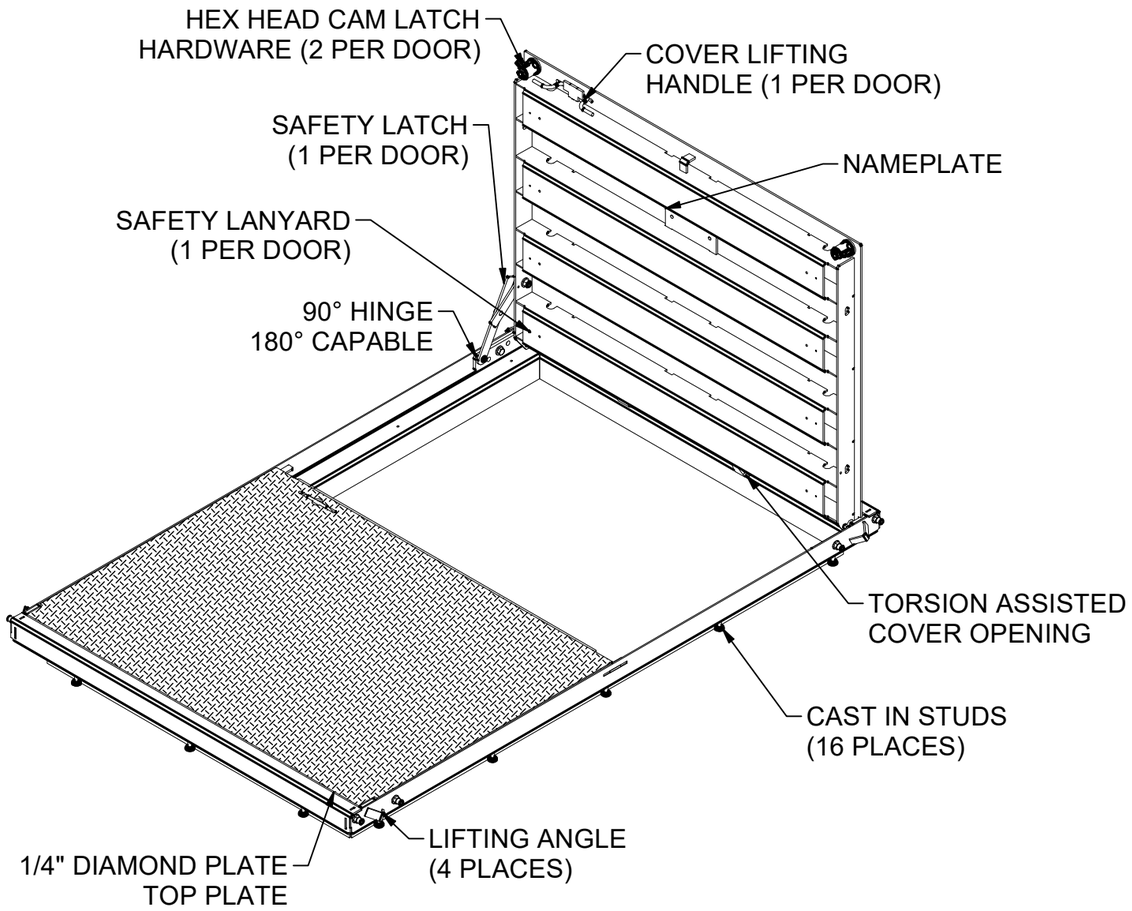
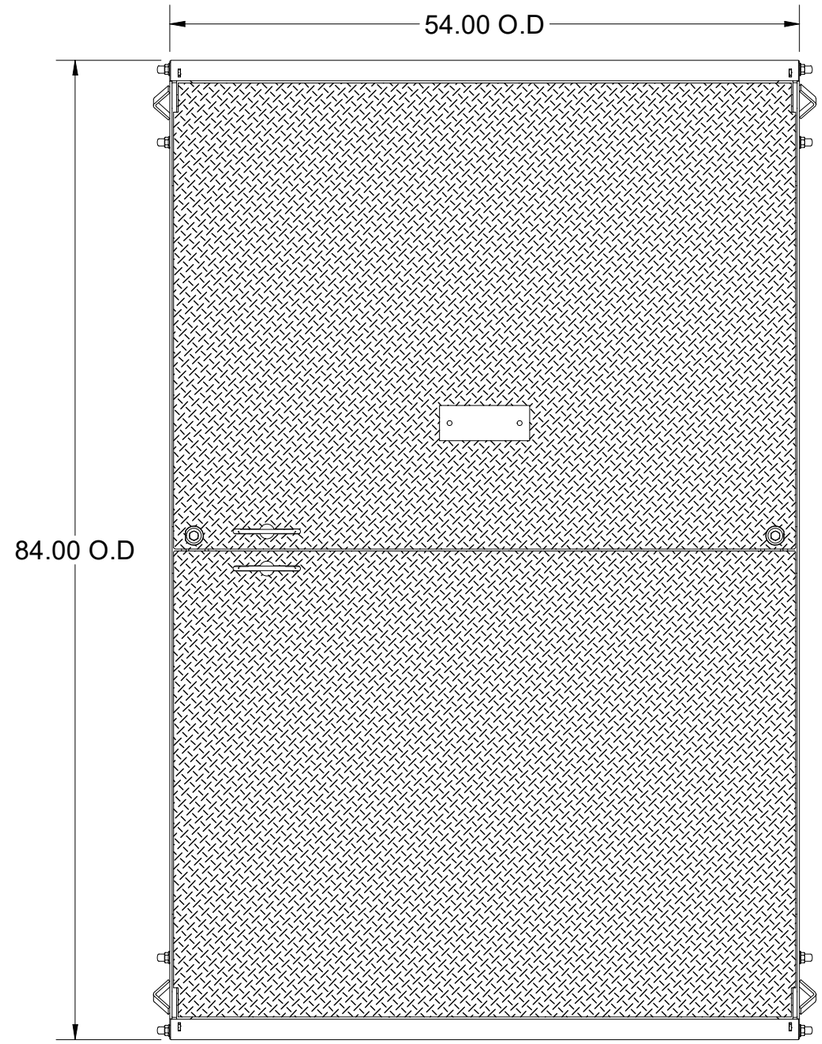
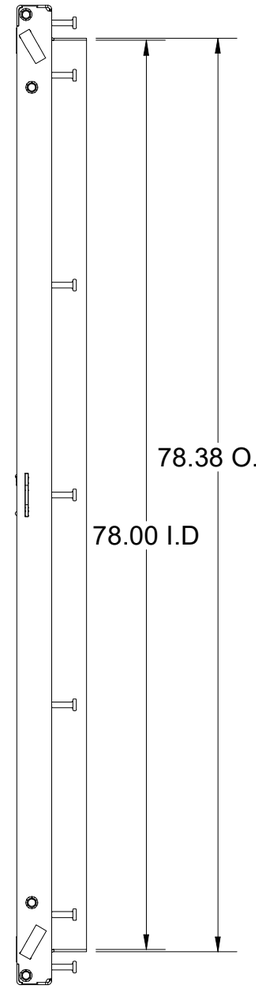
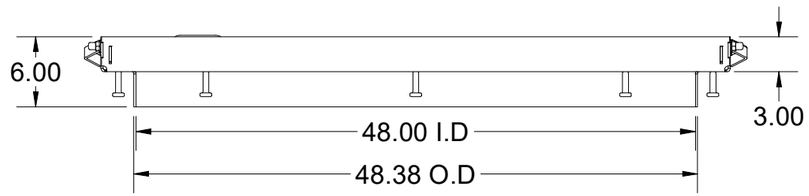








100009352.idw

LOADING CRITERIA: ASTM C1802 Load Level 04

16,000 lb load on 10" x 20" footprint, without impact restricted to parking spaces and areas within close proximity of roadways.

SURFACE:	Diamond Plate	FINISH:	Galvanized
WEIGHT:	750.84 lbs	MARKING:	None

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DESCRIPTION: CAS2-4878-CH4-DP-G-CL-FONT-OH06

48x78 Standard Cover Assembly (Loading Criteria Per ASTM C1802 Load Level 04, Steel, Hinged, Handle (1 Per Door), Diamond Plate, Galvanized) 06

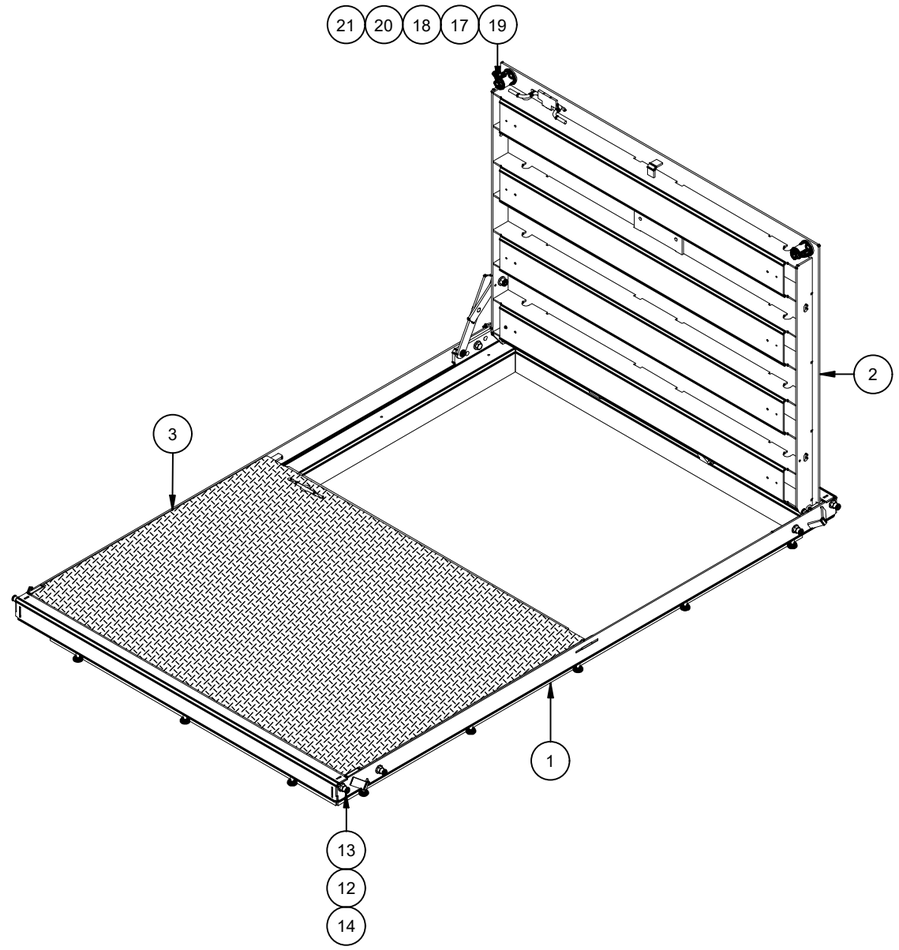
REV: E-1-1

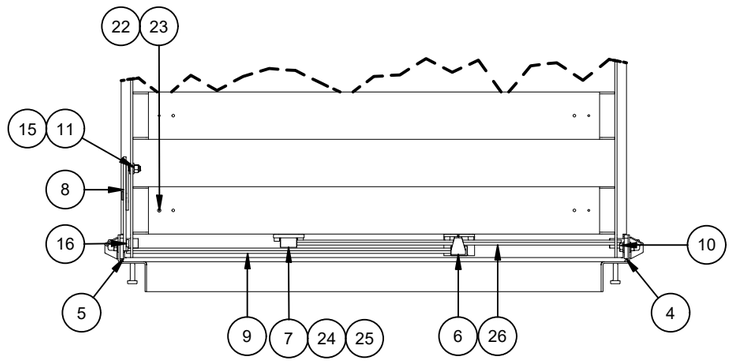
SHEET: 1

PART NUMBER:	100009352	DRAWN BY:	C. Heywood
CREATED:	7/24/2025	MODIFIED:	9/11/2025

BILL OF MATERIALS

ITEM	ITEM QTY	QTY	PART NUMBER	DESCRIPTION	PART NAME
1	1	1	200103960	FAS-4878-CH4-R-OH06	200103960
2	1	1	200103975	DAS2-T-4878-H4-DP-R-CL	200103975
3	1	1	200103976	DAS2-B-4878-H4-DP-R-CL	200103976
4	2	2	100007660	Hinge Assembly, Right, 1/2, Steel	100007660
5	2	2	100007661	Hinge Assembly, Left, 9/16, Steel	100007661
6	2	2	100007682	OFFSET SPRING MOUNT .562	100007682
7	2	2	100007671	SPRING MOUNT ASSY .500	100007671
8	2	2	100007933	SAFETY LATCH ASSY FOR UNI AND 90 D HINGE	100007933
9	2	2	100007896	TORSION HEX ROD 9/16 X 36 RAW	100007896
10	4	4	100003823	Hex Bolt 1/2-13 UNC ZINC - PT - 1.5"	100003823
11	8	8	100011418	WASHER FLAT 1/2 NARROW ZINC	100011418
12	8	8	100026256	LOW-STRENGTH STEEL FLANGE NUT, 1/2" - 13 THREAD SIZE	100026256
13	8	8	100007939	CAP VINYL .467 X 1/2	100007939
14	4	4	100007869	BOLT SOCKET CAP - 1/2-13 UNC - 1.75 - 316SS	100007869
15	2	2	100007492	HEX NUT NYLOCK - 1/2-13 UNC - GR5 - ZINC	100007492
16	2	2	100007876	Bolt Shoulder Socket Head - 3/8-16 UNC - SD-0.5" - SL-0.3125" - Grade 5 - Zinc	100007876
17	2	2	100007915	SPRING COMPRESSION 055 X 5/8 X 7/8 LONG	100007915
18	2	2	100007857	NUT FINGER 1/2-13 BRASS	100007857
19	2	2	100007729	HEX NUT SLOTTED CASTLE HEAD 1/2-13 SS	100007729
20	2	2	100007918	Cotter Pin 0.094x1.25" 18-8SS	100007918
21	2	2	100011407	Hex Bolt 1/2-13 UNC ZINC - PT - 2.25"	100011407
22	2	2	100007924	LANYARD 3/64 W/PIN COATED SS	100007924
23	2	2	100007882	Rivet Blind Grip .1875" Large Domed Head Range-0.376-0.5" Steel	100007882
24	8	8	100007859	RIVET NUT 3/8-16 FLAT KNURLED	100007859
25	8	8	100007873	BOLT SOCKET CAP - 3/8-16 UNC - 1.25 - ZINC	100007873
26	2	2	100007727	TORSION HEX ROD .5 x 36in RAW	100007727





SECTION A-A
SCALE 1/16

REVISION HISTORY		
DESCRIPTION	DATE	REVISED BY
INITIAL RELEASE	4/03/2015	SB
4272 - ADDED NEW DOUBLER, UPDATED SHEET FORMATS, GALV, DRAIN HOLES.	10/22/2014	C. SHANE
5639 - UPDATED DOOR TO CAST CAM TOWERS	4/06/15	CS
7199 - UPDATED TO MATCH CALCS	8/27/2015	BW
57884-1: CONVERTED TO INVENTOR. CHANGED THE NAME PLATE LOCATION. UPDATED LAP BAR, CATCH PLATES, TORSION ASSIST AND LIFTING CALCS. REPLACED ALL PEM NUTS TO FLANGE NUTS.	7/24/2025	COLLIN HEYWOOD

MATERIAL FINISH: Galvanized

MATERIAL SURFACE: Diamond Plate

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PART NUMBER & DESCRIPTION: 100009352
CAS2-4878-CH4-DP-G-CL-FONT-OH06

REV: E-1-1

WEIGHT: 750.84 Lbs

DRAWN BY: C. Heywood

SHEET: 2

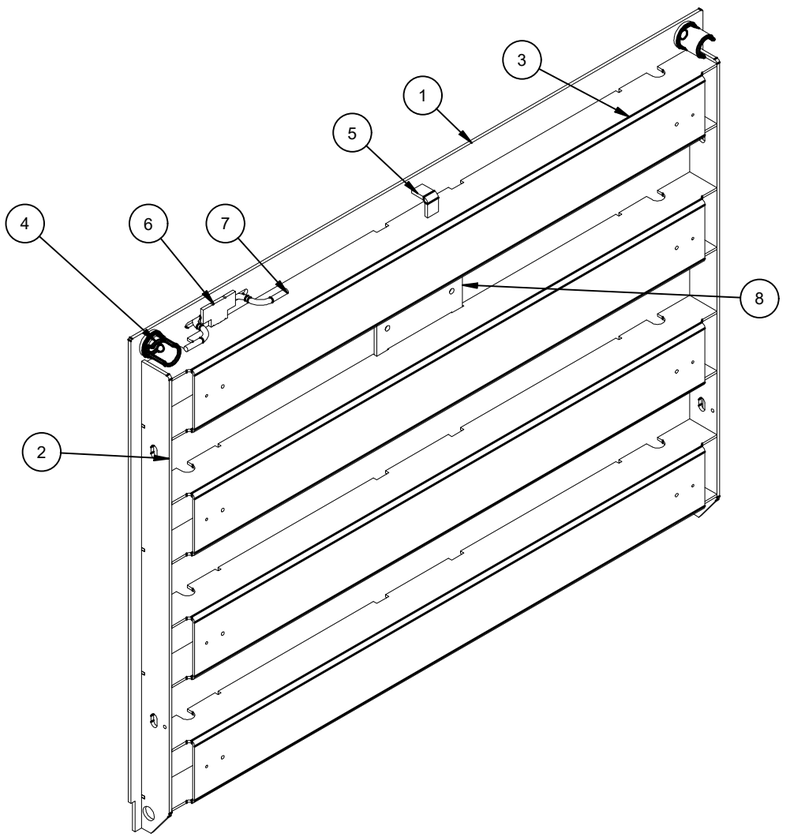
CREATED: 7/24/2025

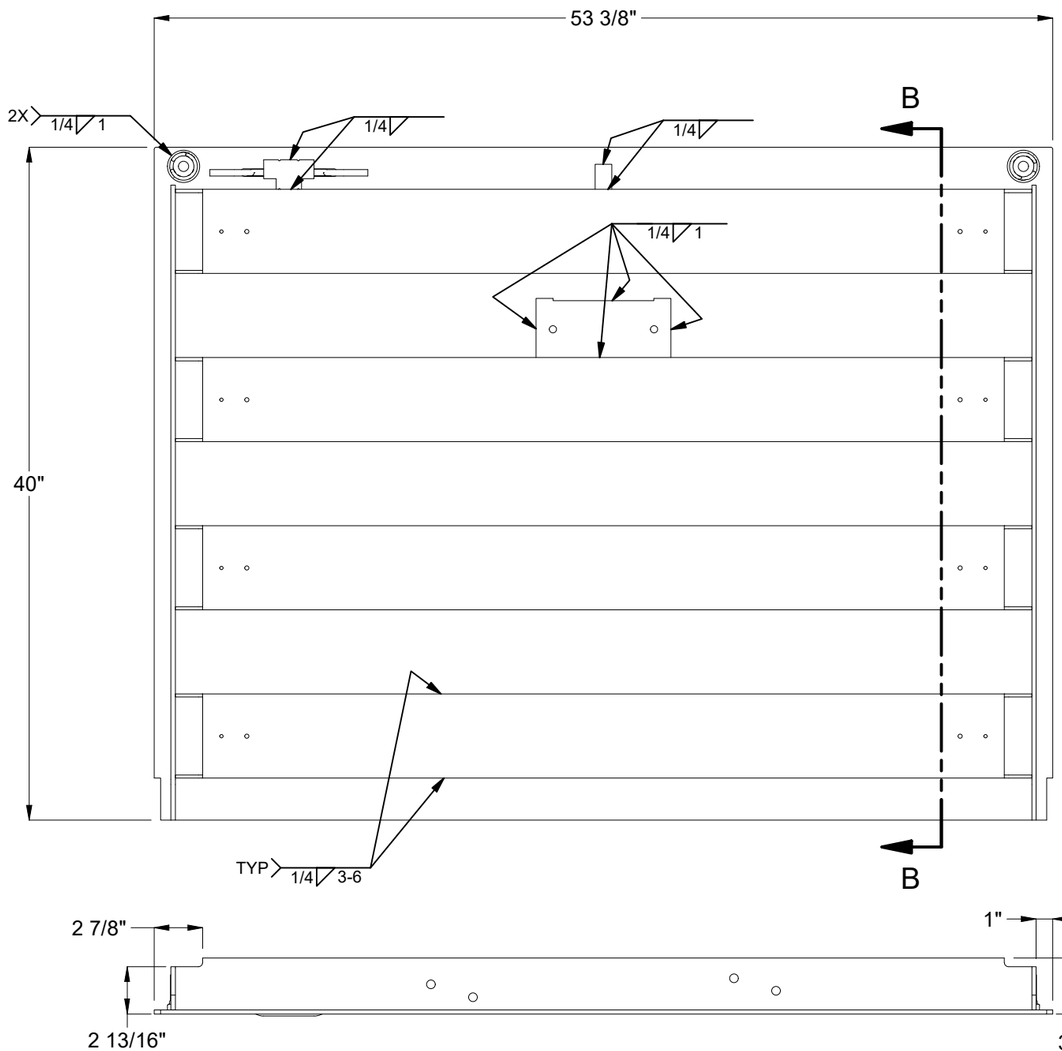
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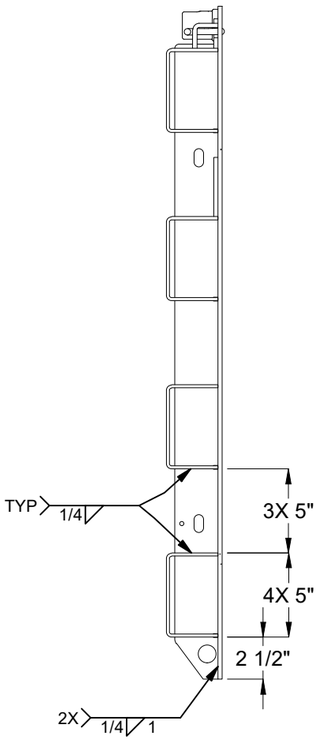
100009352.idw

BILL OF MATERIALS

ITEM	ITEM QTY	QTY	PART NUMBER	DESCRIPTION	PART NAME
1	1	164.223 lbmass	100007736	Door Component Steel Plate, Top	200103968
2	2	12.817 lbmass	100007735	Door Component Steel Side Bar	200103969
3	4	109.789 lbmass	100007821	Door Component Steel Channel	200103966
4	2	2	100007970	CAM TOWER CAST STEEL	100007970
5	1	1	100007647	LIFTING BRACKET STEEL LEAF	100007647
6	1	1	100007646	HANDLE RETAINER STL	100007646
7	1	1	100007644	LEAF PULL HANDLE A36 3/8IN DIAMETER	100007644
8	1	1	100007685	NAME PLATE BACKING PLATE	100007685







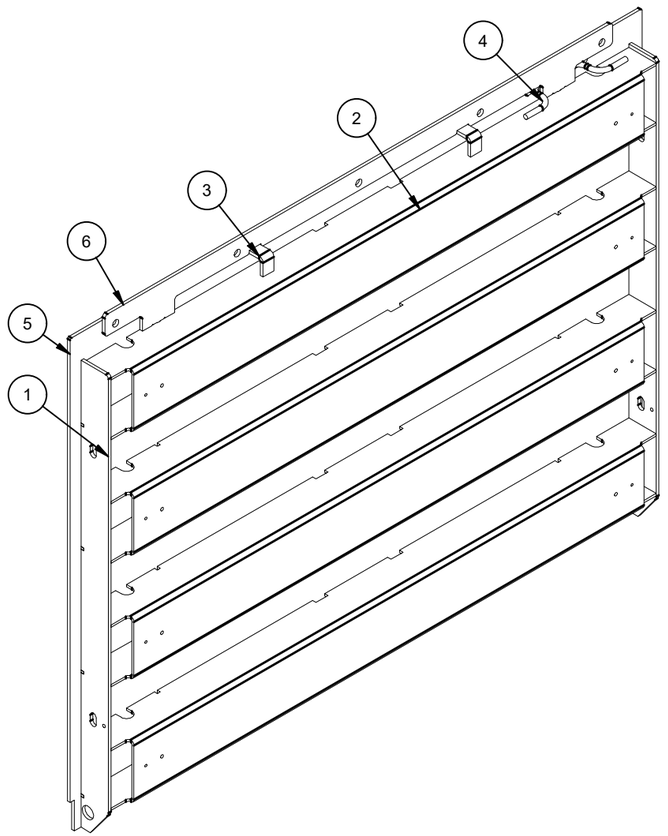
SECTION B-B
SCALE 1/9

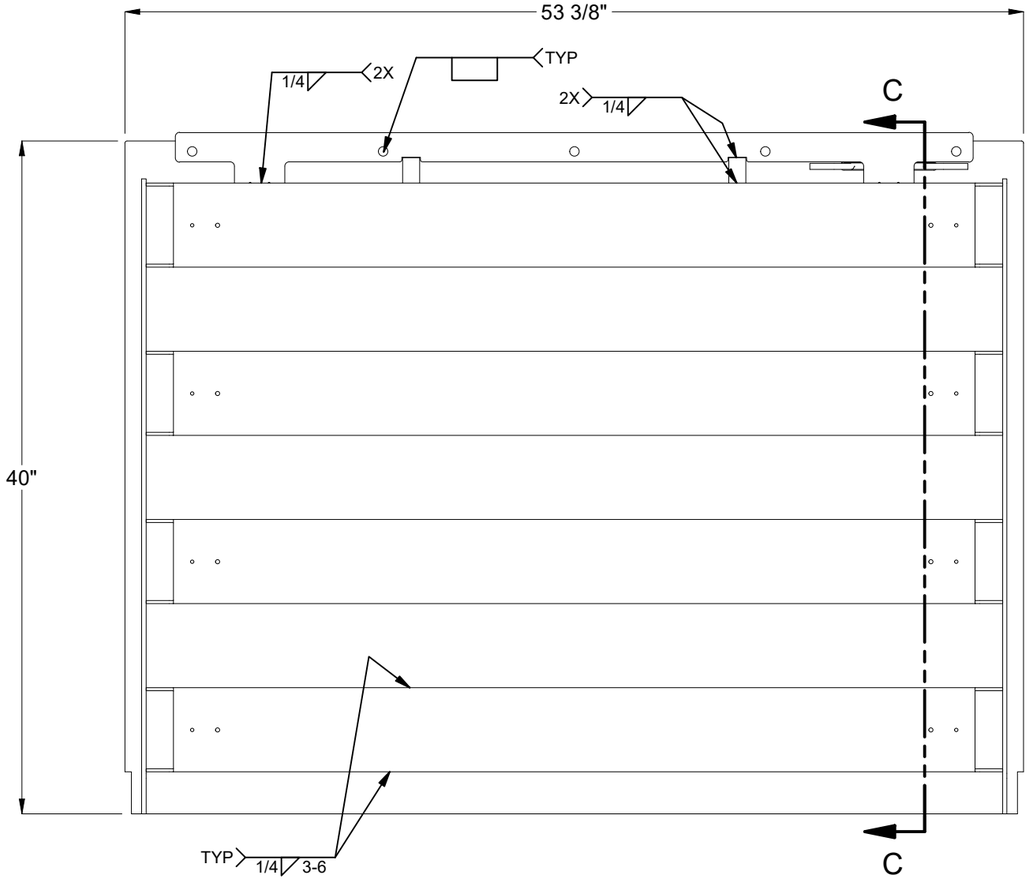
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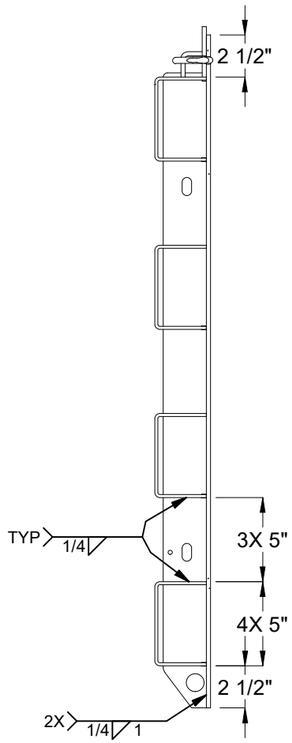
MATERIAL FINISH: Raw	Infrastructure JENSEN 527 Dunn Circle, Sparks, NV 89431 775-352-2716 FAX: 755-358-8127 *JENSENMETALTECH.COM*	©2025 Jensen Infrastructure - All rights reserved. All materials appearing as Jensen Infrastructure documents and the like are proprietary work product and are protected under U.S. copyright and other laws. Unless in conjunction with business conducted with Jensen Infrastructure , any use of Jensen Infrastructure work product without express, written consent is prohibited, and recipient is prohibited from distributing any and all work product to non-approved third parties under penalty of civil action. This product shall only be produced in a Jensen Infrastructure facility.	PART NUMBER & DESCRIPTION: 200103975 DAS2-T-4878-H4-DP-R-CL — REV: E-1-1
MATERIAL SURFACE: Diamond Plate			WEIGHT: 290.54 Lbs — DRAWN BY: C. Heywood — SHEET: 3
			CREATED: 7/24/2025 — MODIFIED: 9/11/2025

BILL OF MATERIALS

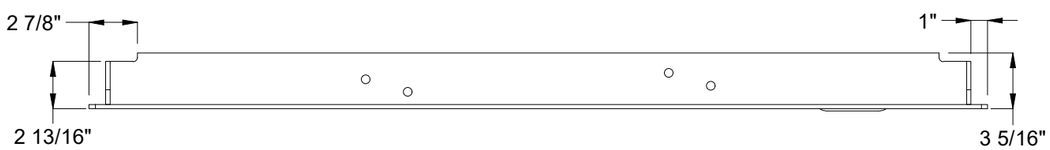
ITEM	ITEM QTY	QTY	PART NUMBER	DESCRIPTION	PART NAME
1	2	12.817 lbmass	100007735	Door Component Steel Side Bar	200103969
2	4	109.789 lbmass	100007821	Door Component Steel Channel	200103966
3	2	2	100007647	LIFTING BRACKET STEEL LEAF	100007647
4	1	1	100007644	LEAF PULL HANDLE A36 3/8IN DIAMETER	100007644
5	1	166.426 lbmass	100007736	Door Component Steel Plate, Bottom	200103967
6	1	6.293 lbmass	100007735	Door Component Steel Lap Bar 48in, 2.5" Stiffener Offset	200087252







SECTION C-C
SCALE 1/9

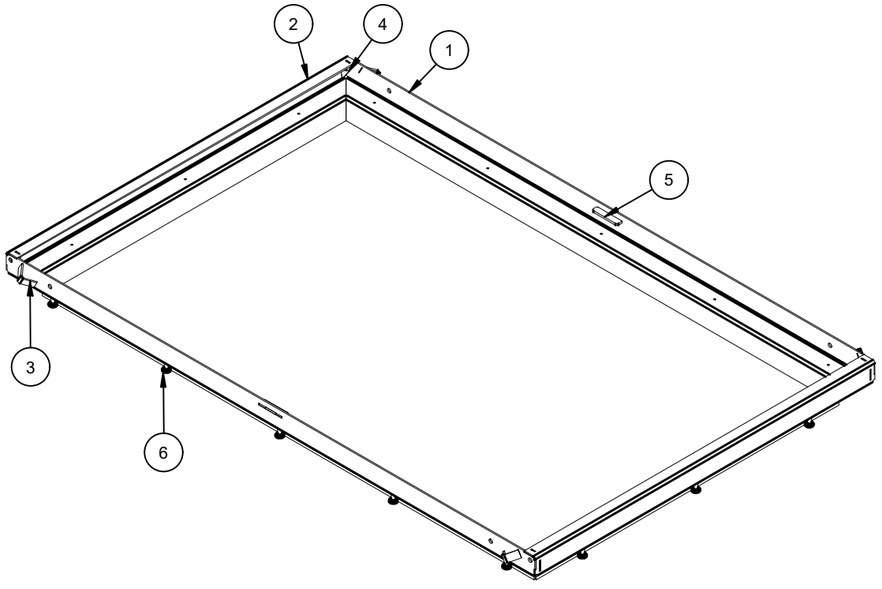


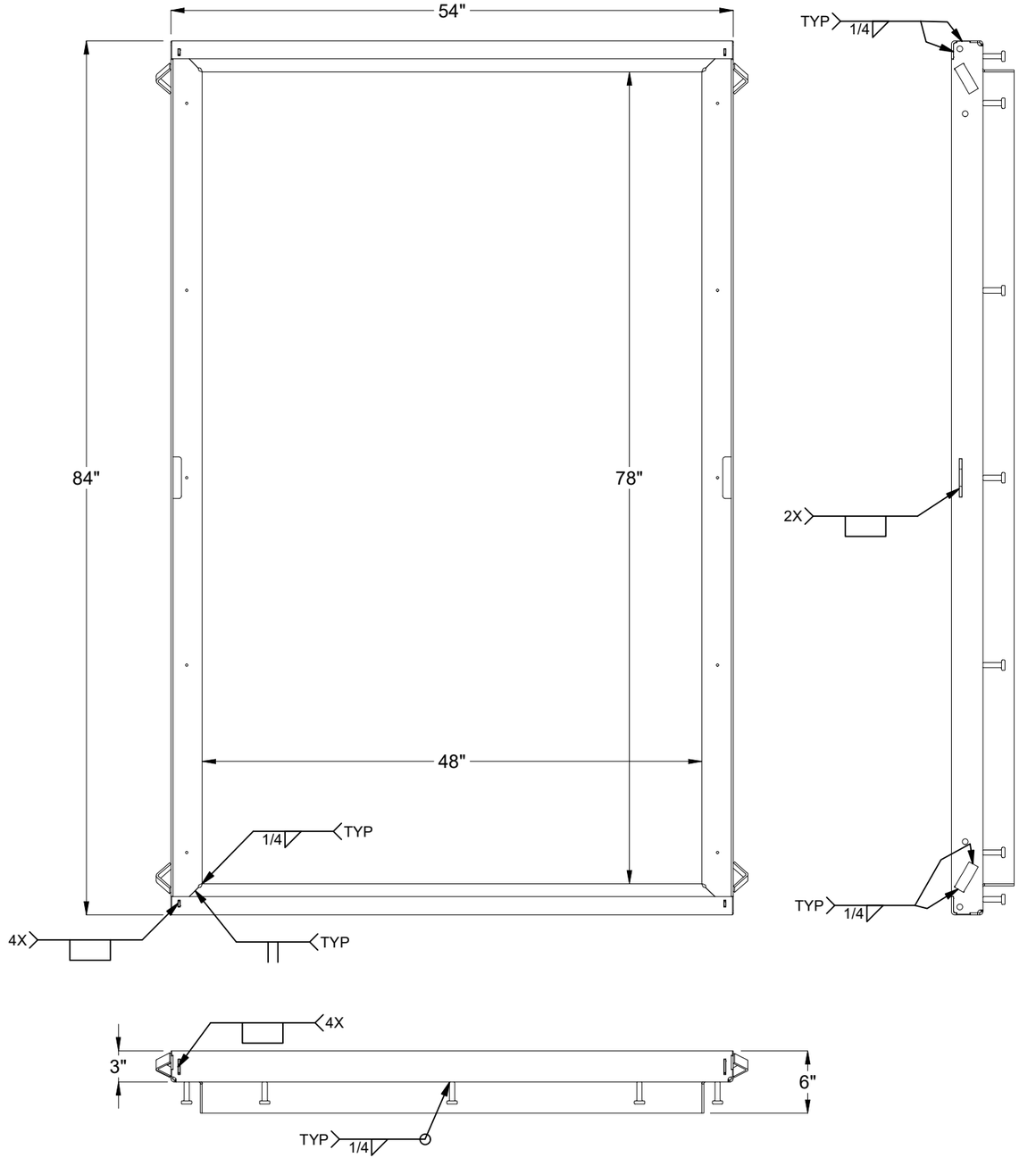
MATERIAL FINISH: Raw	Infrastructure JENSEN 527 Dunn Circle, Sparks, NV 89431 775-352-2716 FAX: 755-358-8127 *JENSENMETALTECH.COM*	©2025 Jensen Infrastructure - All rights reserved. All materials appearing as Jensen Infrastructure documents and the like are proprietary work product and are protected under U.S. copyright and other laws. Unless in conjunction with business conducted with Jensen Infrastructure , any use of Jensen Infrastructure work product without express, written consent is prohibited, and recipient is prohibited from distributing any and all work product to non-approved third parties under penalty of civil action. This product shall only be produced in a Jensen Infrastructure facility.	PART NUMBER & DESCRIPTION: 200103976 DAS2-B-4878-H4-DP-R-CL REV: E-1-1
MATERIAL SURFACE: Diamond Plate			WEIGHT: 296.07 Lbs DRAWN BY: C. Heywood CREATED: 7/24/2025 MODIFIED: 9/11/2025 SHEET: 4

100009352.idw

BILL OF MATERIALS

ITEM	ITEM QTY	QTY	PART NUMBER	DESCRIPTION	PART NAME
1	2	73.783 lbmass	100007734	Frame Component Steel Frame Side, Cast In	200103953
2	2	54.903 lbmass	100007734	Frame Component Steel Frame End, Cast In	200103948
3	4	4	100007641	FRAME LIFTING BRACKET	100007641
4	4	4	200018691	FRAME BOLT DOUBLER SLOT	200018691
5	2	2	100007735	Frame Cam Latch Catch Plate - 1/4" A36, Dual Door, 0.8125" Overhang	200100755
6	16	16	100007889	STUD NELSON WELD H4L-HEADED A36 1/2X2-1/8	100007889



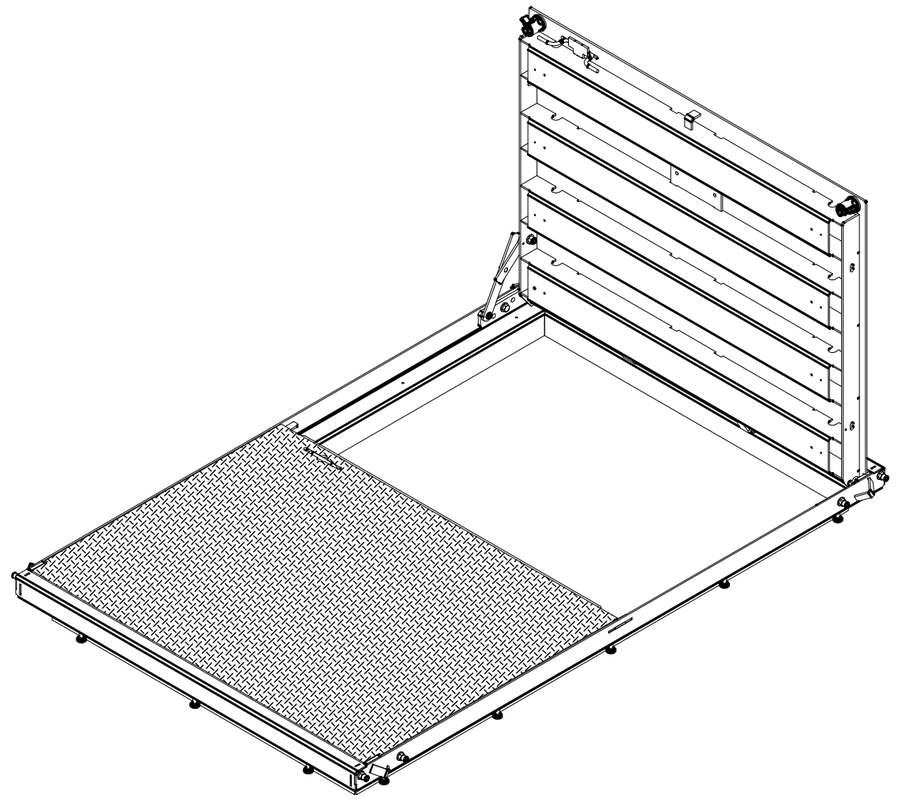


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MATERIAL FINISH: Raw	Infrastructure JENSEN 527 Dunn Circle, Sparks, NV 89431 775-352-2716 FAX: 755-358-8127 *JENSENMETALTECH.COM*	©2025 Jensen Infrastructure - All rights reserved. All materials appearing as Jensen Infrastructure documents and the like are proprietary work product and are protected under U.S. copyright and other laws. Unless in conjunction with business conducted with Jensen Infrastructure , any use of Jensen Infrastructure work product without express, written consent is prohibited, and recipient is prohibited from distributing any and all work product to non-approved third parties under penalty of civil action. This product shall only be produced in a Jensen Infrastructure facility.	PART NUMBER & DESCRIPTION: 200103960 FAS-4878-CH4-R-OH06 / REV: E-1-1
MATERIAL SURFACE: Smooth			WEIGHT: 133.11 Lbs / DRAWN BY: C. Heywood / SHEET: 5
			CREATED: 7/24/2025 / MODIFIED: 9/11/2025

BURN LIST - BOM

PART NAME	ITEM QTY	QTY	DESCRIPTION	STOCK NUMBER	MATERIAL	MASS	SHEET
200087252	1	6.293 lbmass	Door Component Steel Lap Bar 48in, 2.5" Stiffener Offset	100007735	STL ASTM A36 SM-HRPO RAW .250	6.293 lbmass	07
200103948	2	54.903 lbmass	Frame Component Steel Frame End, Cast In	100007734	STL ASTM A36 SM-HRPO 60X120 RAW .1875	27.452 lbmass	08
200103953	2	73.783 lbmass	Frame Component Steel Frame Side, Cast In	100007734	STL ASTM A36 SM-HRPO 60X120 RAW .1875	36.892 lbmass	09
200103966	8	219.577 lbmass	Door Component Steel Channel	100007821	SHT STL GR80 SM-HRPO RAW .1875	27.447 lbmass	10
200103967	1	166.426 lbmass	Door Component Steel Plate, Bottom	100007736	SHT STL CQ DP RAW .25 - 36 KSI YIELD	166.426 lbmass	11
200103968	1	164.223 lbmass	Door Component Steel Plate, Top	100007736	SHT STL CQ DP RAW .25 - 36 KSI YIELD	164.266 lbmass	12
200103969	4	25.634 lbmass	Door Component Steel Side Bar	100007735	STL ASTM A36 SM-HRPO RAW .250	6.570 lbmass	13



100009352.idw

MATERIAL FINISH: Galvanized

MATERIAL SURFACE: Diamond Plate

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PART NUMBER & DESCRIPTION: 100009352
CAS2-4878-CH4-DP-G-CL-FONT-OH06

REV: E-1-1

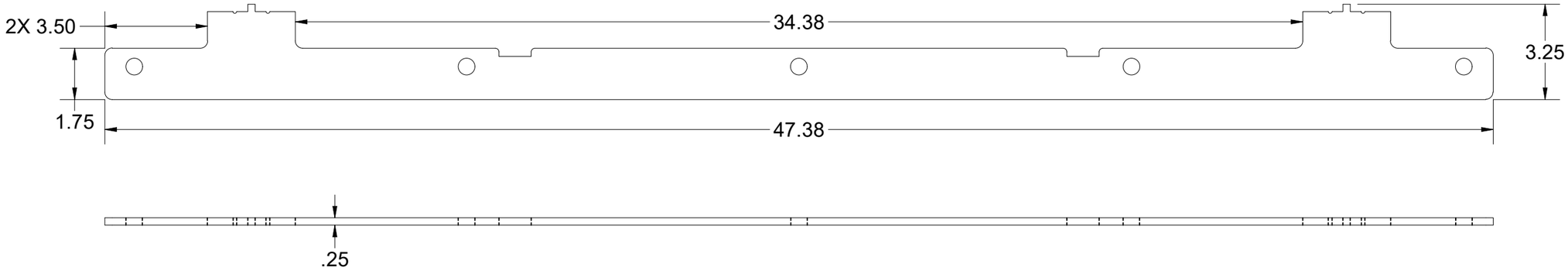
WEIGHT: 750.84 Lbs

DRAWN BY: C. Heywood

CREATED: 7/24/2025

MODIFIED: 9/11/2025

SHEET: 6



BEND TABLE				MATERIAL IFS: 100007735
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.25
-	-	-	-	MAT DESCRIPTION: STL ASTM A36 SM-HRPO RAW .250

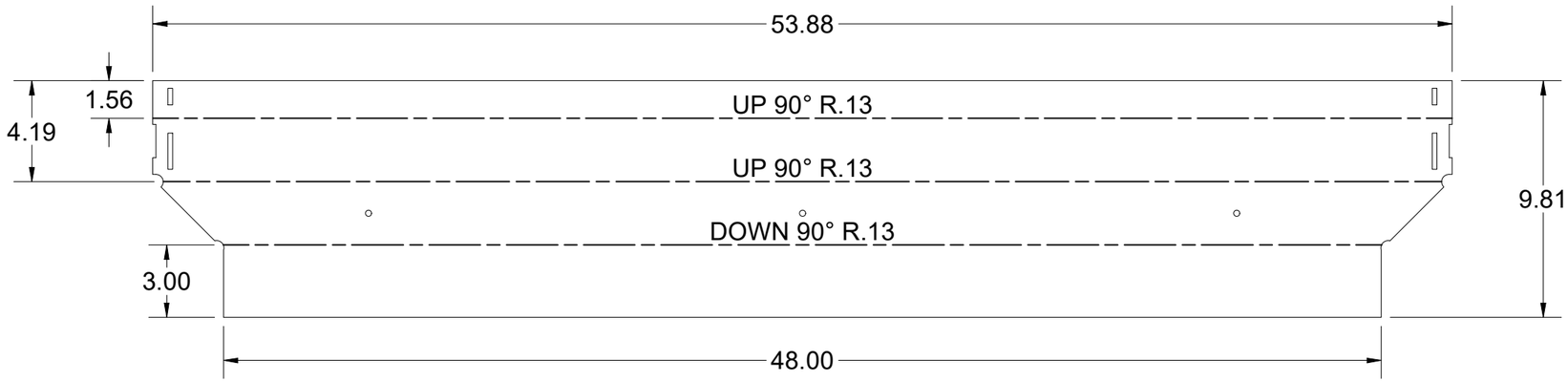
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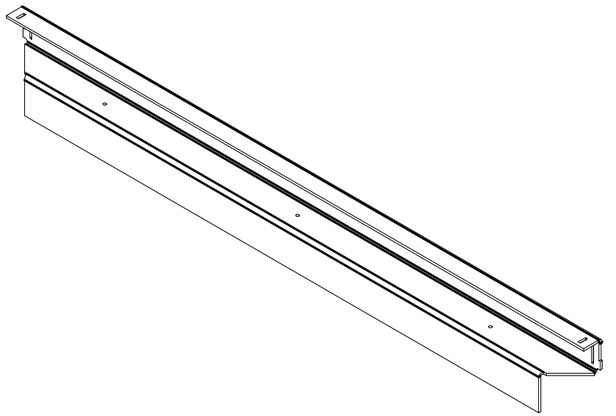
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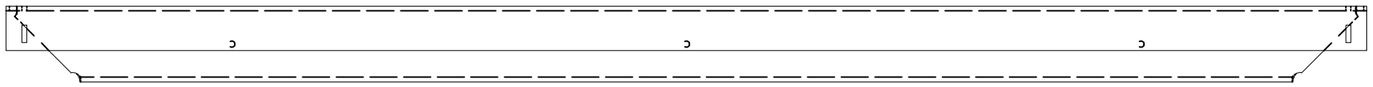
NAME & DESCRIPTION:	200087252 Door Component Steel Lap Bar 48in, 2.5" Stiffener Offset	REV:
WEIGHT: 6.293 lbmass	DRAWN BY: C. Heywood	SHEET: 7 OF 13
CREATED: 7/24/2025	MODIFIED: 9/11/2025	

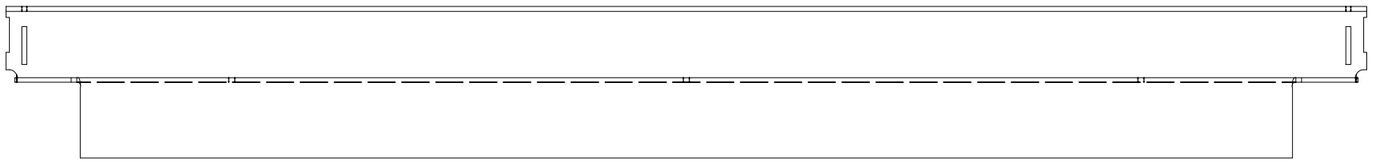
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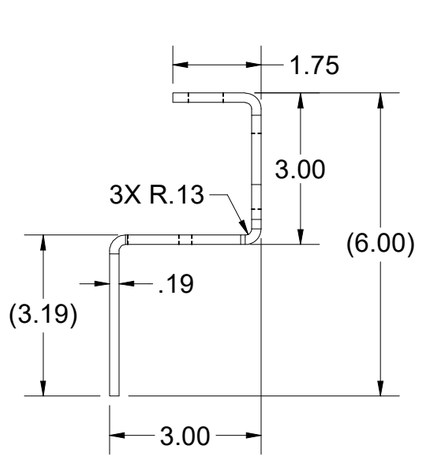
SYMMETRIC











100009352.idw

BEND TABLE				MATERIAL IFS: 100007734
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.1875
0.125	2	90	0.375	MAT DESCRIPTION: STL ASTM A36 SM-HRPO 60X120 RAW .1875

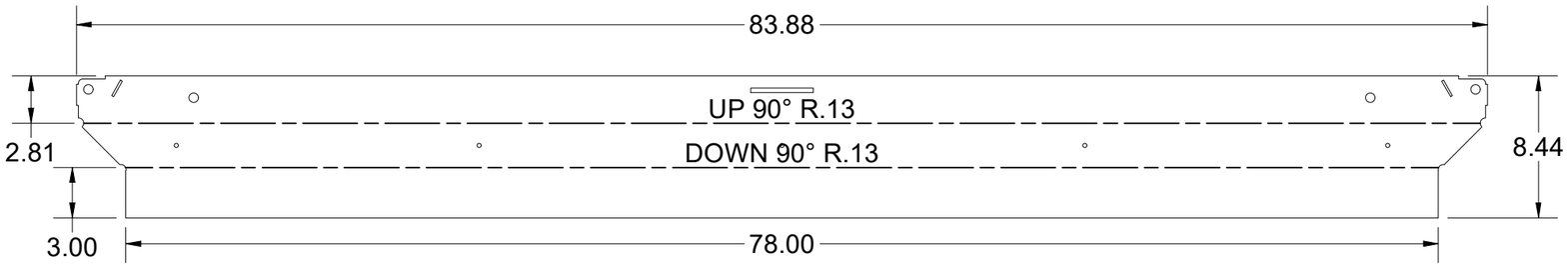
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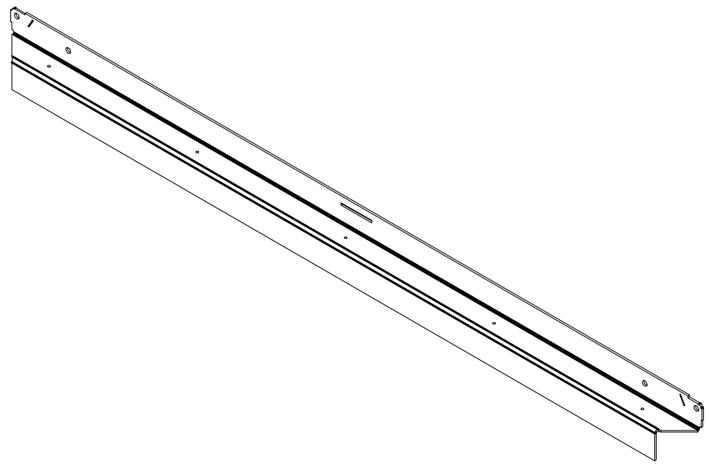
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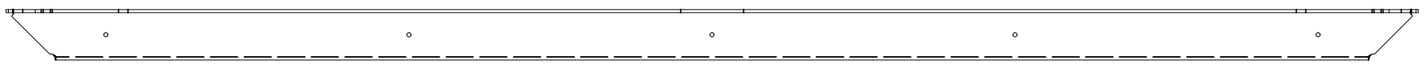
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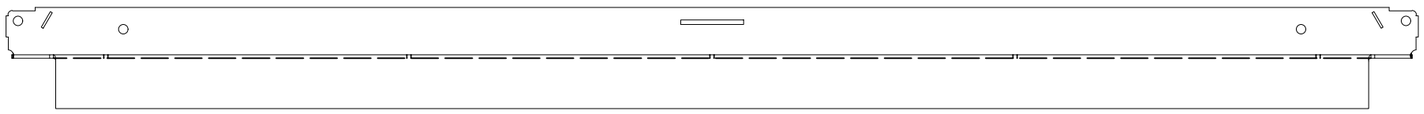
NAME & DESCRIPTION: 200103948 Frame Component Steel Frame End, Cast In		REV: E-1-1
WEIGHT: 27.452 lbmass	DRAWN BY: C. Heywood	SHEET: 8 OF 13
CREATED: 7/24/2025	MODIFIED: 9/11/2025	

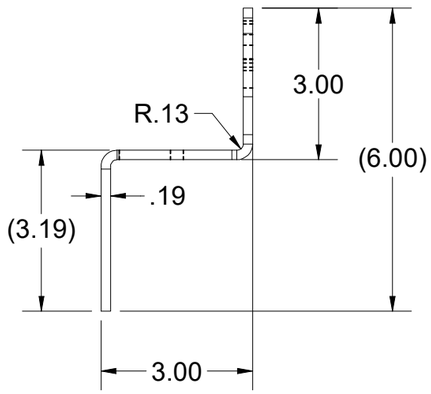
SYMMETRIC











BEND TABLE			
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION
0.125	2	90	0.375

MATERIAL IFS: 100007734

MATERIAL THK: 0.1875

MAT DESCRIPTION: STL ASTM A36 SM-HRPO 60X120 RAW .1875

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775-352-2716 FAX: 755-358-8127
JENSENMETALTECH.COM

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This product shall only be produced in a Jensen Infrastructure facility.

NAME & DESCRIPTION: 200103953
Frame Component Steel Frame Side, Cast In

REV: E-1-1

WEIGHT: 36.892 lbmass

DRAWN BY: C. Heywood

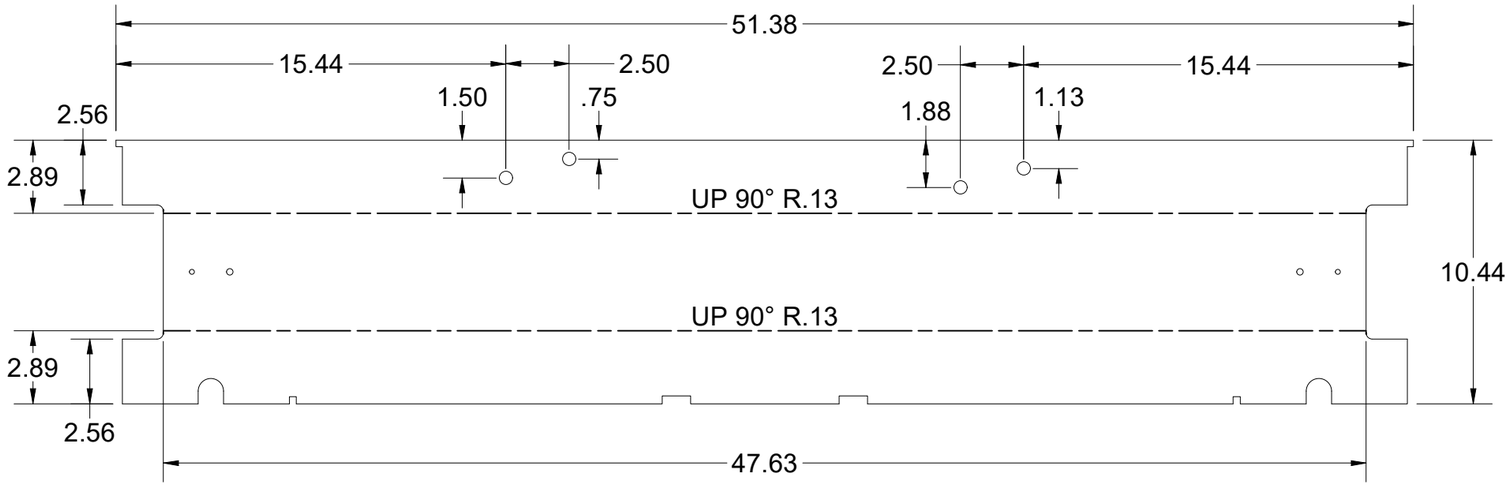
CREATED: 7/24/2025

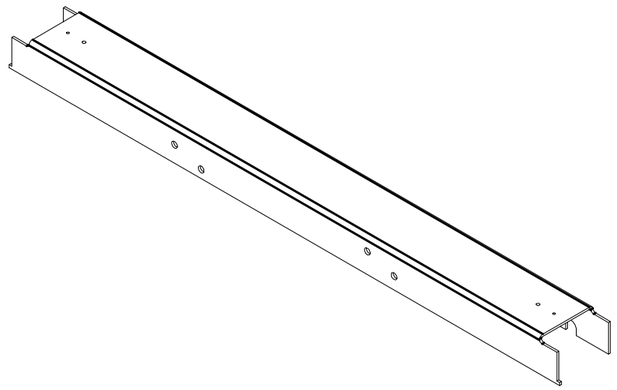
MODIFIED: 9/11/2025

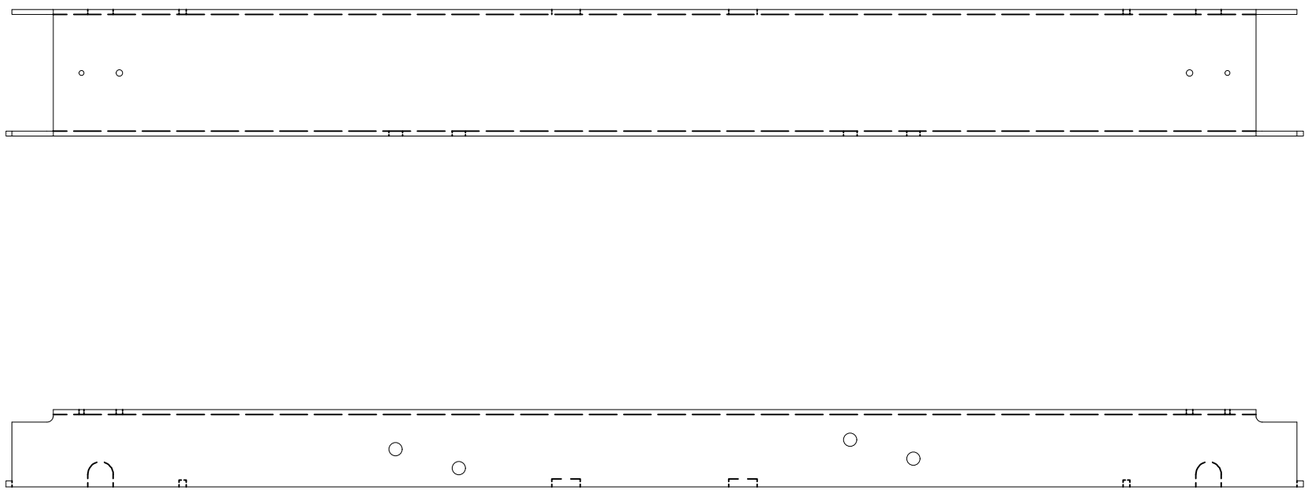
SHEET: 9 OF 13

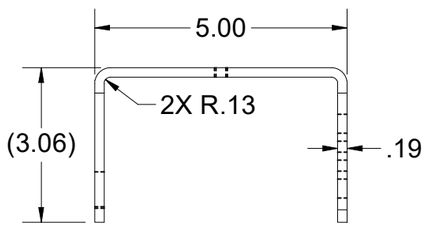
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NON-SYMMETRIC









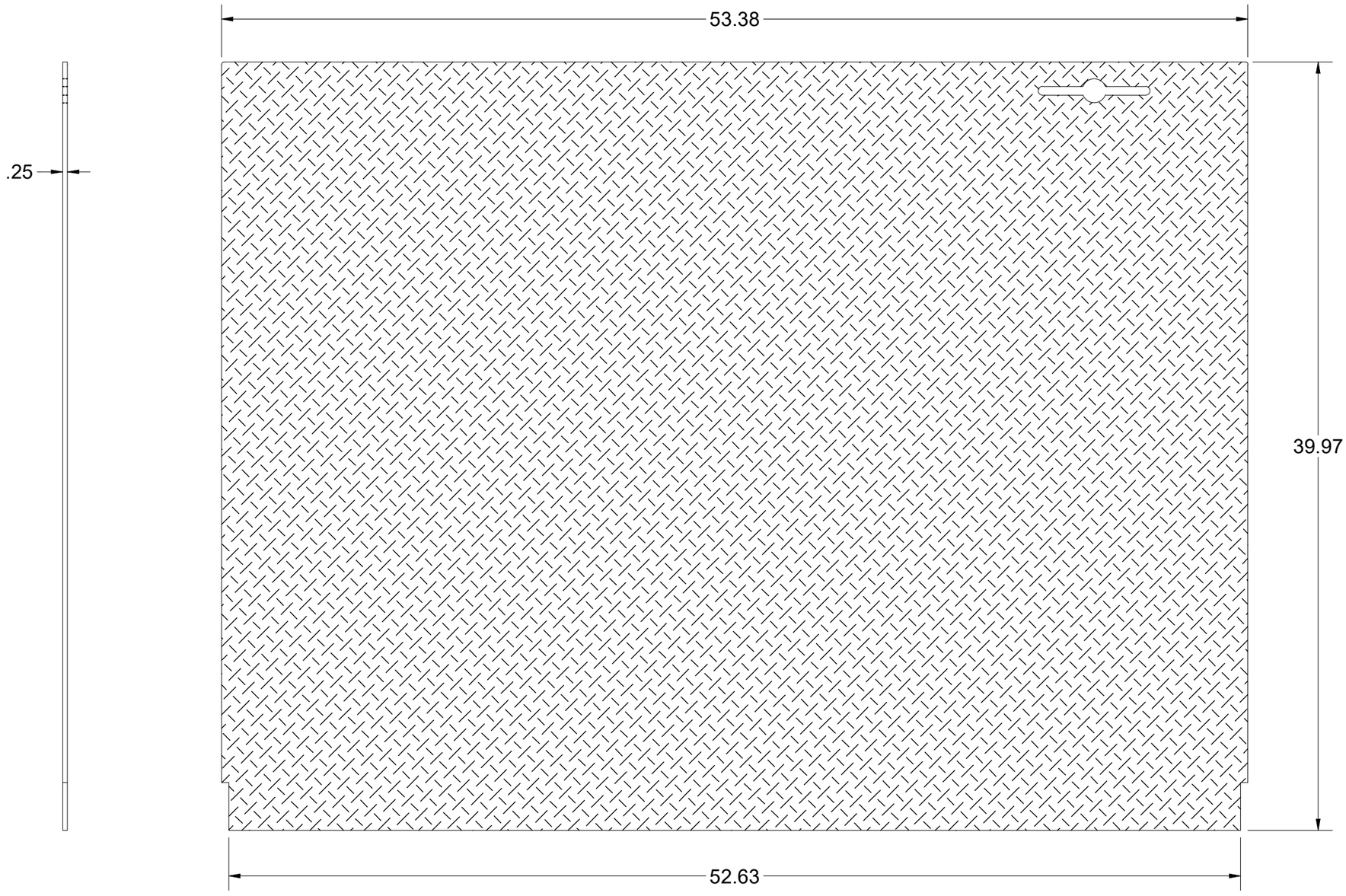
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BEND TABLE				MATERIAL IFS: 100007821
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.1875
-	-	- 0	-	MAT DESCRIPTION: SHT STL GR80 SM-HRPO RAW .1875

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NAME & DESCRIPTION: 200103966 Door Component Steel Channel		REV: E-1-1
WEIGHT: 27.447 lbmass	DRAWN BY: C. Heywood	SHEET: 10 OF 13
CREATED: 7/24/2025	MODIFIED: 9/11/2025	



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BEND TABLE			
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION
-	-	- 0	-

MATERIAL IFS: 100007736

MATERIAL THK: 0.25

MAT DESCRIPTION: SHT STL CQ DP RAW .25 - 36 KSI YIELD

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NAME & DESCRIPTION: 200103967
Door Component Steel Plate, Bottom

REV: E-1-1

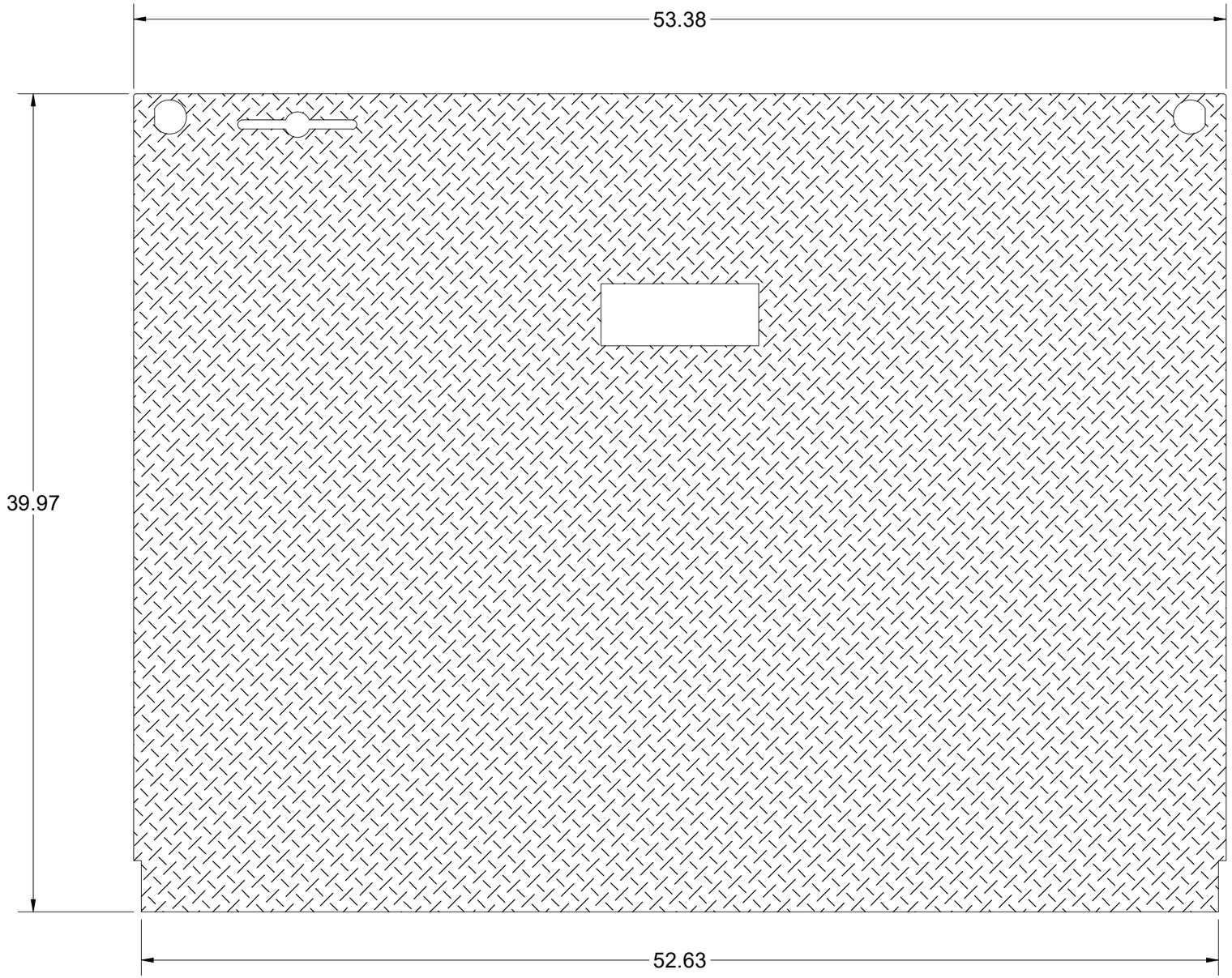
WEIGHT: 166.426 lbmass

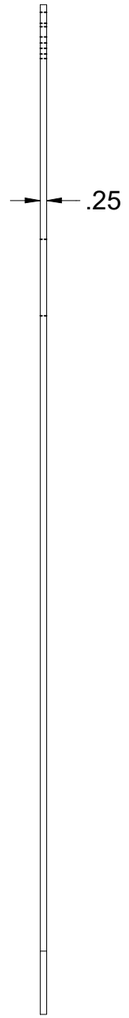
DRAWN BY: C. Heywood

CREATED: 7/24/2025

MODIFIED: 9/11/2025

SHEET: 11 OF 13





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BEND TABLE			
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION
-	-	- 0	-

MATERIAL IFS: 100007736

MATERIAL THK: 0.25

MAT DESCRIPTION: SHT STL CQ DP RAW .25 - 36 KSI YIELD

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NAME & DESCRIPTION: 200103968
Door Component Steel Plate, Top

REV: E-1-1

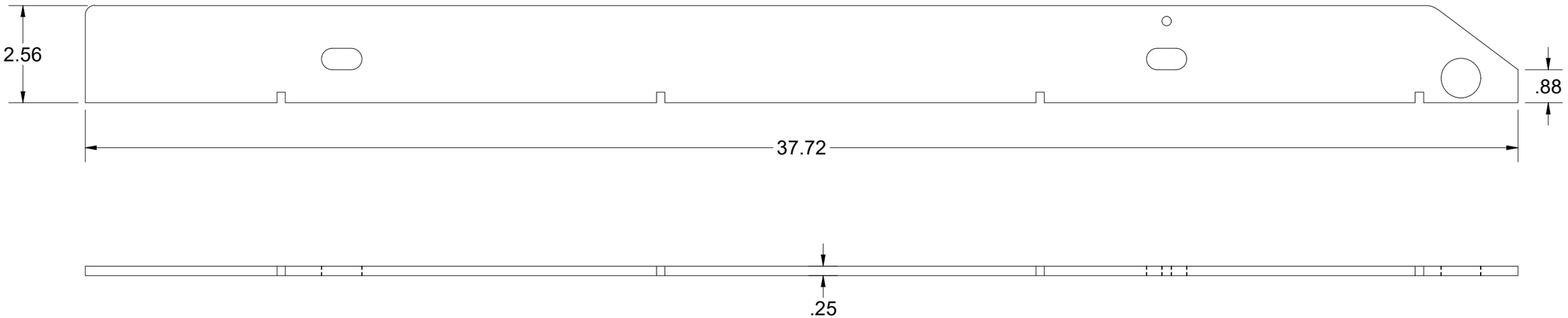
WEIGHT: 164.266 lbmass

DRAWN BY: C. Heywood

CREATED: 7/24/2025

MODIFIED: 9/11/2025

SHEET: 12 OF 13



BEND TABLE				MATERIAL IFS: 100007735			
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.25			
-	-	- 0	-	MAT DESCRIPTION: STL ASTM A36 SM-HRPO RAW .250			

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NAME & DESCRIPTION: 200103969 Door Component Steel Side Bar		REV: E-1-1
WEIGHT: 6.570 lbmass	DRAWN BY: C. Heywood	SHEET: 13 OF 13
CREATED: 7/24/2025	MODIFIED: 9/11/2025	

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