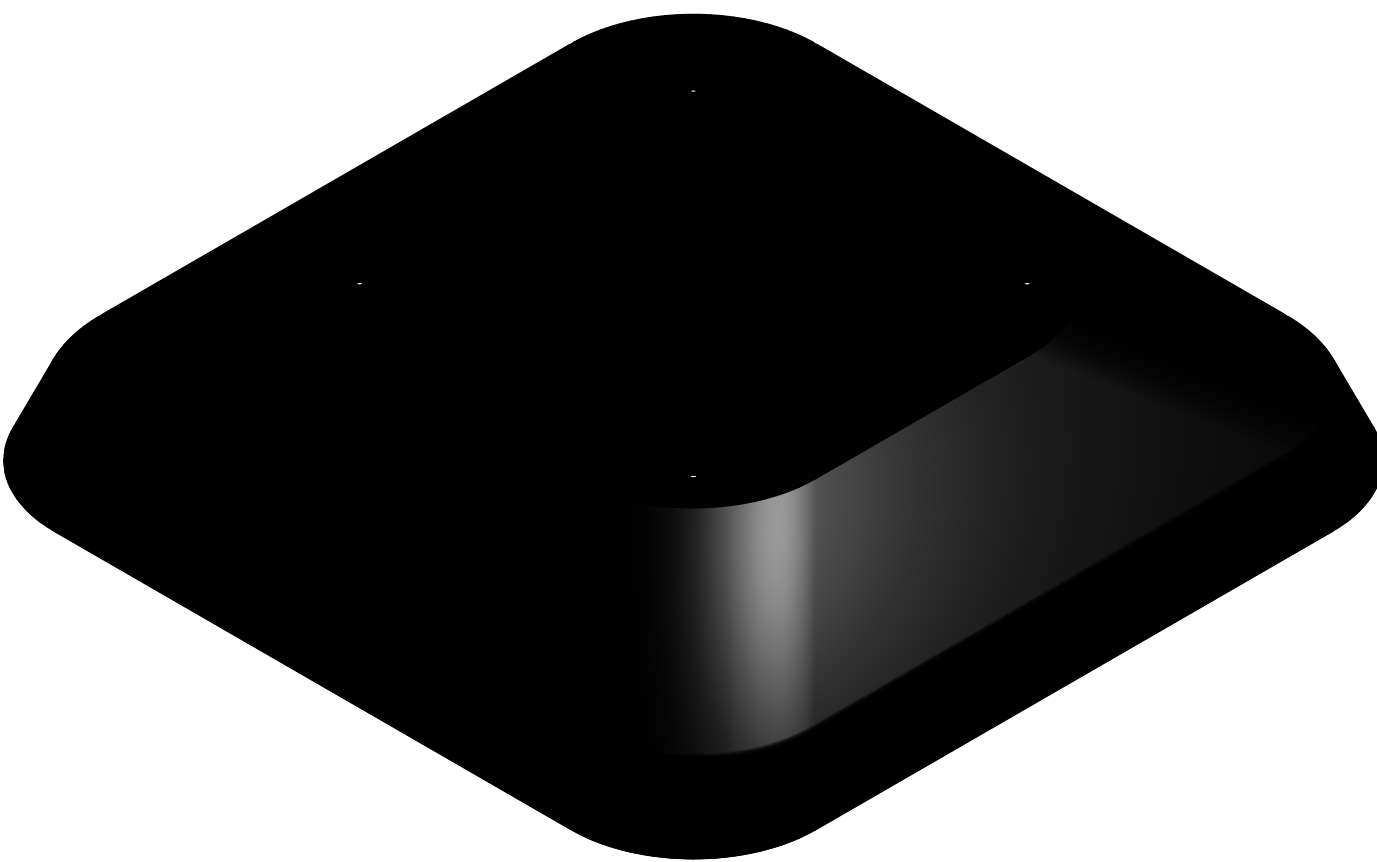
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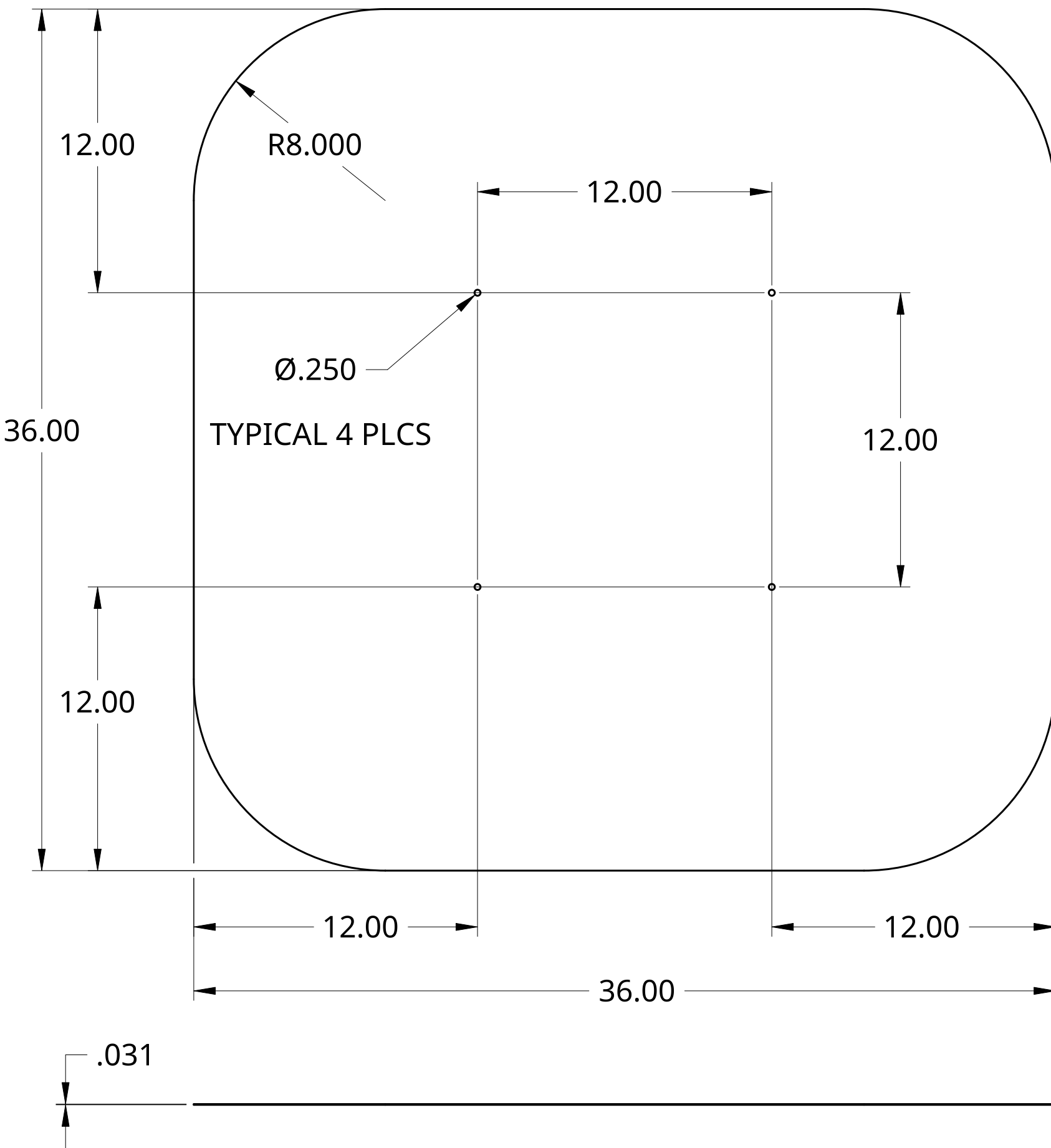
NOTE: MATERIAL - G90 , 22 GA, PPG APTB7541

FSA-CVR-AFR-2828-BLK

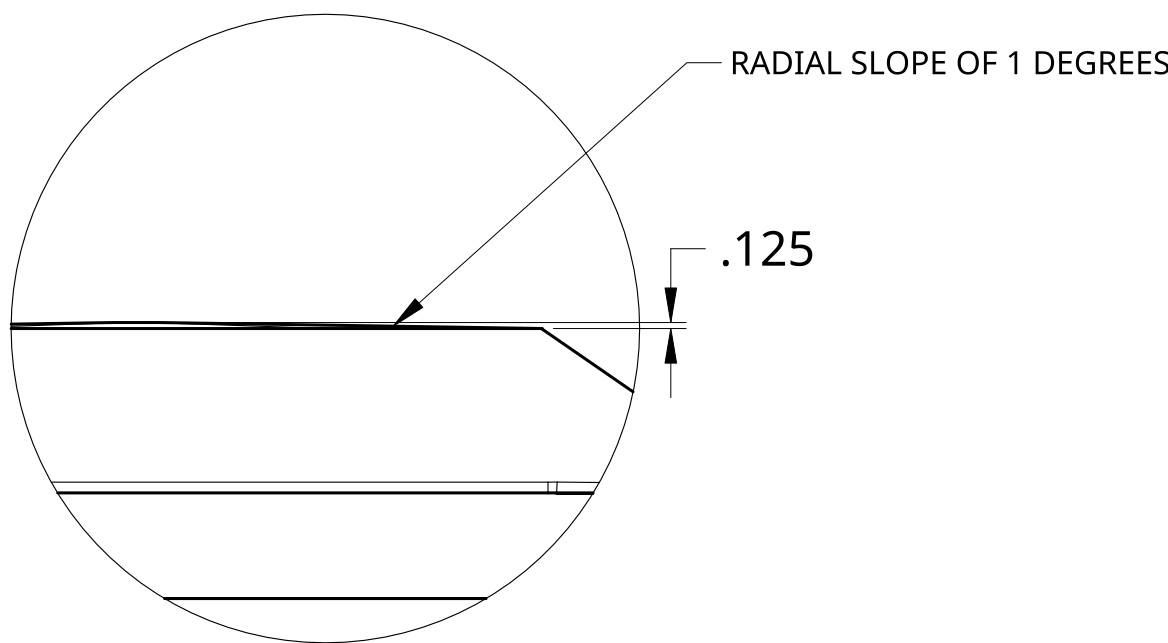
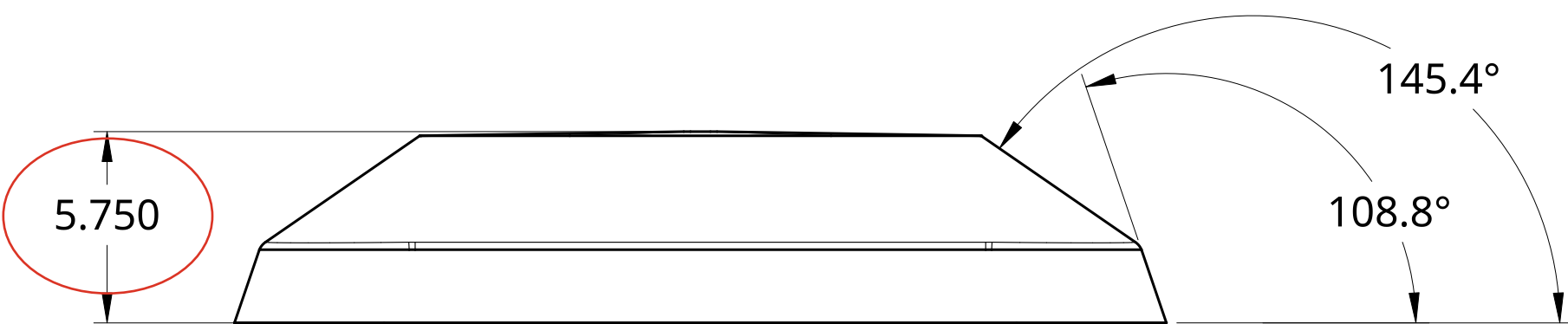
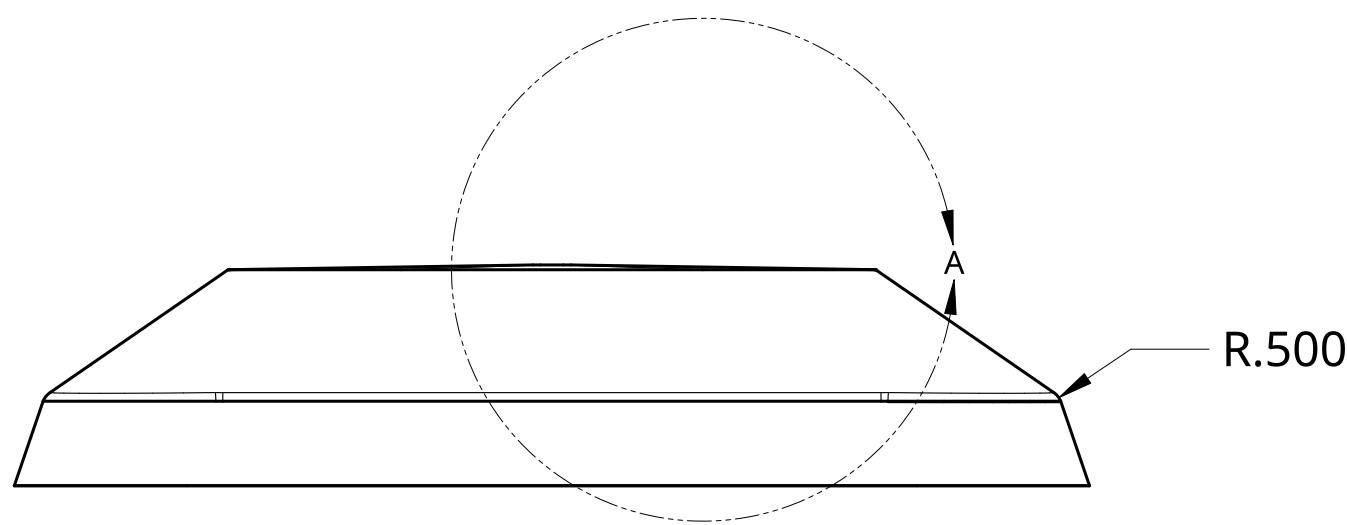
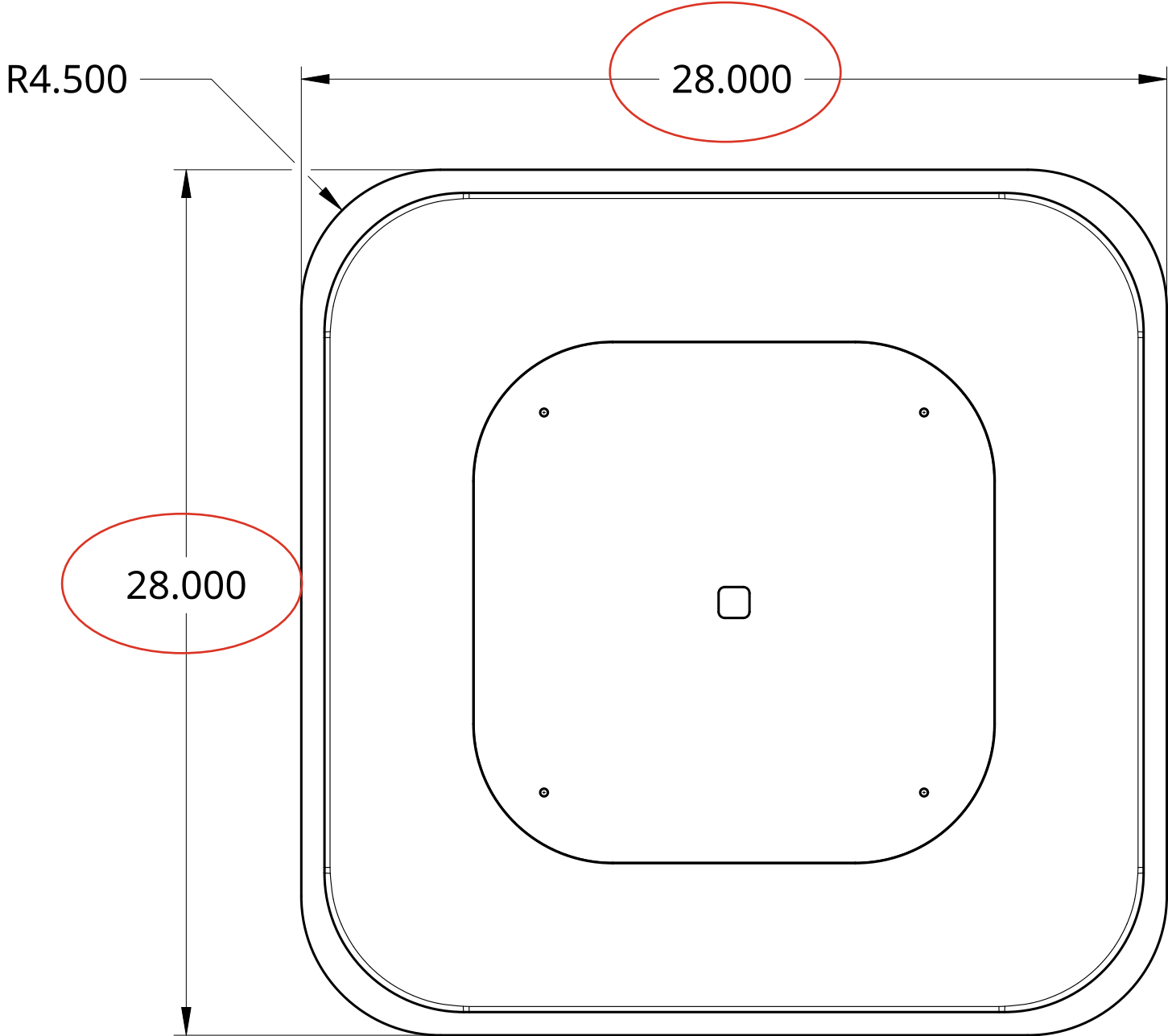
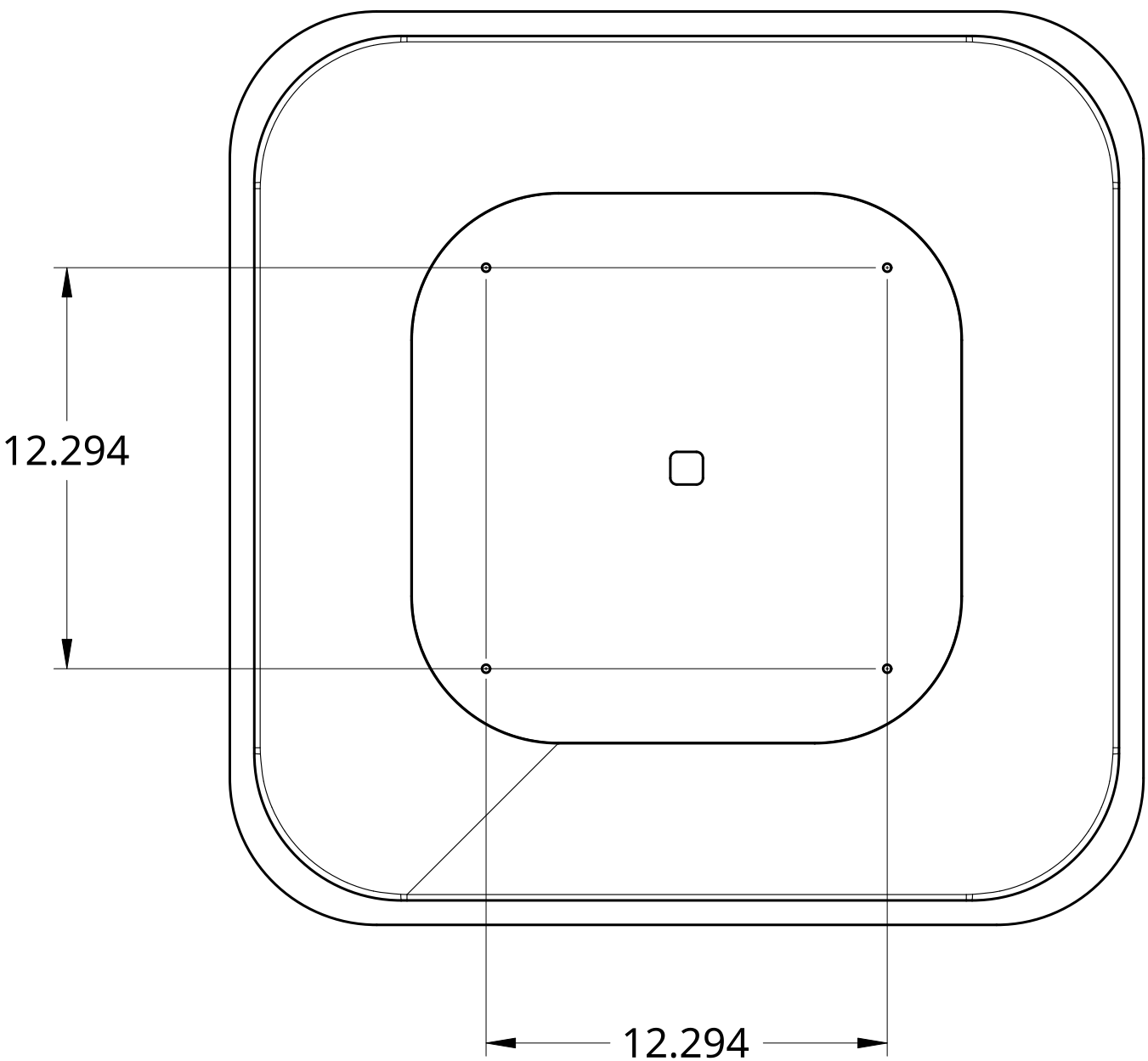


FLAT PATTERN BLANK

SA-BLNK-CVR-2828-BLK



REFERENCE DIMENSION ONLY





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		FILLET RADII .010-.032	
		CONCENTRICITY .010 TIR	
		PERPENDICULARITY .005/INCH	
		EDGE BREAK .002-.015	
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		SURFACE FINISH 125/	
		THREADS PER FED STD H-28	
		INTERPRET DRAWING PER STANDARDS	
		PRESCRIBED IN: ASME Y14.100-2000	
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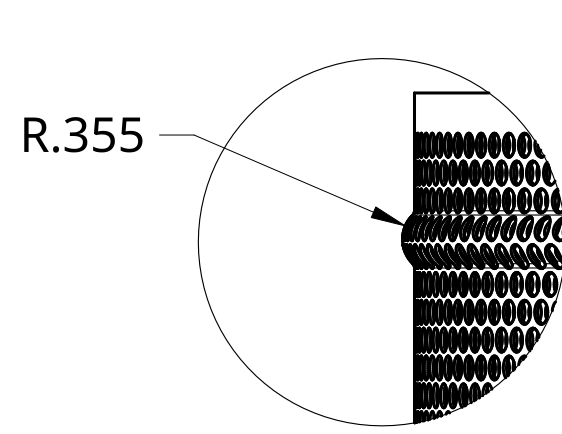
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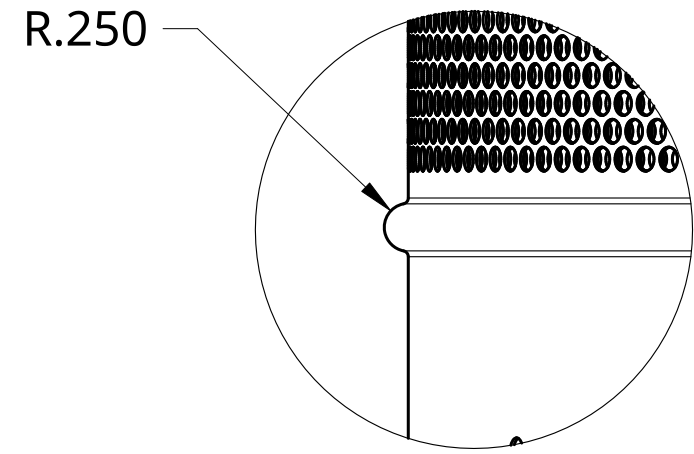
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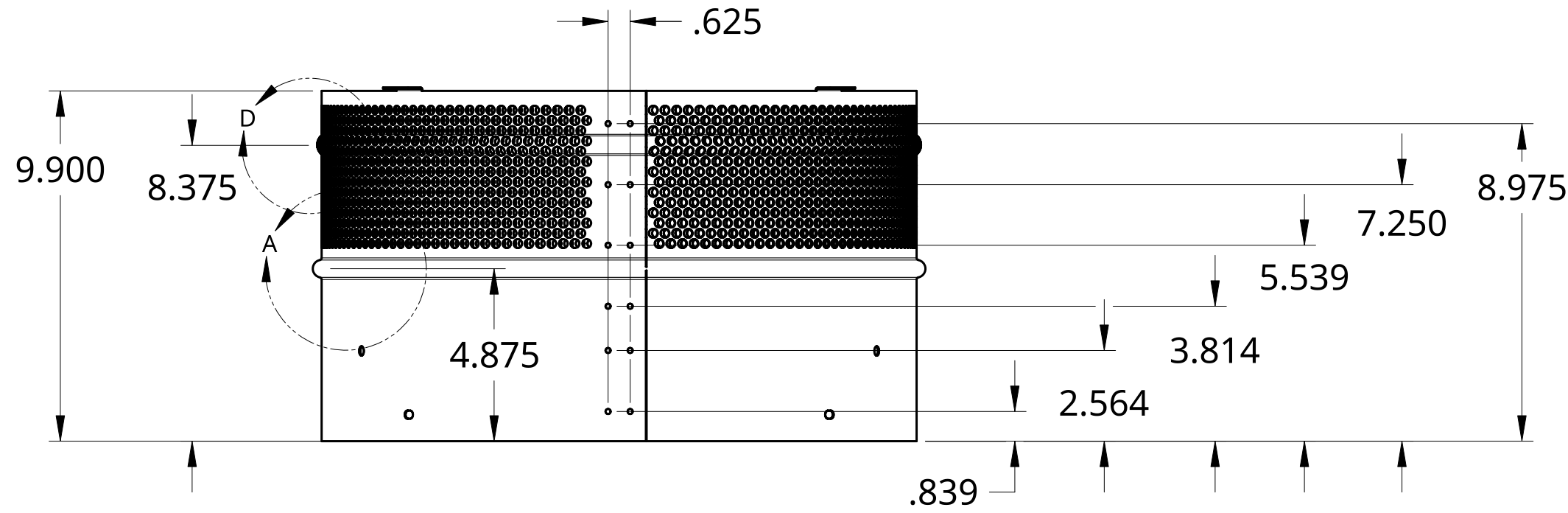
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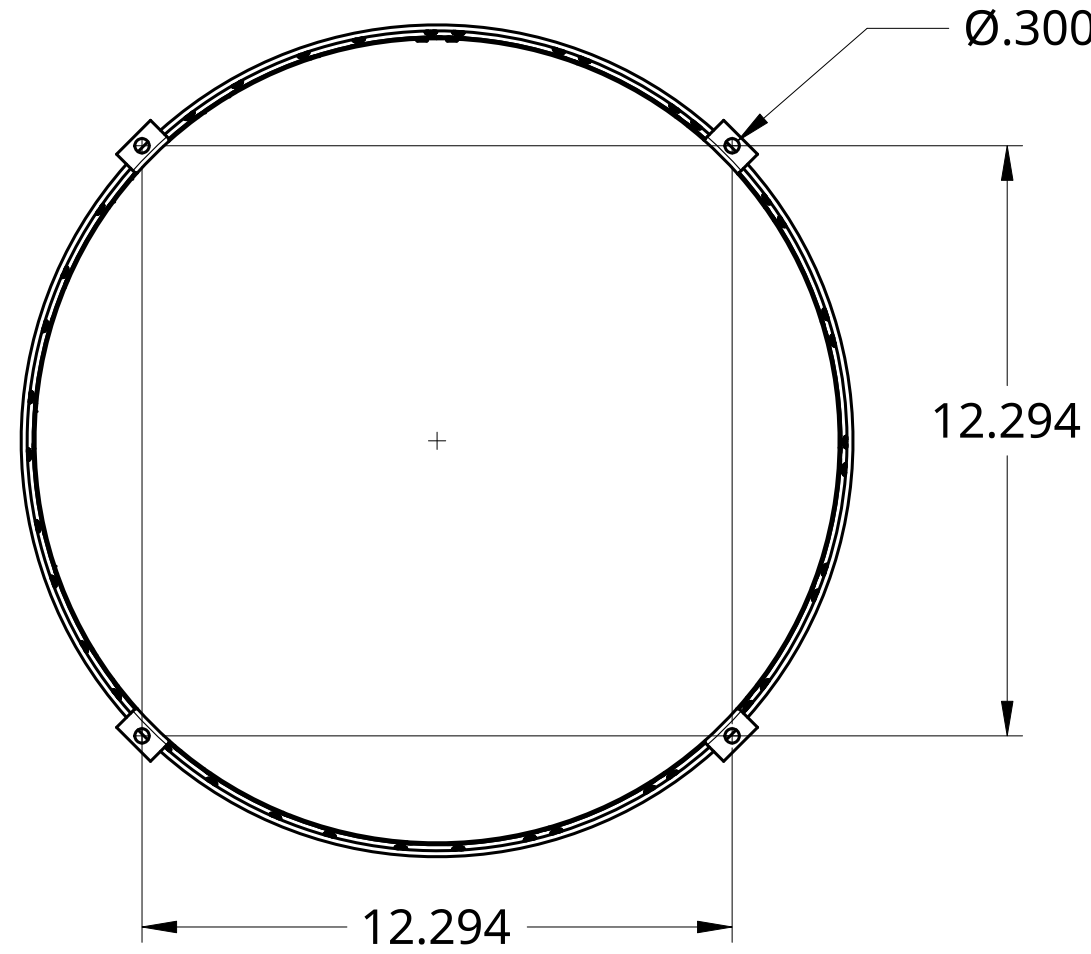


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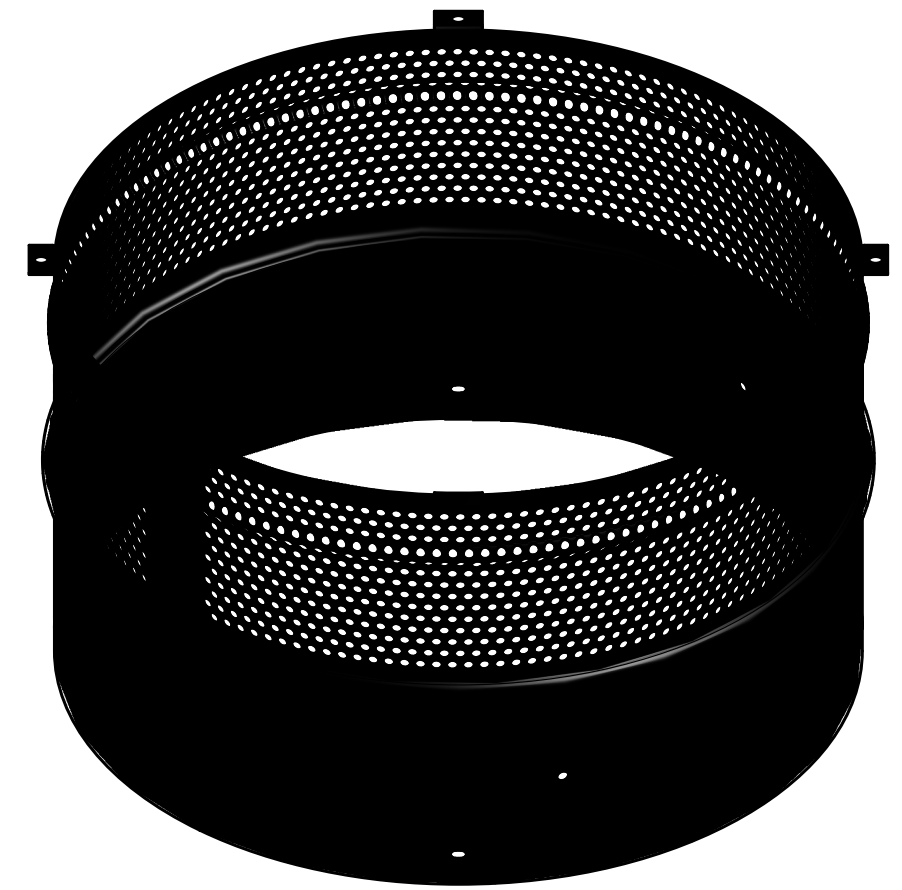


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FSA-CYL-AFR-16-BLK

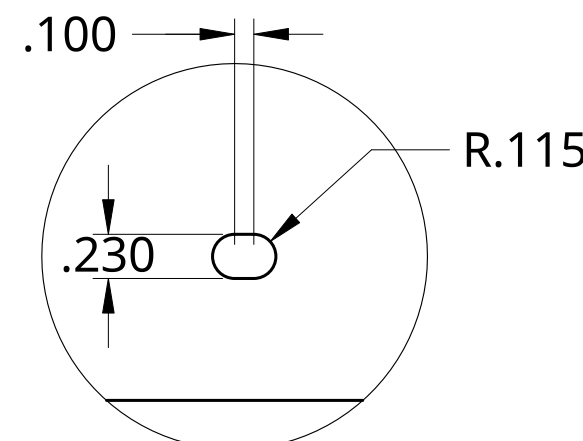
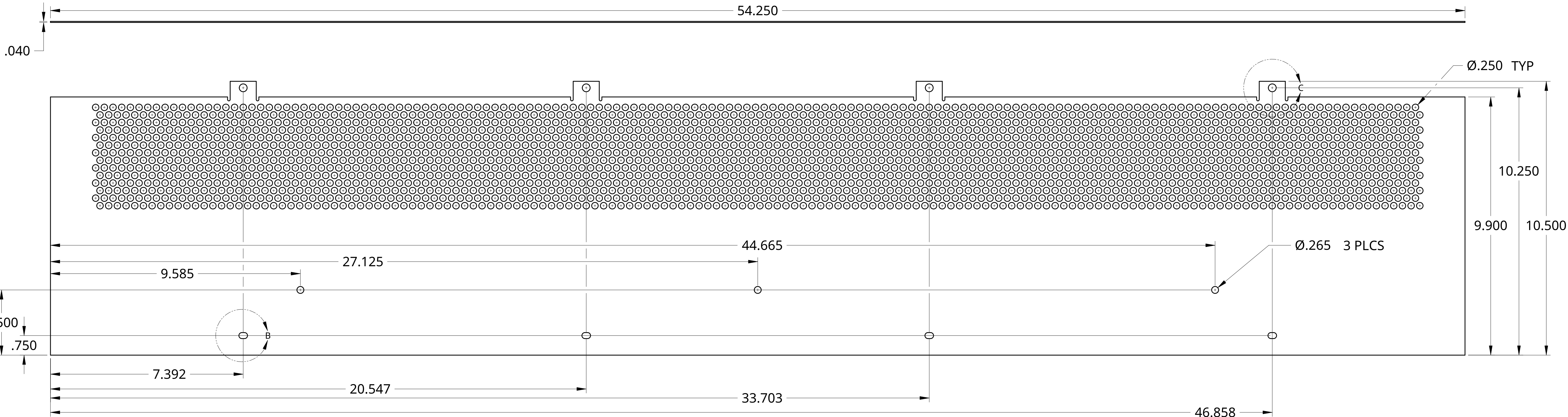


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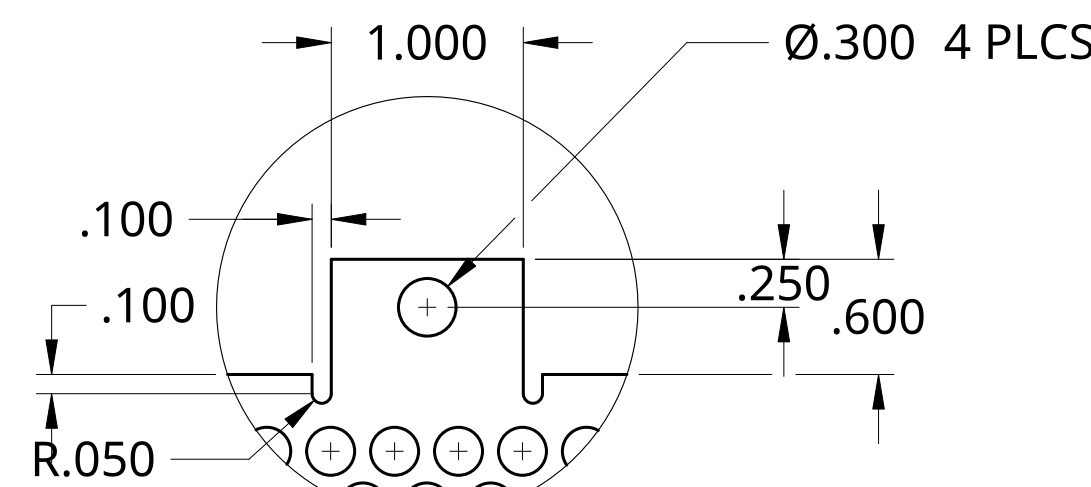
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A



DETAIL B
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SA-BLNK-CYL-AFR-16-BLK



DETAIL C
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				SHEET 3 OF 8	

D

C

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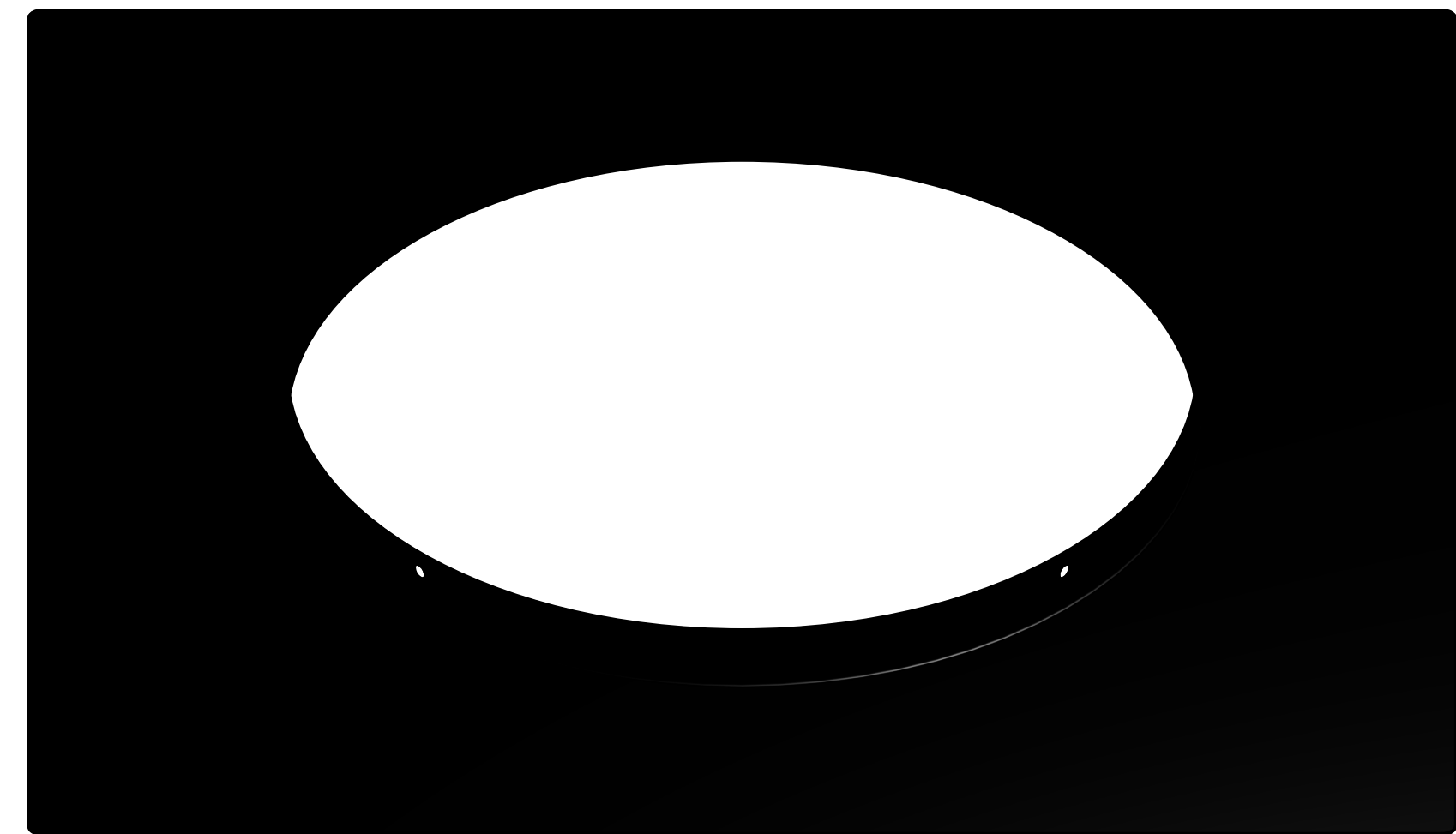
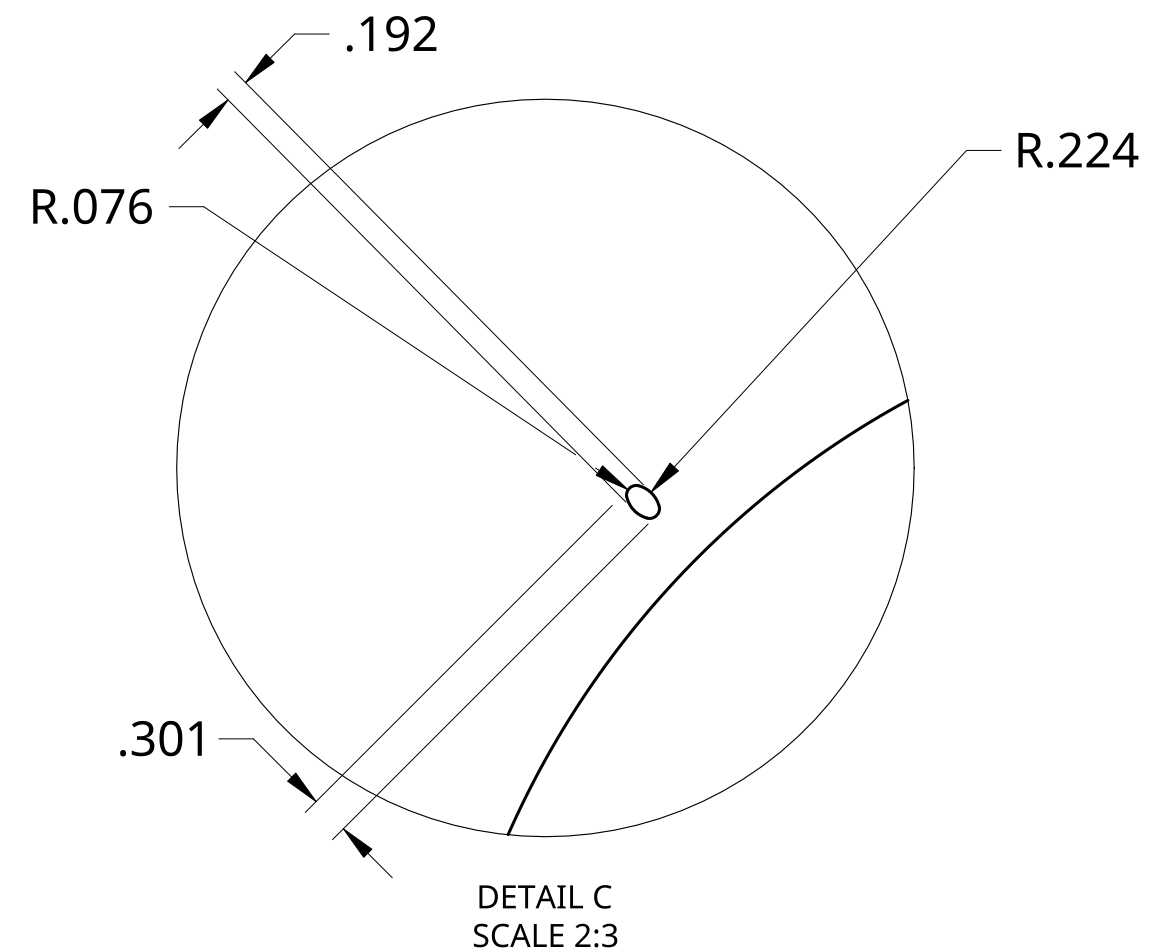
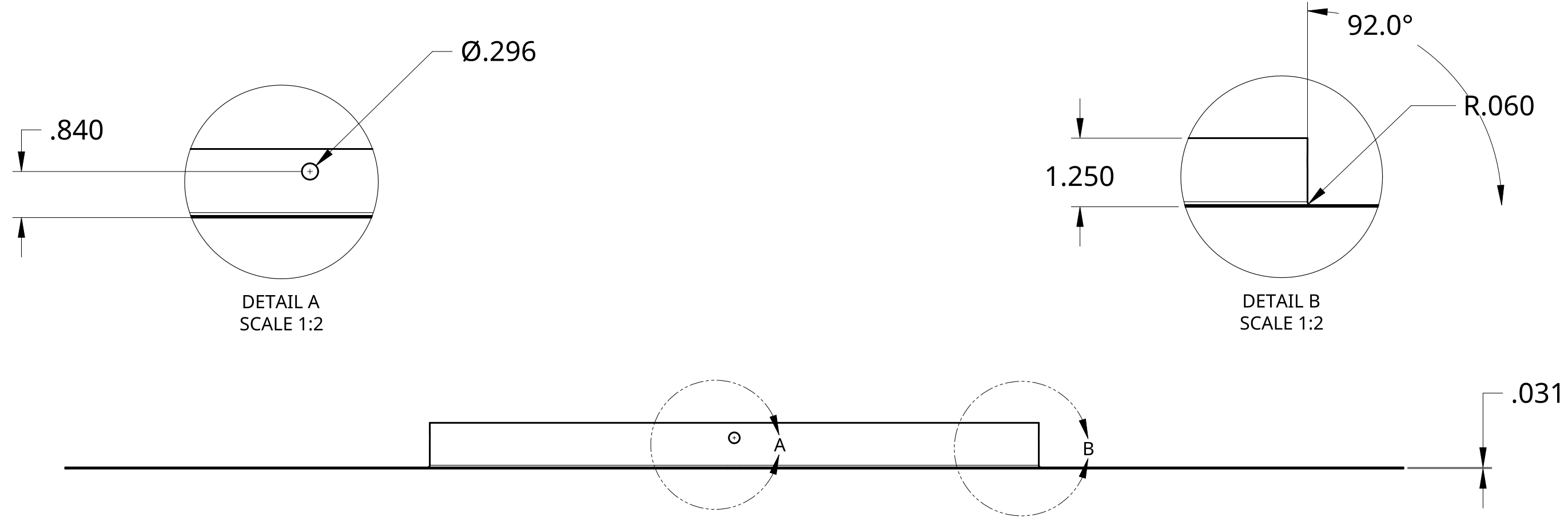
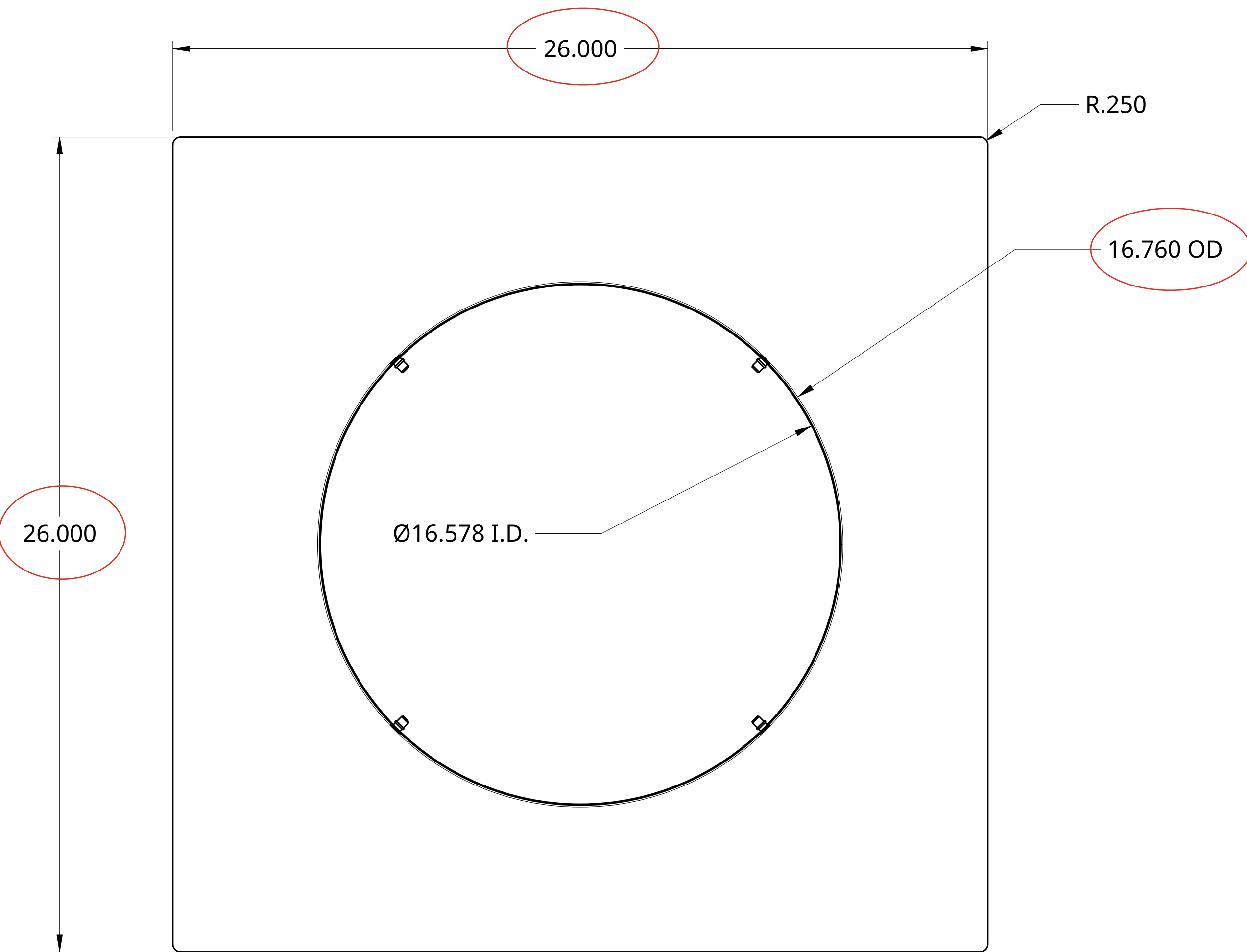
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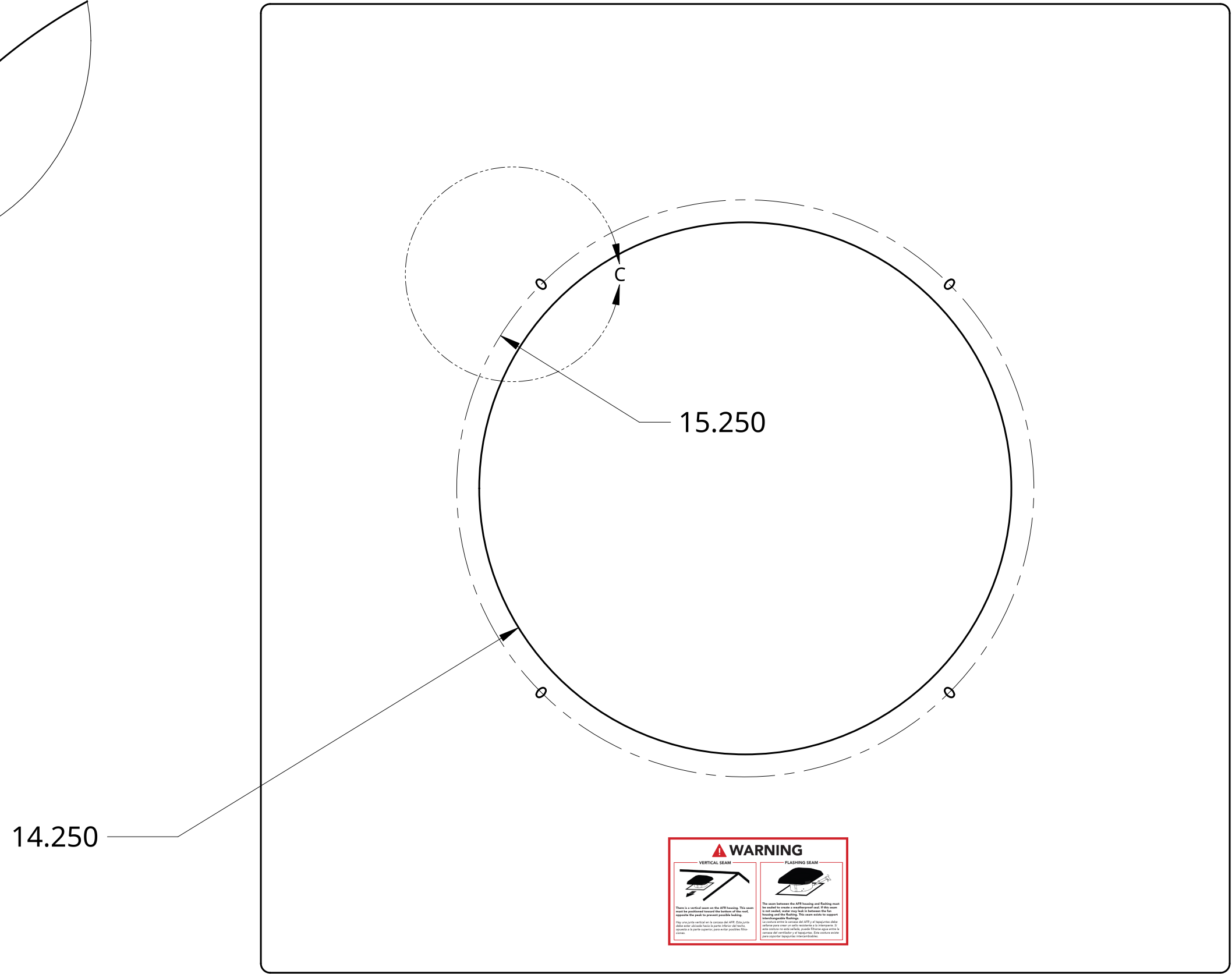
B

A

NOTE: MATERIAL - G90 , 22 GA, PPG APTB7541



FLASHING FLAT BLANK PATTERN



STICKER LOCATION BETWEEN PEM INSERTS



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	FILLT RADII .010-.032		
	CONCENTRICITY .010 TIR		
	PERPENDICULARITY .005/INCH		
	EDGE BREAK .002-.015		
	REMOVE ALL BURRS		
	SURFACE FINISH 125/		
	THREADS PER FED STD H-28		
	INTERPRET DRAWING PER STANDARDS PRESCRIBED IN: ASME Y14.100-2000		
	ASME Y14.5M 1994		
	ALL DIMENSIONS APPLY TO FINISHED PART AFTER ALL PROCESSING		
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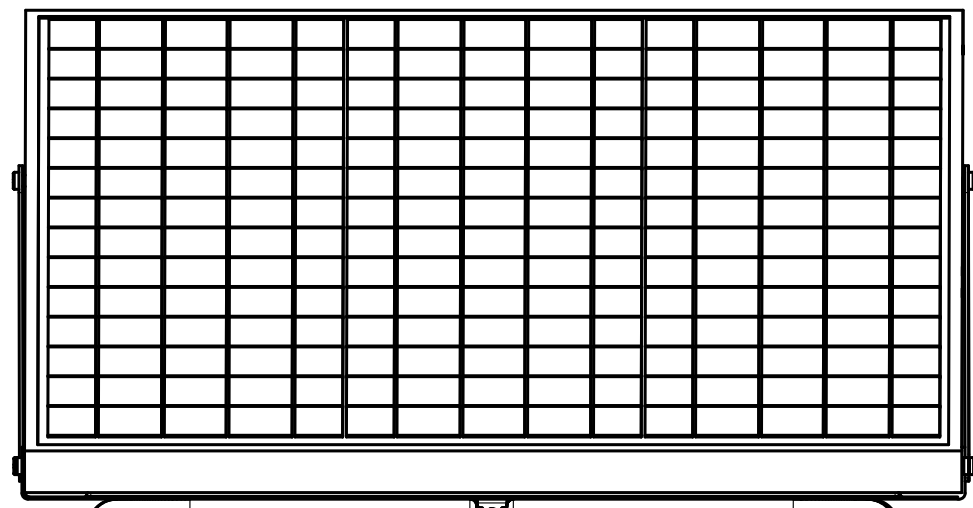
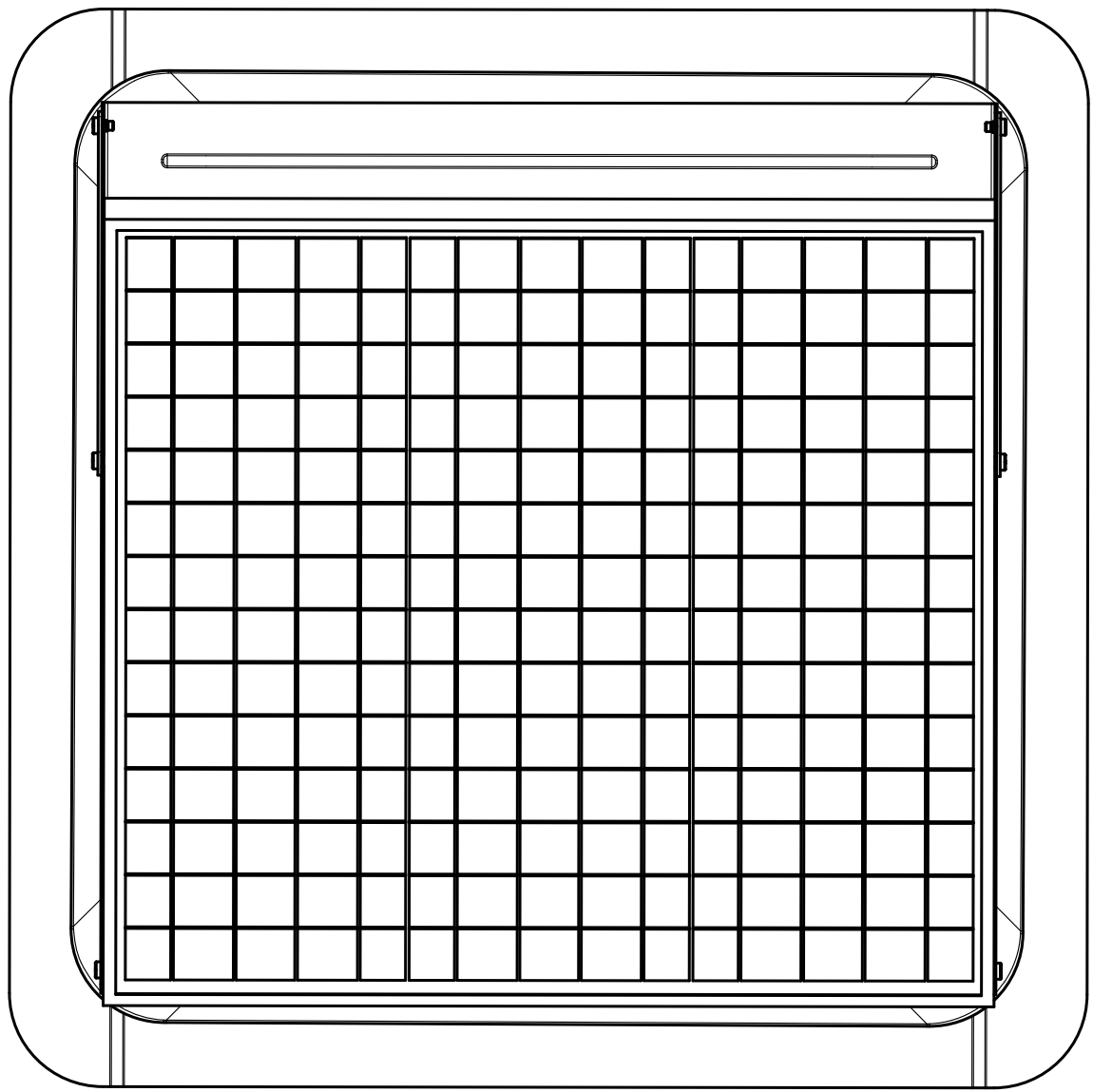
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FORM NO. ENG-0001-05 REV A		CALC. WT.:	SHEET 4 OF 8

NOTES: UNLESS OTHERWISE SPECIFIED

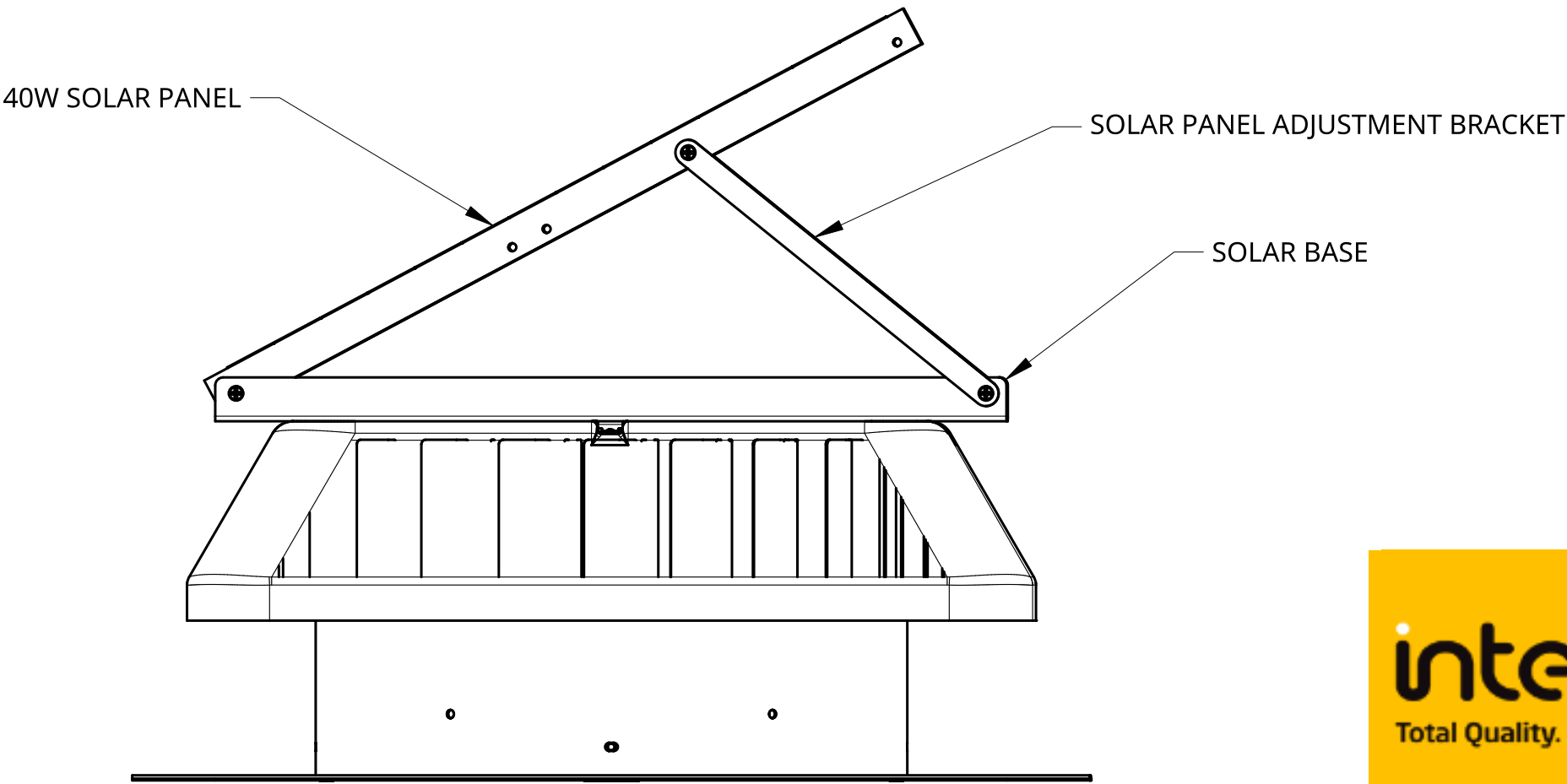
- 1 MATERIAL: G90, 20 GA STEEL (0.039")
- 2 FINISH: HIGH-QUALITY, UV RESISTANT BLACK POWDER COATING
- 3 REMOVE ALL BURRS AND SHARP EDGES.

REVISIONS				
ECO	REV	DESCRIPTION	DATE	APPROVED

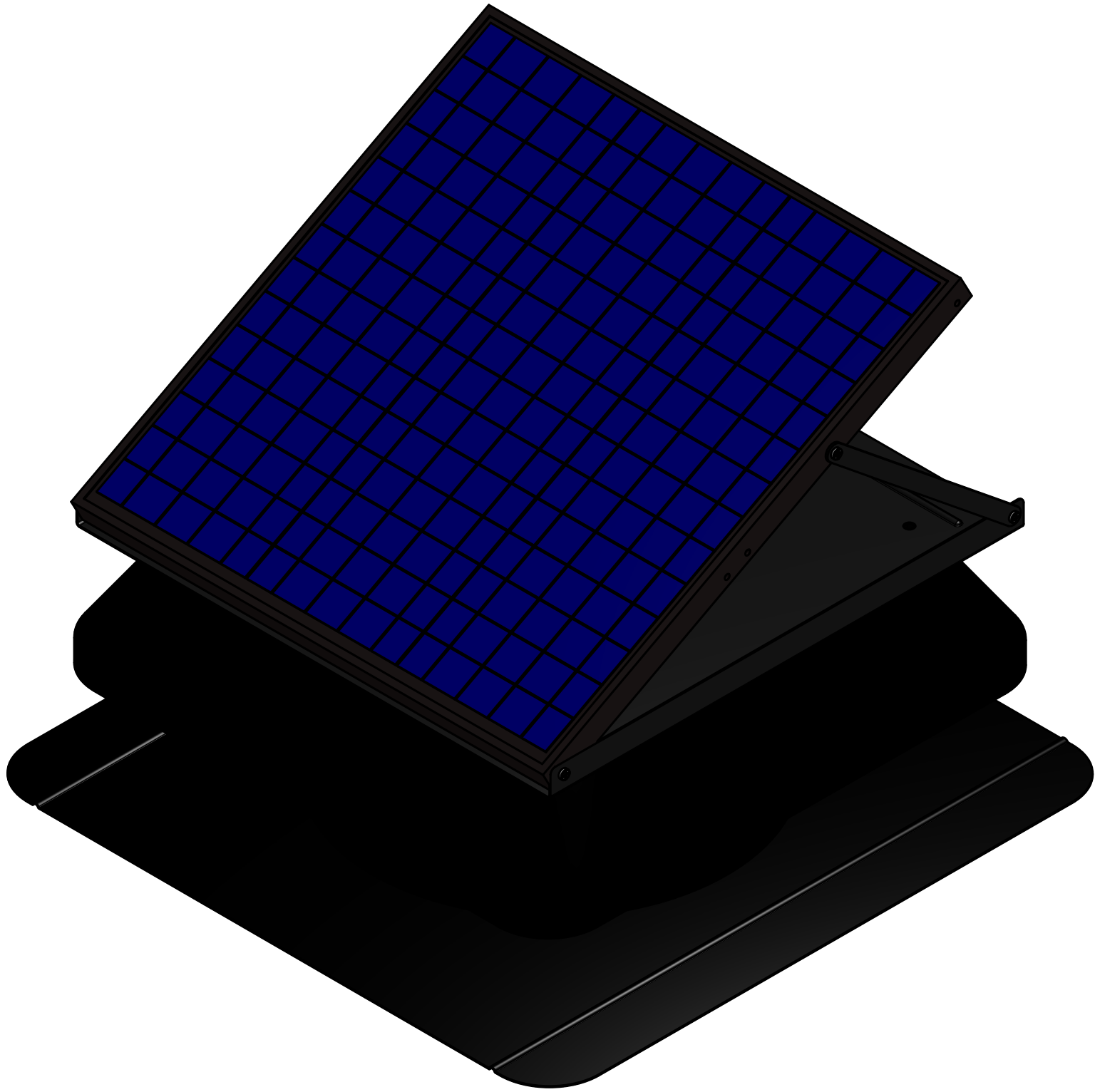
TOP VIEW



FRONT VIEW



SIDE VIEW





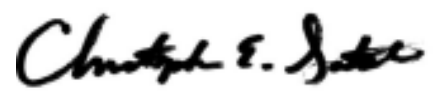
Report #:

R9731.01

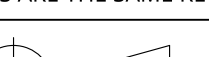
Date:

01/23/25

Verified by:



PRELIMINARY
01/10/2025
Q.C. MANUFACTURING

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	 THIRD ANGLE PROJECTION	-	-	TOLERANCE ON: 1 PLACE ±.1 2 PLACE ±.03 3 PLACE ±.010 ANGLE ±1° FRACTIONS ±1/16 FILLET RADII .010-.032 CONCENTRICITY .010 TIR PERPENDICULARITY .005/INCH EDGE BREAK .002-.015 REMOVE ALL BURRS SURFACE FINISH 125/ THREADS PER FED STD H-28 INTERPRET DRAWING PER STANDARDS PRESCRIBED IN: ASME Y14.100-2000 ASME Y14.5M 1994 ALL DIMENSIONS APPLY TO FINISHED PART AFTER ALL PROCESSING	DRAWN	DEREK CONRAD	10/03/2024
		-	-		CHECKED		
		-	-		ENGINEER		
		-	-		MFG ENG		
		-	-		MAT'L MGMT		
	PROPRIETARY NOTICE THIS DOCUMENT AND ITS CONTENTS ARE CONFIDENTIAL AND ARE PROTECTED BY TRADE SECRET, COPYRIGHT, AND OTHER APPLICABLE LAWS. IT IS TO BE USED ONLY AS AUTHORIZED BY QC MANUFACTURING INC. UNAUTHORIZED USE IS ILLEGAL.	-	-		QUALITY ENG		
	-	-					
	NEXT ASSY	USED ON			APPROVED		
	APPLICATION			DO NOT SCALE DRAWING			

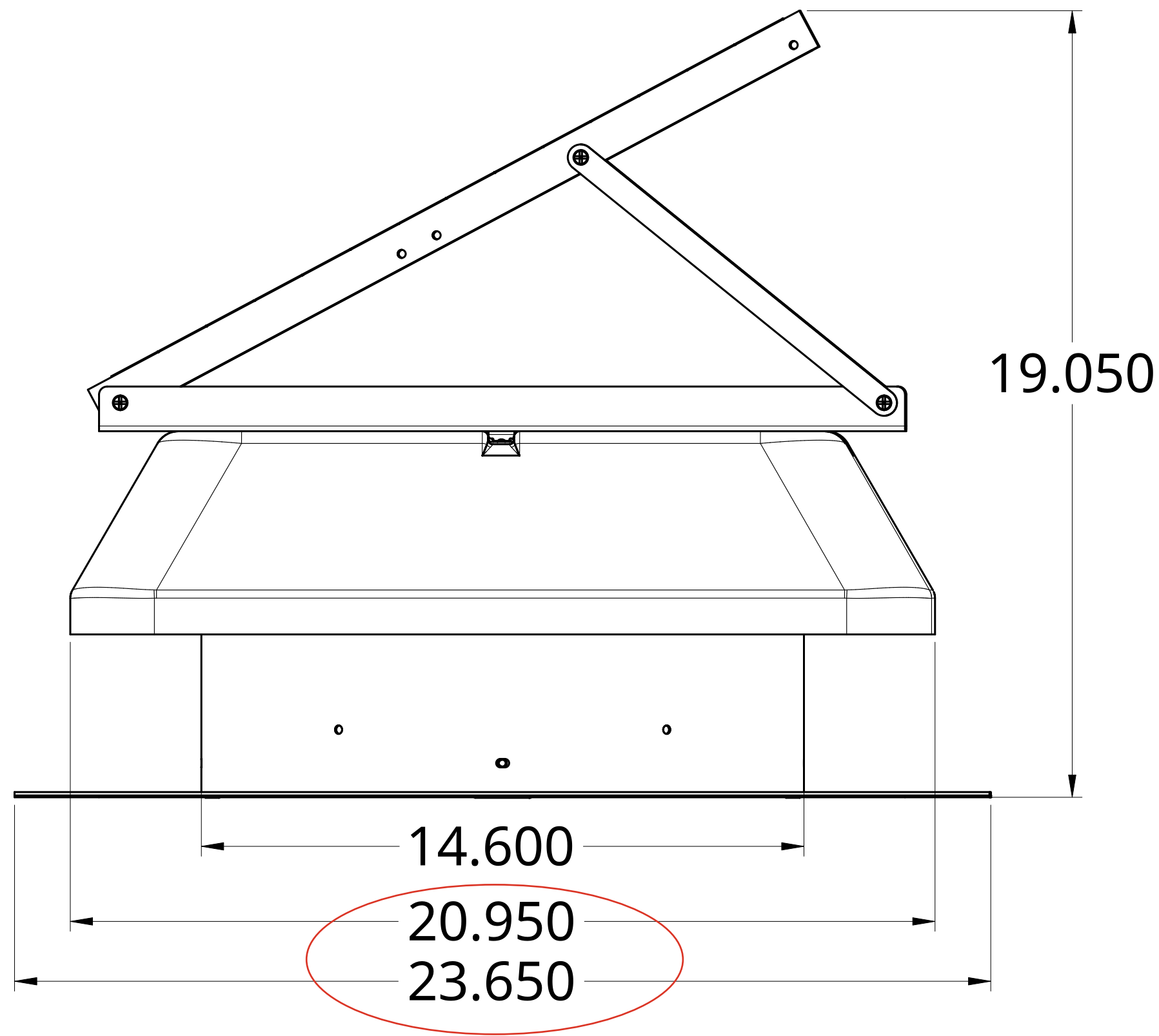
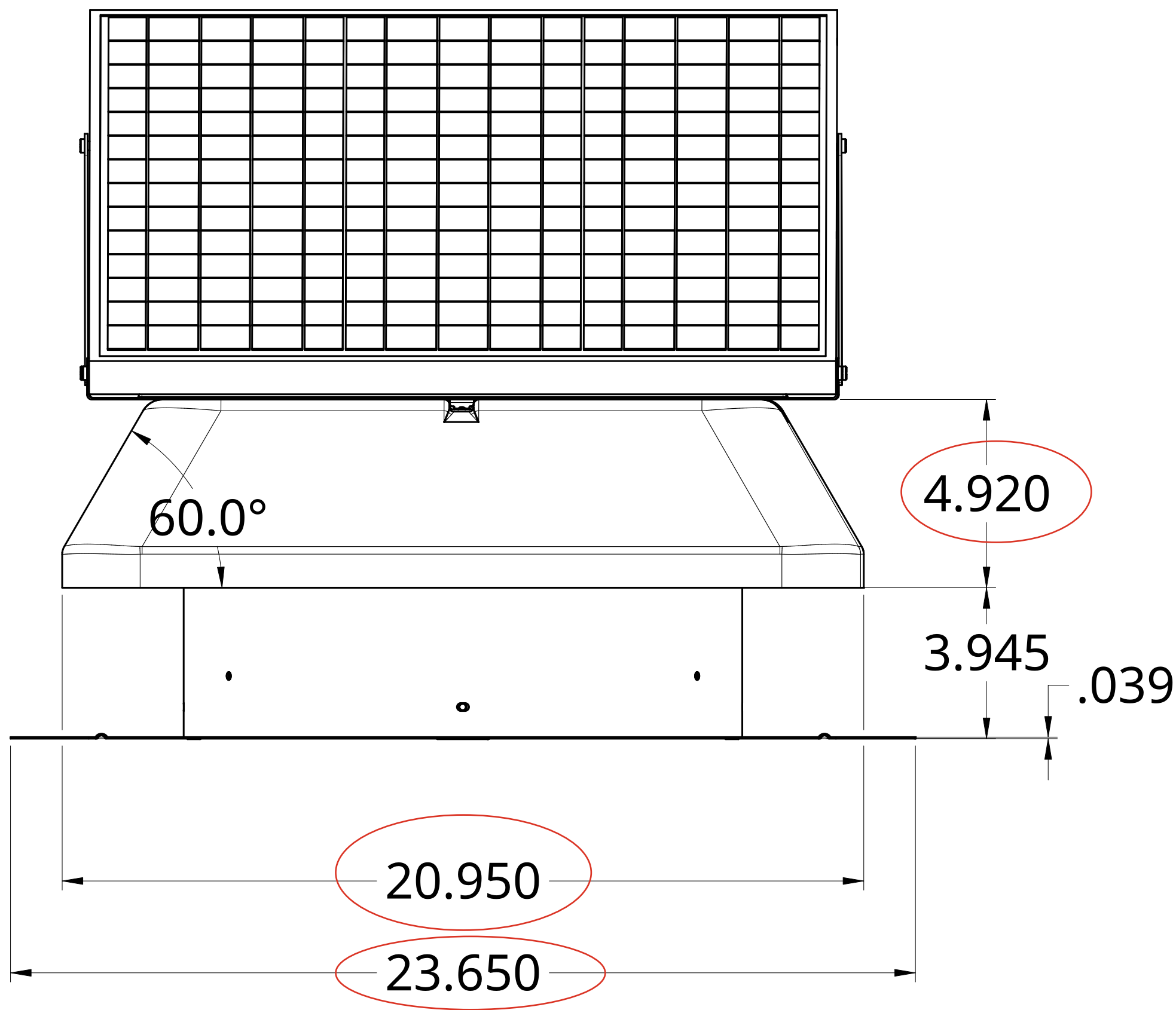
QTY	ITEM	PART NO.	DESCRIPTION	MATERIAL	CAGE
PARTS LIST					
 MAKERS OF THE QUIETCOOL ADVANCED WHOLE HOUSE FAN				QC MANUFACTURING INC. 26040 YNEZ RD. TEMECULA, CA 92591	
				DRAWING. NO. AFR SLR-40	
SIZE D	AFR SLR-40 ASSEMBLY				REV A
FORM NO. ENG-0001-SW REV B			SCALE:	CALC. WT.:	SHEET 1 OF 4

D

C

B

A





Total Quality. Assured.

Report #: R9731.01

Date: 01/23/25

Verified by: *Charles E. Jeter*

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SIZE	DWG. NO.	REV
D	FRONT & SIDE	A
FORM NO. ENG-0001-05	REV A	SCALE:
CALC. WT.:	SHEET	2 OF 4

D

C

B

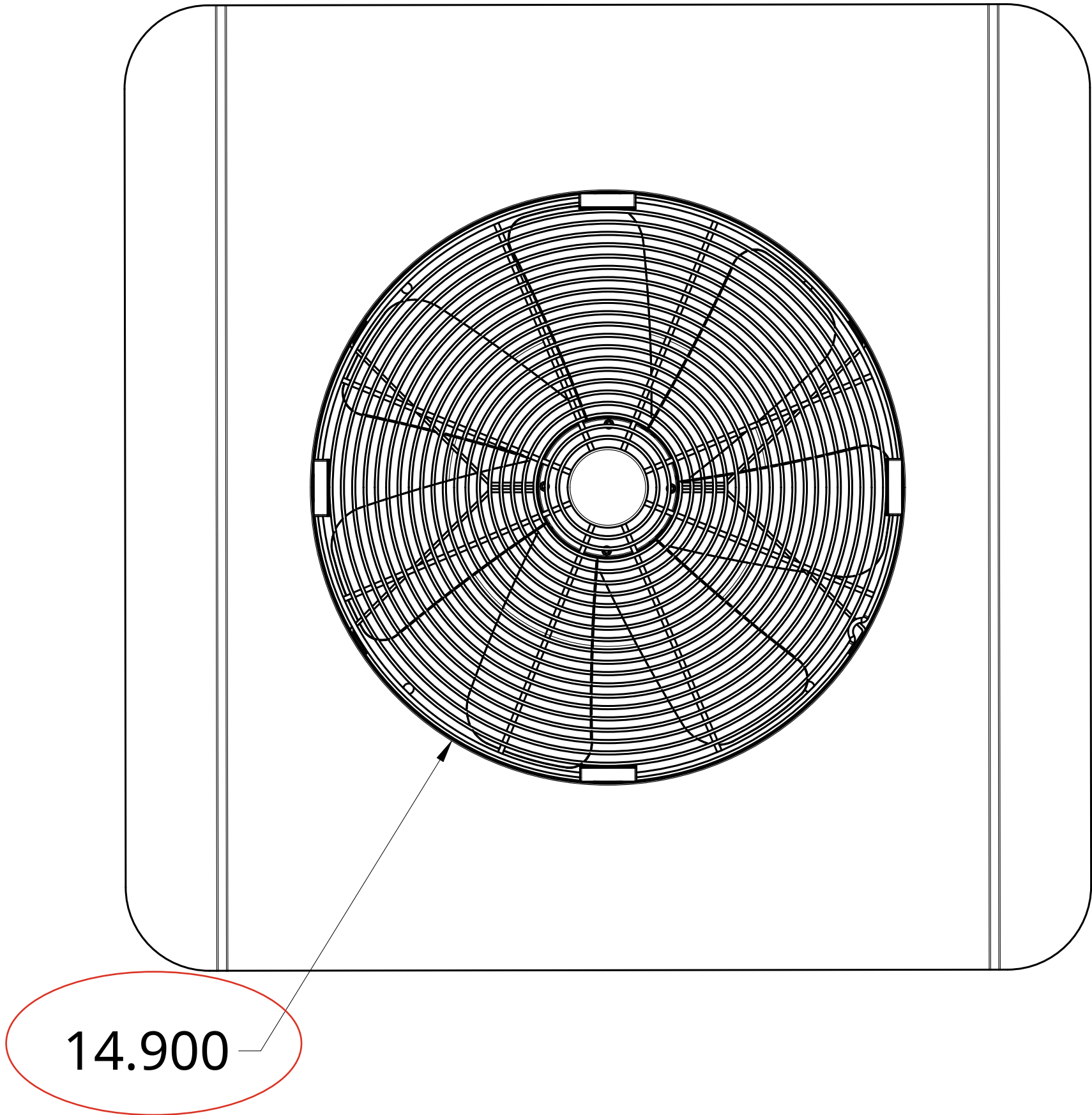
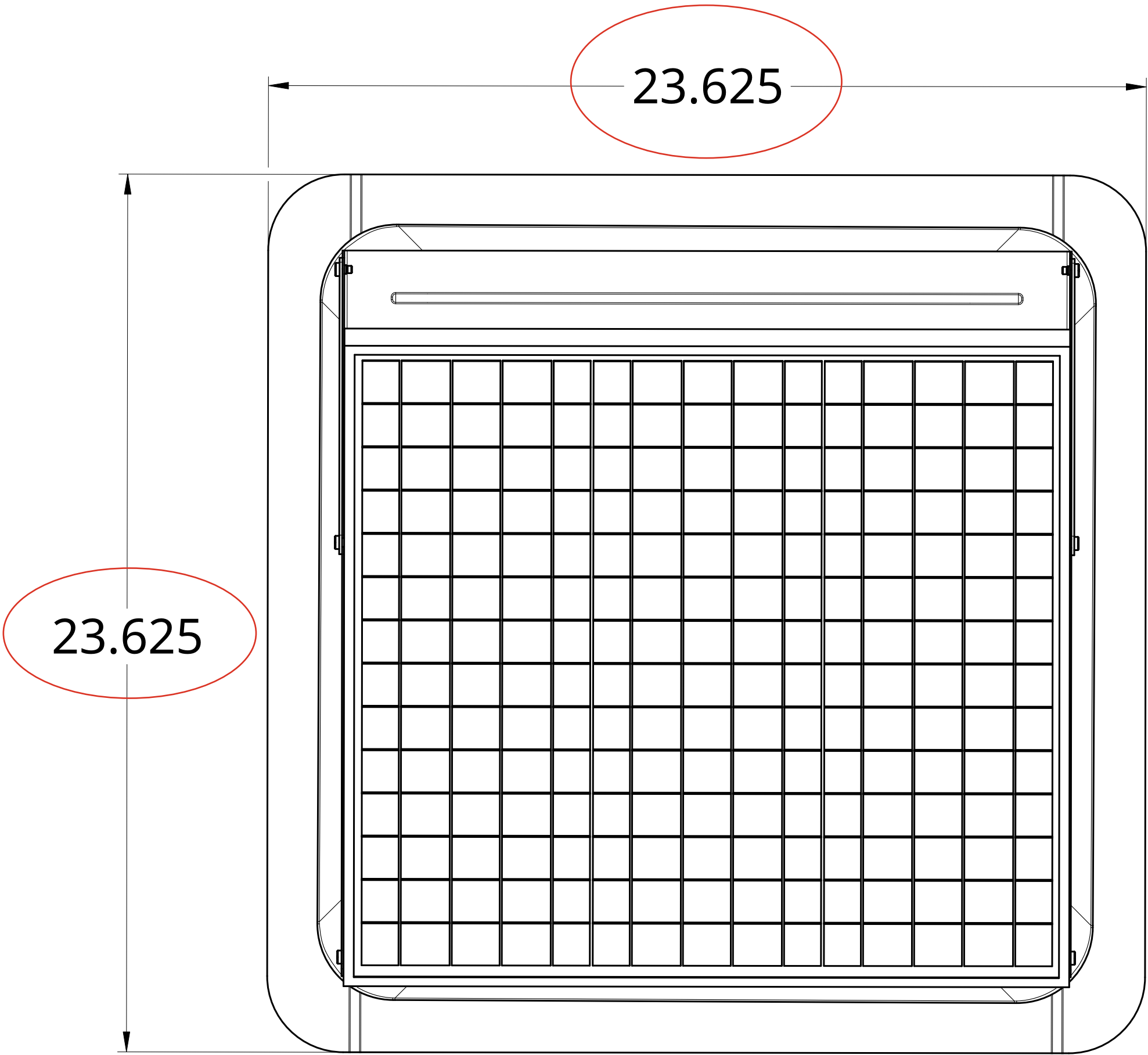
A

D

C

B

A





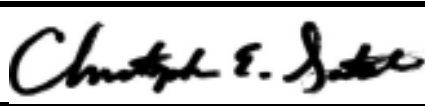
Report #:

R9731.01

Date:

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SIZE	DWG. NO.	REV
D	TOP & BOTTOM	A
FORM NO. ENG-0001-05 REV A	SCALE:	CALC. WT.:
SHEET	3 OF 4	

D

C

B

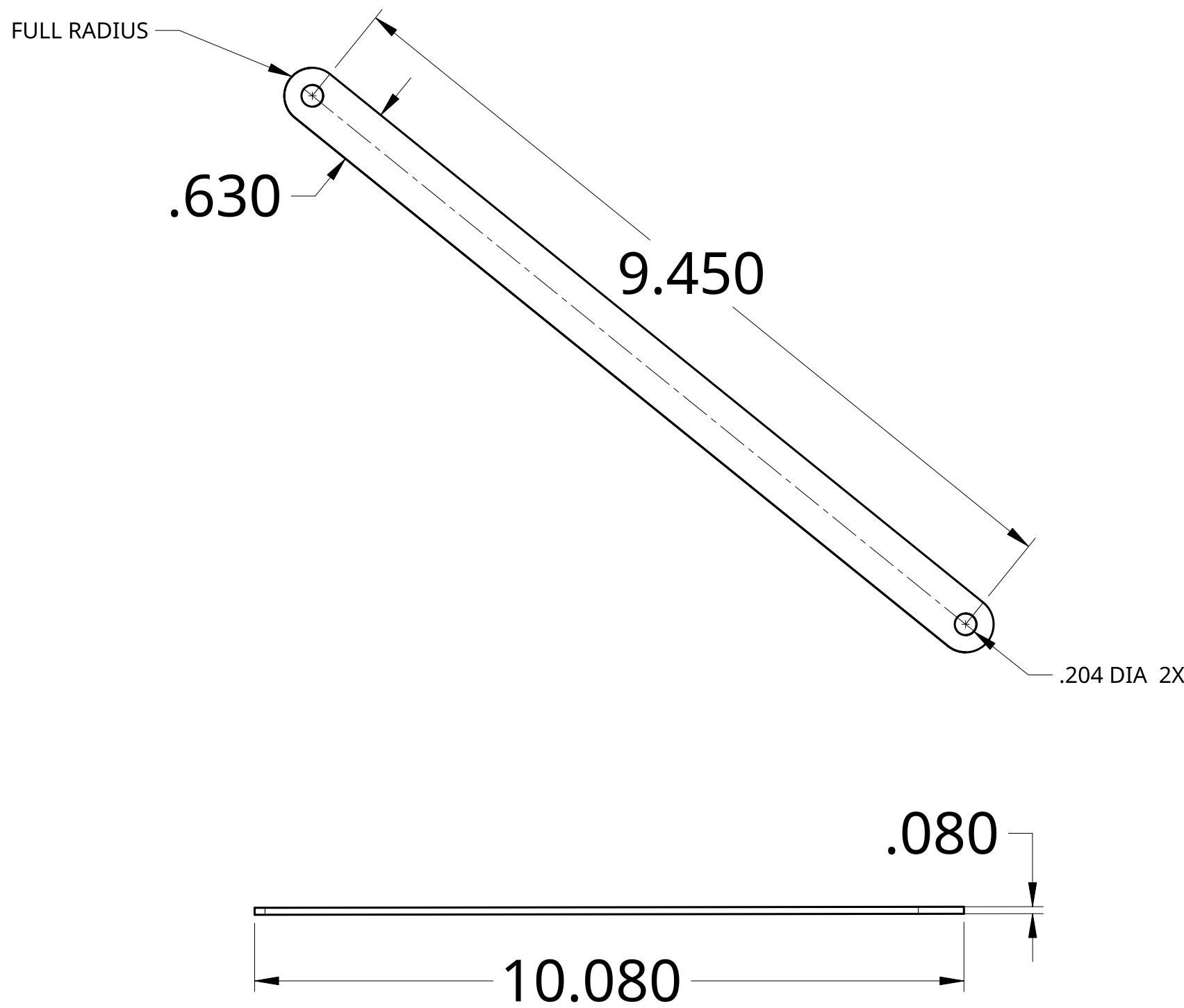
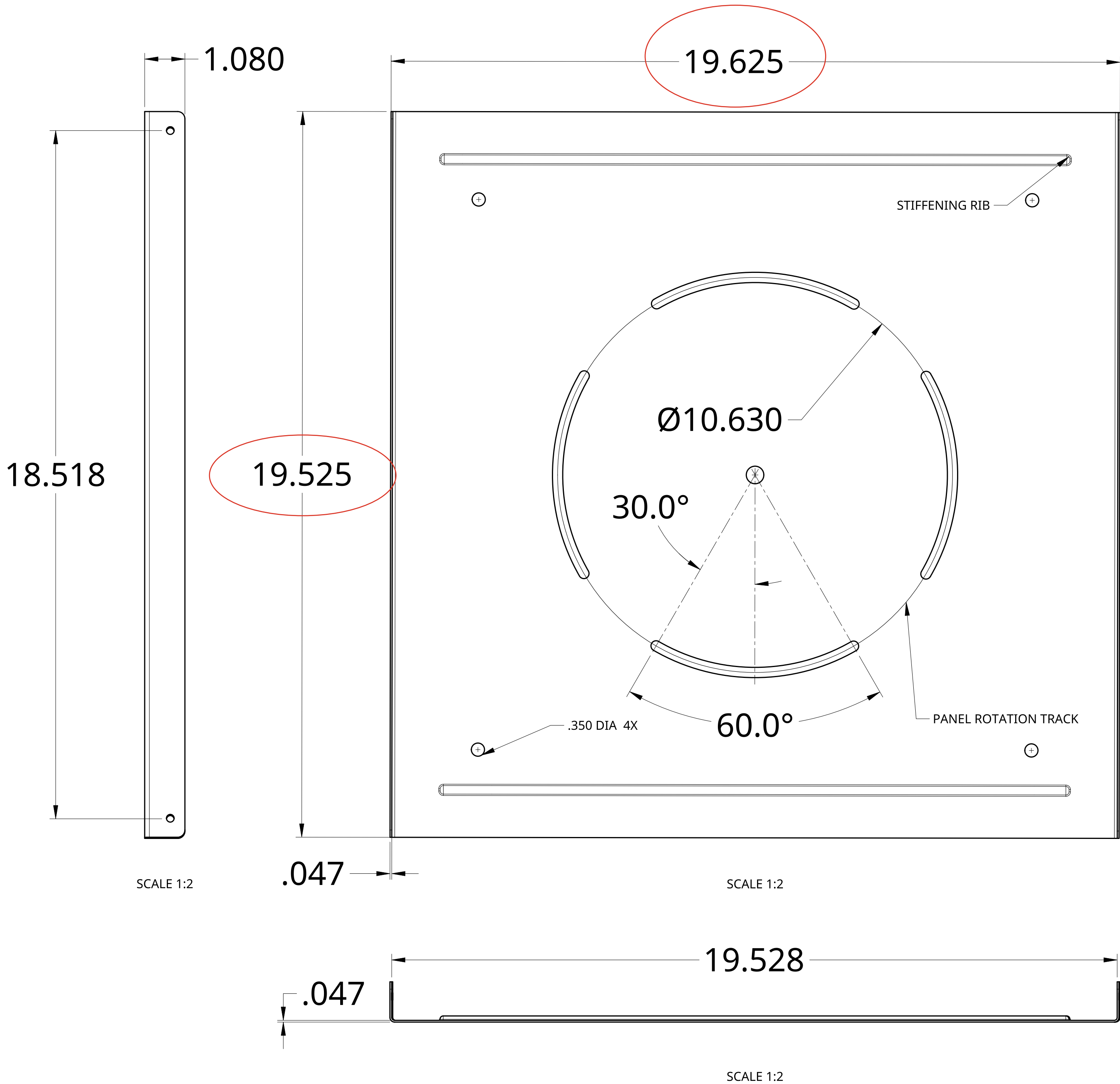
A

D

C

B

A





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Date: 01/23/25

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SIZE	DWG. NO.	REV
D	PANEL BASE & BRACKET	A
FORM NO. ENG-0001-05	REV A	SCALE:
CALC. WT.:	SHEET	4 OF 4



Total Quality. Assured.

130 Derry Court
York, Pennsylvania 17406

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

TEST REPORT FOR QC MANUFACTURING INC.

Report No.: R9731.01-109-18

Date: 03/20/25

SECTION 11

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	03/20/25	N/A	Original Report Issue