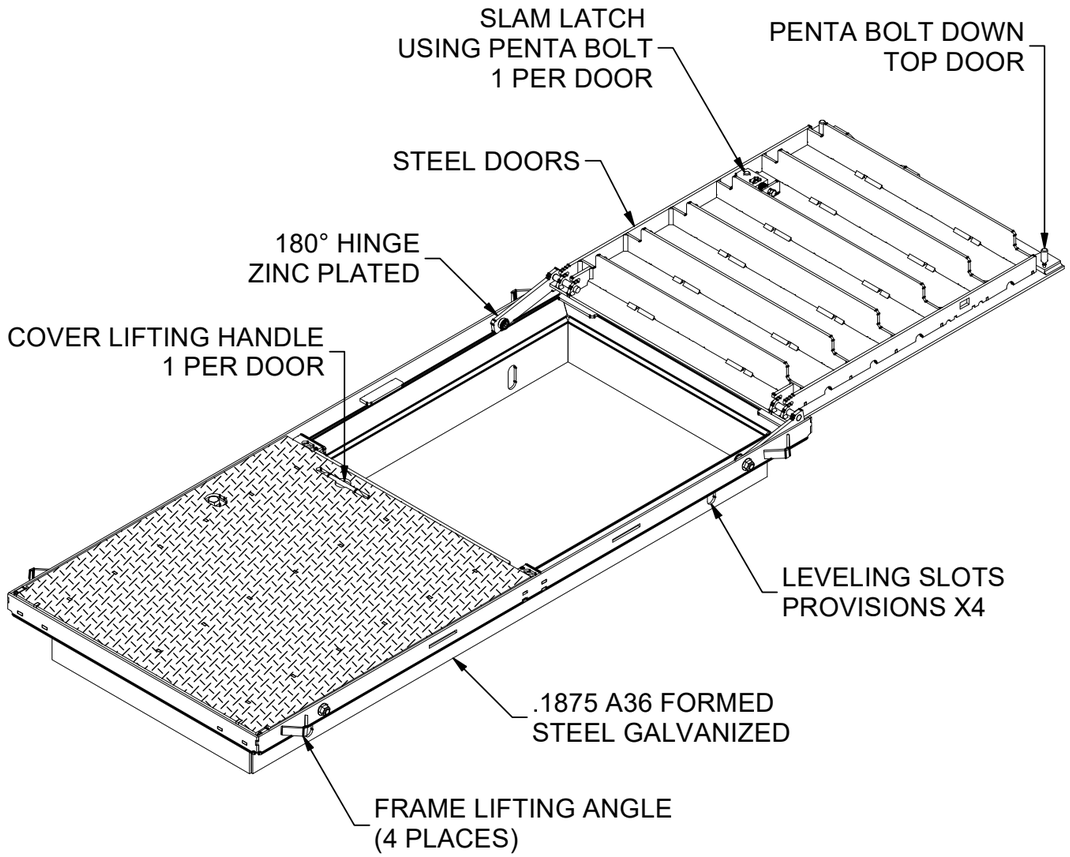
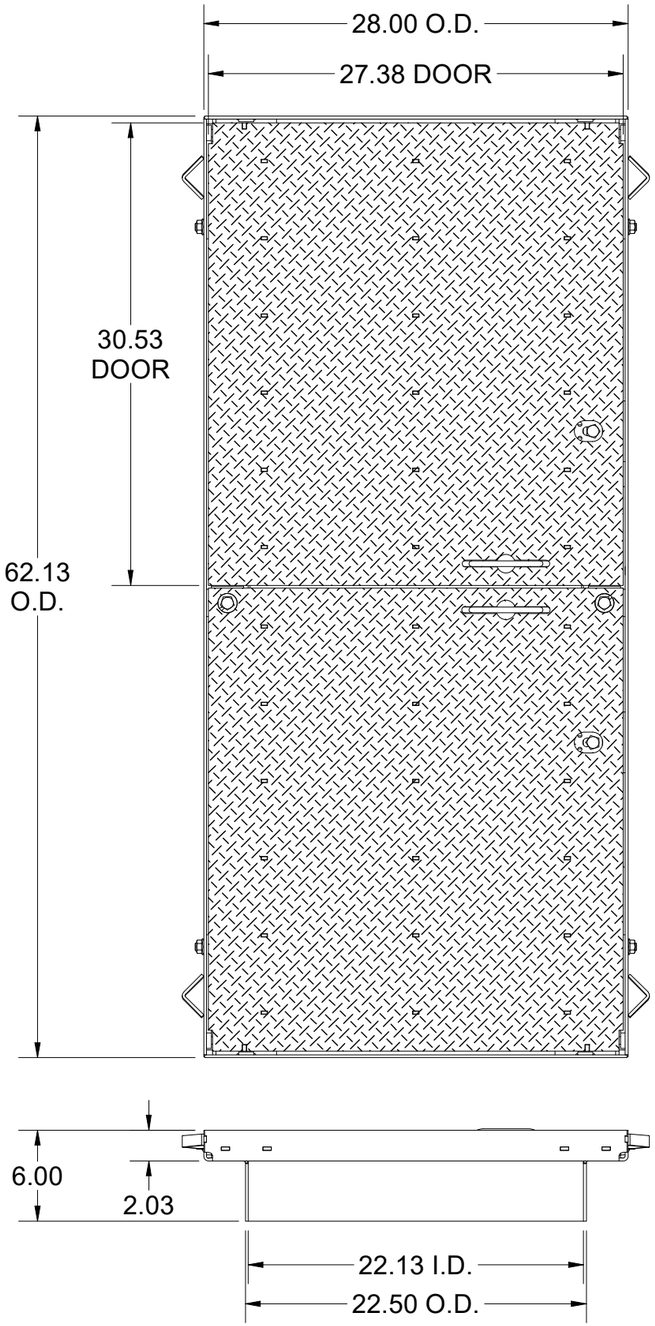
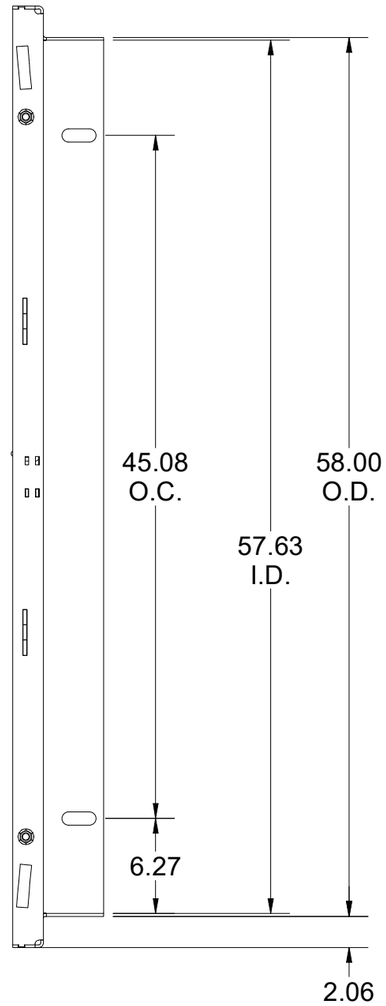






200058039.idw

LOADING CRITERIA: ASTM C1802 Load Level 05

16,000 lb load on 10" x 20" footprint, with 30% impact restricted to unrestricted parking lanes and alleyways where traffic speed is limited to 15 miles per hour.

SURFACE:	Diamond Plate	FINISH:	Galvanized
WEIGHT:	277.91 lbs	MARKING:	None

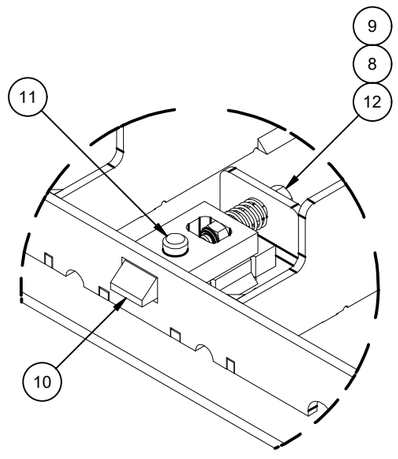
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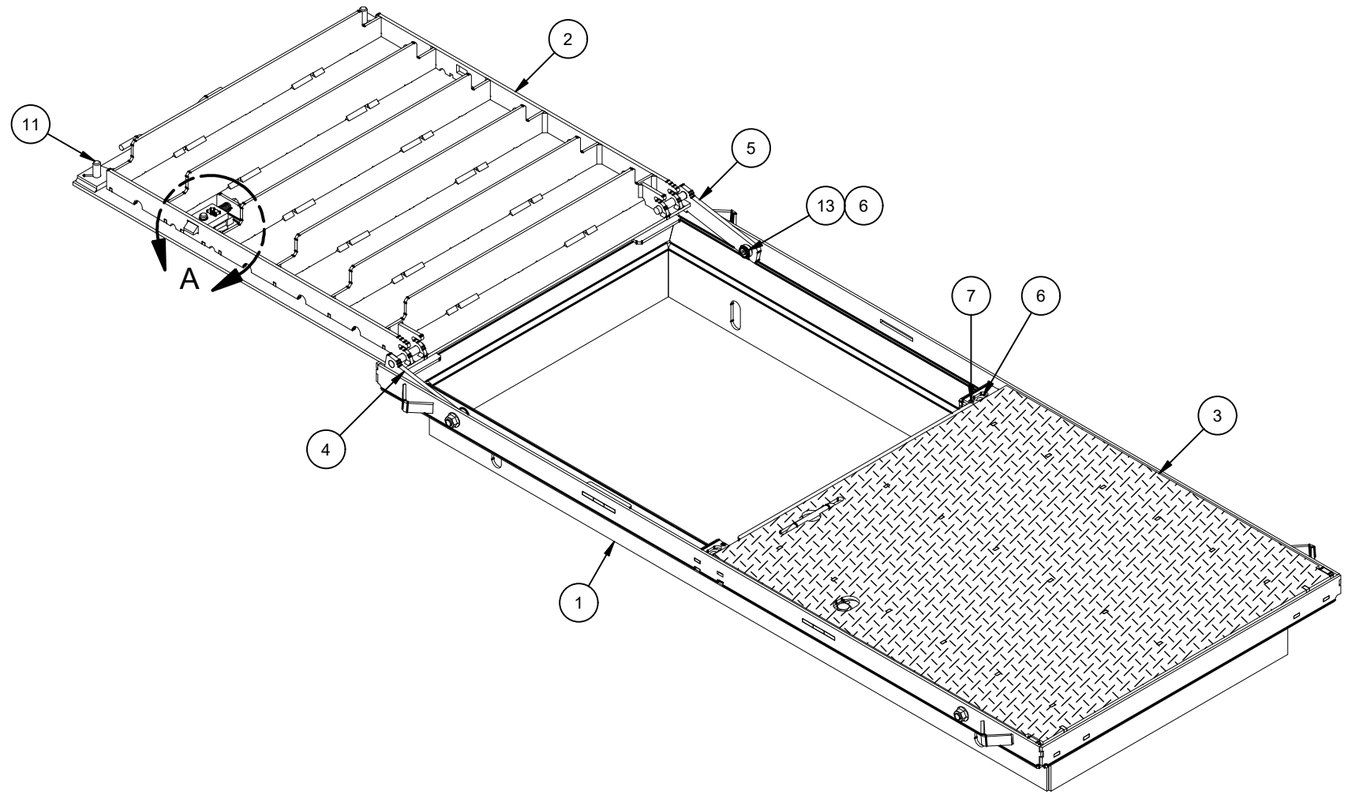
DESCRIPTION:	CAS2-2257-AHF5-DP-G-SL-OH06	REV:	C-1-3
	22x57 Standard Cover Assembly (Loading Criteria Per ASTM C1802 Load Level 05, Steel, Hinged, Full Range, Handle (1 Per Door), Diamond Plate, Galvanized, N/A, N/A) 06	SHEET:	1
PART NUMBER:	200058039	DRAWN BY:	R. Dohr
CREATED:	11/14/2021	MODIFIED:	9/29/2025

BILL OF MATERIALS

ITEM	ITEM QTY	QTY	PART NUMBER	DESCRIPTION	PART NAME
1	2	2	200097277	180 Degree Left Hinge Assembly 2" Frame	200097277
1	1	1	200058046	FAS-2257-CHF5-R-OH06	200058046
2	1	1	200058040	DAS2-T-2257-HF5-DP-R-SL	200058040
2	2	2	200097279	180 Degree Right Hinge Assembly 2" Frame	200097279
3	1	1	200058082	DAS1-B-2257-HF5-DP-R-BD-SL	200058082
6	6	6	100026256	LOW-STRENGTH STEEL FLANGE NUT, 1/2" - 13 THREAD SIZE	100026256
7	2	2	100007882	Rivet Blind Grip .1875" Large Domed Head Range-0.376-0.5" Steel	100007882
8	2	2	100007915	SPRING COMPRESSION 055 X 5/8 X 7/8 LONG	100007915
9	2	2	100007862	HEX NUT NYLOCK - 5/16-18 UNC - 304SS	100007862
10	2	2	200084519	1/2" THK Cam Latch 304SS	200084519
11	4	4	100004450	BOLT PENTA 1/2-13 UNC 0.875 HEAD 1.25L SS	100004450
12	2	2	100004002	Hex Bolt 5/16-18 UNC 316SS - PT - 2"	100004002
13	4	4	100046574	Bolt Shoulder Socket Head - 1/2-13 UNC - SD-0.625" - SL-0.4375" - Grade 8 - Black Oxide	100046574



DETAIL A
SCALE 1/3



REVISION HISTORY	
DESCRIPTION	DATE
CHANGED TO Ø1/2" PIN HINGE DESIGN, FLAT BAR STIFFENERS, IN HOUSE SLAM LATCH, TABBED TOP PLATE, AND CLEANED UP DESIGN	1/29/2025
ADDED 1/32" TO FRAME DEPTH PER SHOP REQUEST, TO PREVENT DOOR FROM RESTING HIGH	2/24/2025
CHANGED FRAME ENDS / SIDES TO 1" V OPENING TO FIX DISTORTION	4/3/2025
REDESIGNED FRAMES FOR 1.5" V OPENINGS PER SHOP REQUEST, DUE TO MATERIAL COMING IN ABOVE 51 KSI YIELD AND EXCEEDING DIE STRENGTH	5/16/2025
59073-9 MADE WELDS STAGGERED, ADDED A THIRD TAB PER STIFFENER, RAISED SLAM LATCH CATCH PLATE BY 1/32"	9/29/2025

MATERIAL FINISH: Galvanized

MATERIAL SURFACE: Diamond Plate

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PART NUMBER & DESCRIPTION: 200058039 CAS2-2257-AHF5-DP-G-SL-OH06

REV: C-1-3

WEIGHT: 277.91 Lbs

DRAWN BY: R. Dohr

CREATED: 11/14/2021

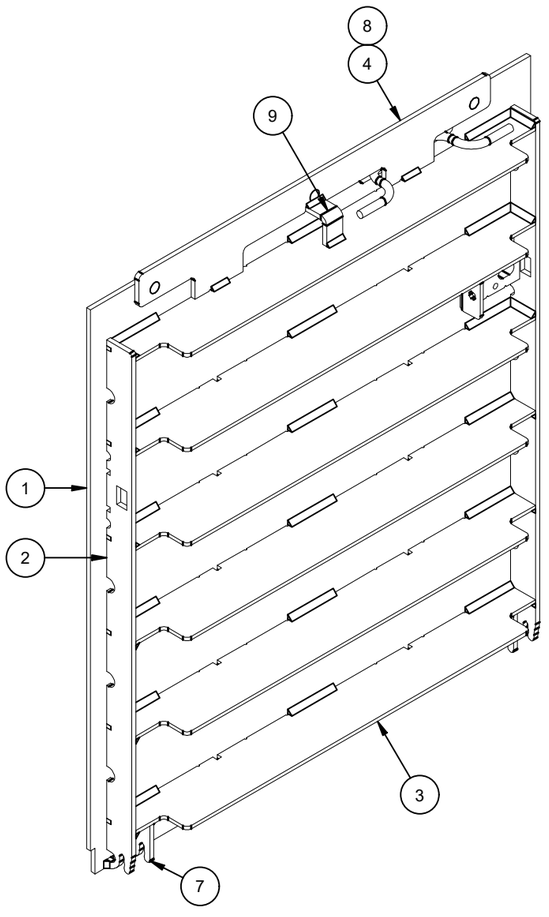
MODIFIED: 9/29/2025

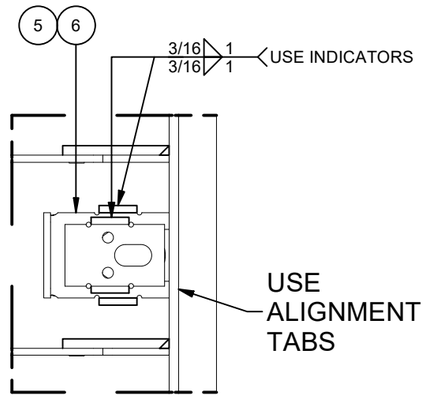
SHEET: 2

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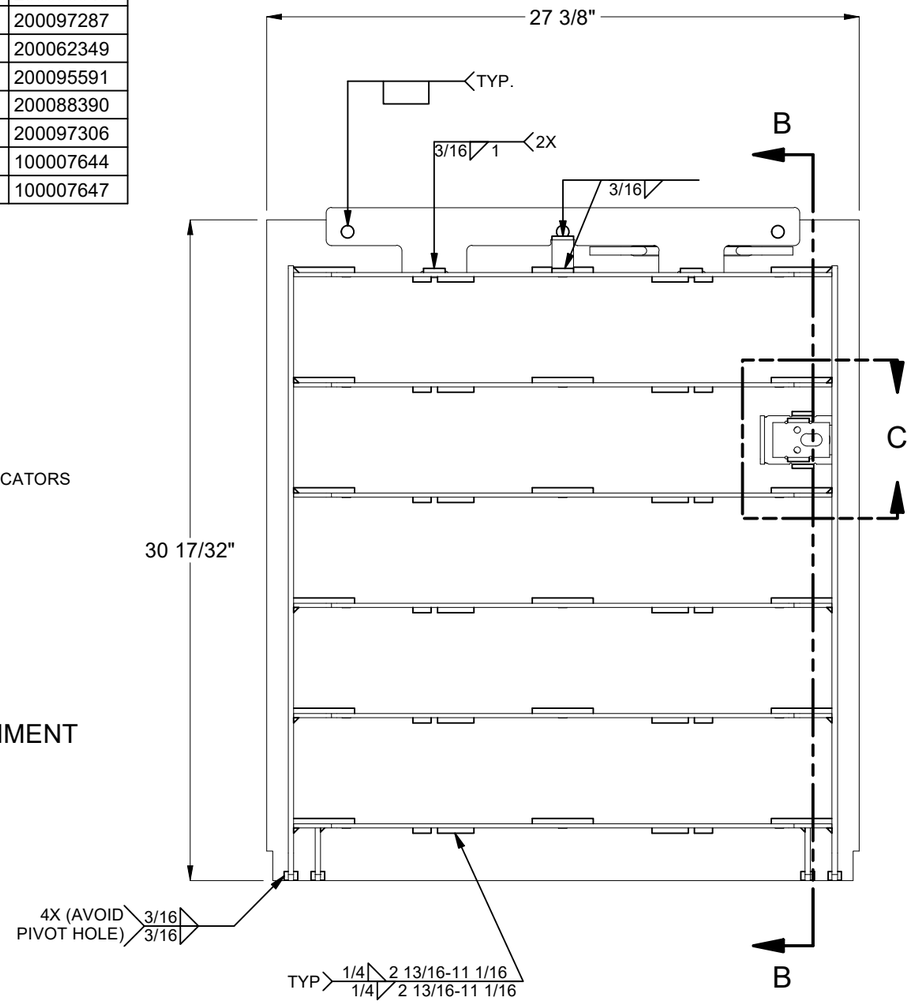
BILL OF MATERIALS

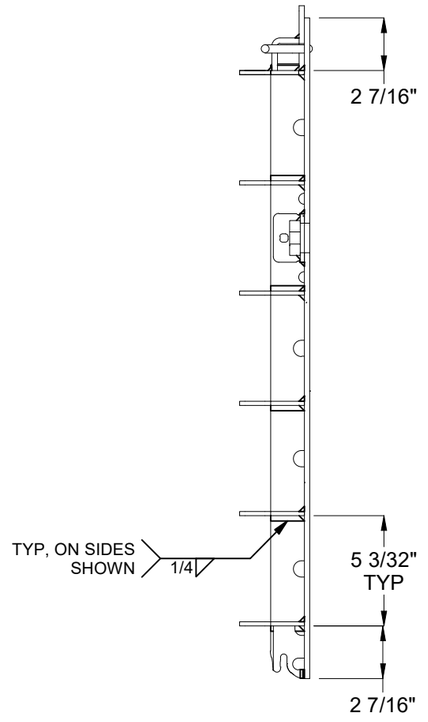
ITEM	ITEM QTY	QTY	PART NUMBER	DESCRIPTION	PART NAME
1	1	64.731 lbmass	100007736	Door Component Steel Plate, Bottom	200058042
2	2	5.804 lbmass	100007735	Door Component Steel Side Bar	200058043
3	6	22.240 lbmass	100007821	Door Component Steel Stiffener, Plate	200097287
4	1	3.182 lbmass	100007735	2257 Door Component Steel Lap Bar	200062349
5	1	1	200095591	Slam Latch Spacer Plate - 1/2" Thick, Steel	200095591
6	1	0.378 lbmass	100007734	Slam Latch Retainer	200088390
7	2	0.371 lbmass	100007735	Flatbar Member Hinge Doubler - 180 Degree hinge without torsion assist	200097306
8	1	1	100007644	LEAF PULL HANDLE A36 3/8IN DIAMETER	100007644
9	1	1	100007647	LIFTING BRACKET STEEL LEAF	100007647



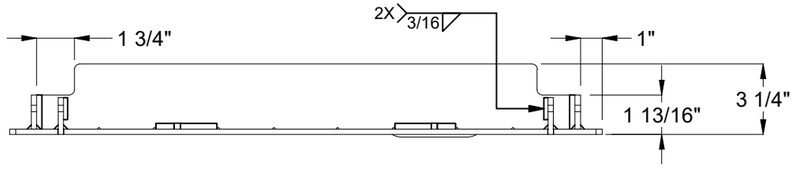


DETAIL C
SCALE 1/4





SECTION B-B

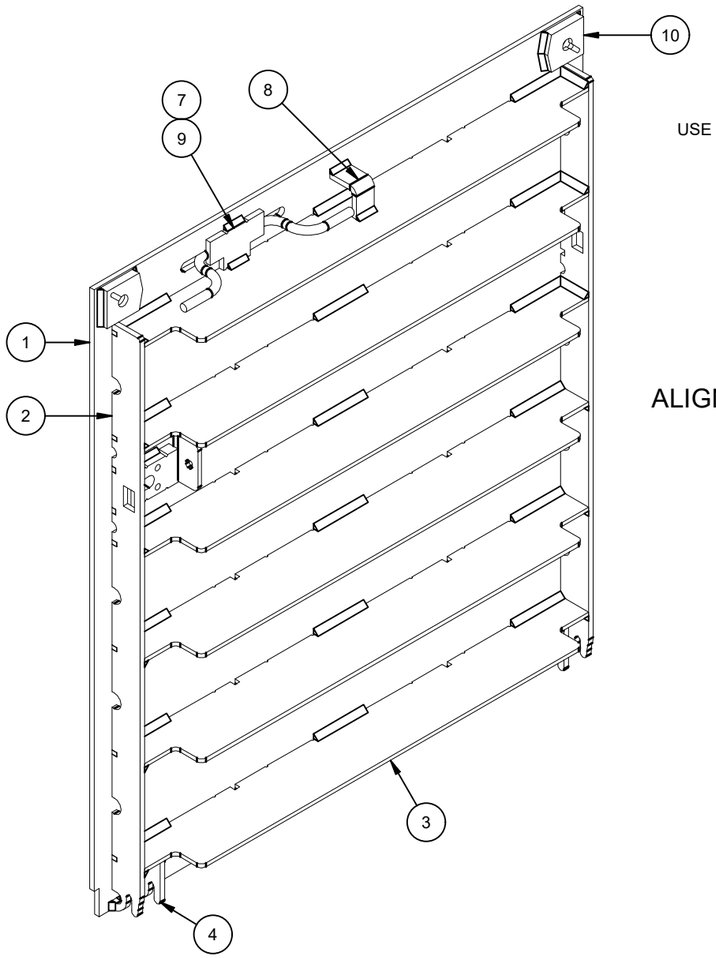


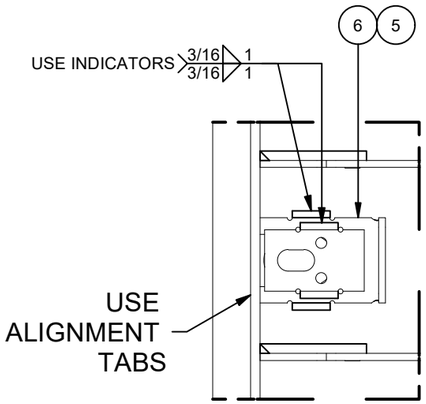
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MATERIAL SURFACE: Diamond Plate			WEIGHT: 98.49 Lbs — DRAWN BY: R. Dohr — SHEET: 3
			CREATED: 11/14/2021 — MODIFIED: 9/29/2025

200058039.idw

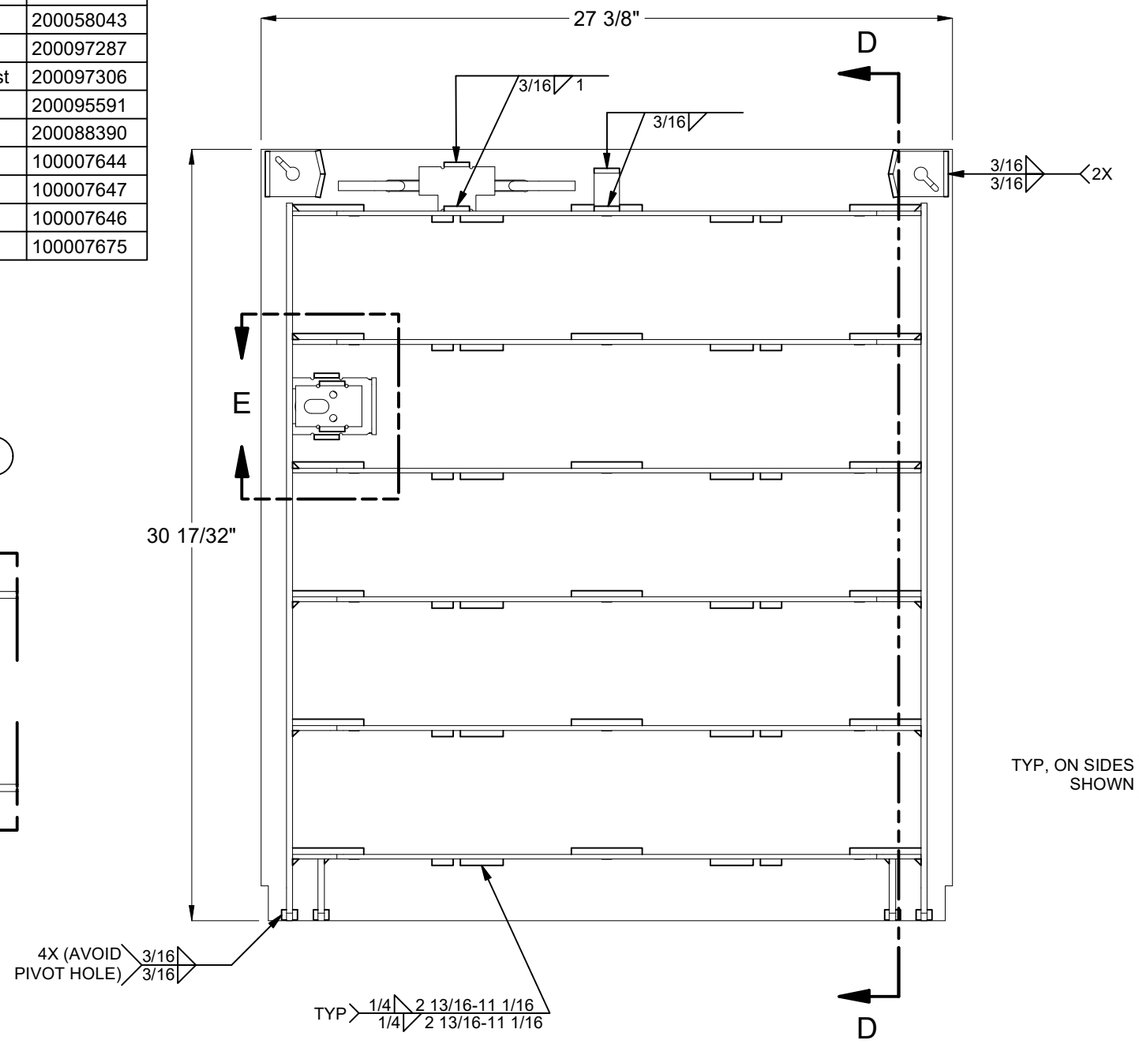
BILL OF MATERIALS

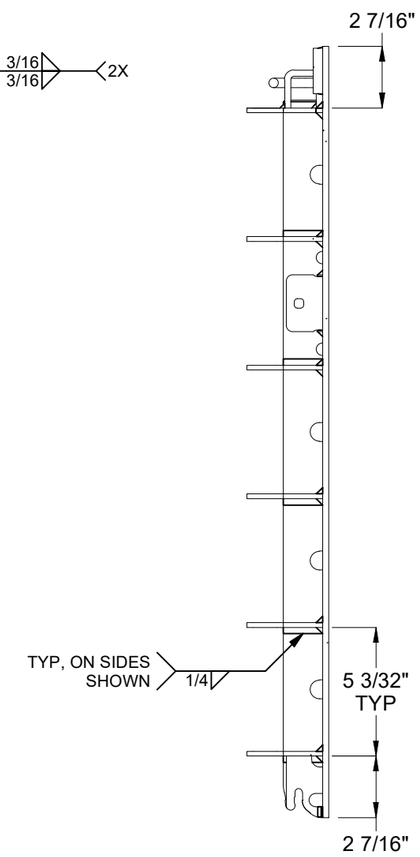
ITEM	ITEM QTY	QTY	PART NUMBER	DESCRIPTION	PART NAME
1	1	64.530 lbmass	100007736	Door Component Steel Plate, Top	200058089
2	2	5.804 lbmass	100007735	Door Component Steel Side Bar	200058043
3	6	22.240 lbmass	100007821	Door Component Steel Stiffener, Plate	200097287
4	2	0.371 lbmass	100007735	Flatbar Member Hinge Doubler - 180 Degree hinge without torsion assist	200097306
5	1	1	200095591	Slam Latch Spacer Plate - 1/2" Thick, Steel	200095591
6	1	0.378 lbmass	100007734	Slam Latch Retainer	200088390
7	1	1	100007644	LEAF PULL HANDLE A36 3/8IN DIAMETER	100007644
8	1	1	100007647	LIFTING BRACKET STEEL LEAF	100007647
9	1	1	100007646	HANDLE RETAINER STL	100007646
10	2	2	100007675	CAM BASE	100007675



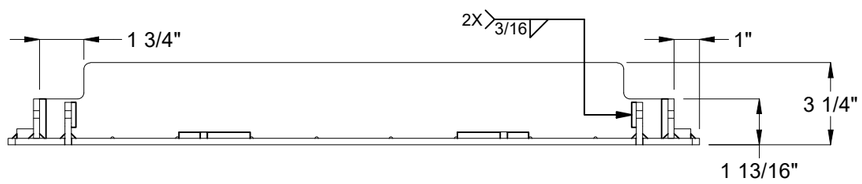


DETAIL E
SCALE 1/4





SECTION D-D



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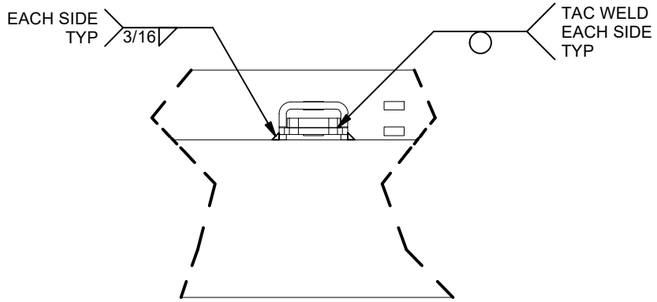
MATERIAL FINISH: Raw	Infrastructure JENSEN 450 E. GLENDALE AVE. SPARKS. NV 89431 775-352-2716 FAX: 755-358-8127 *JENSENMETALTECH.COM*	©2025 Jensen Infrastructure - All rights reserved. All materials appearing as Jensen Infrastructure documents and the like are proprietary work product and are protected 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: 200058082 DAS1-B-2257-HF5-DP-R-BD-SL
MATERIAL SURFACE: Diamond Plate			WEIGHT: 95.95 Lbs DRAWN BY: R. Dohr CREATED: 11/14/2021 MODIFIED: 9/29/2025

REV: C-1-3

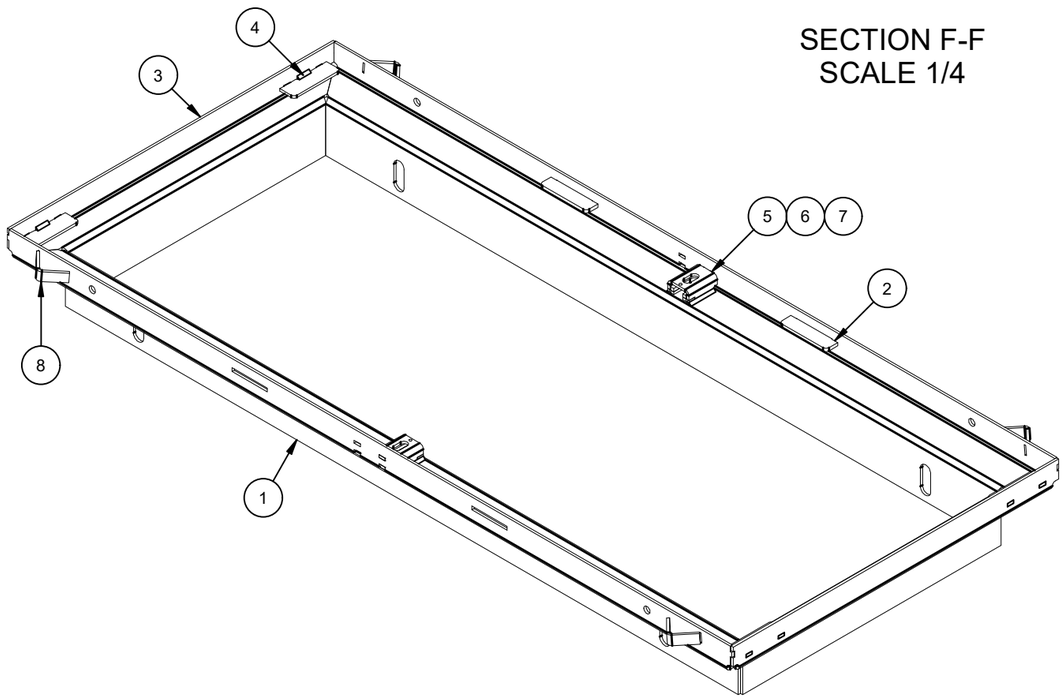
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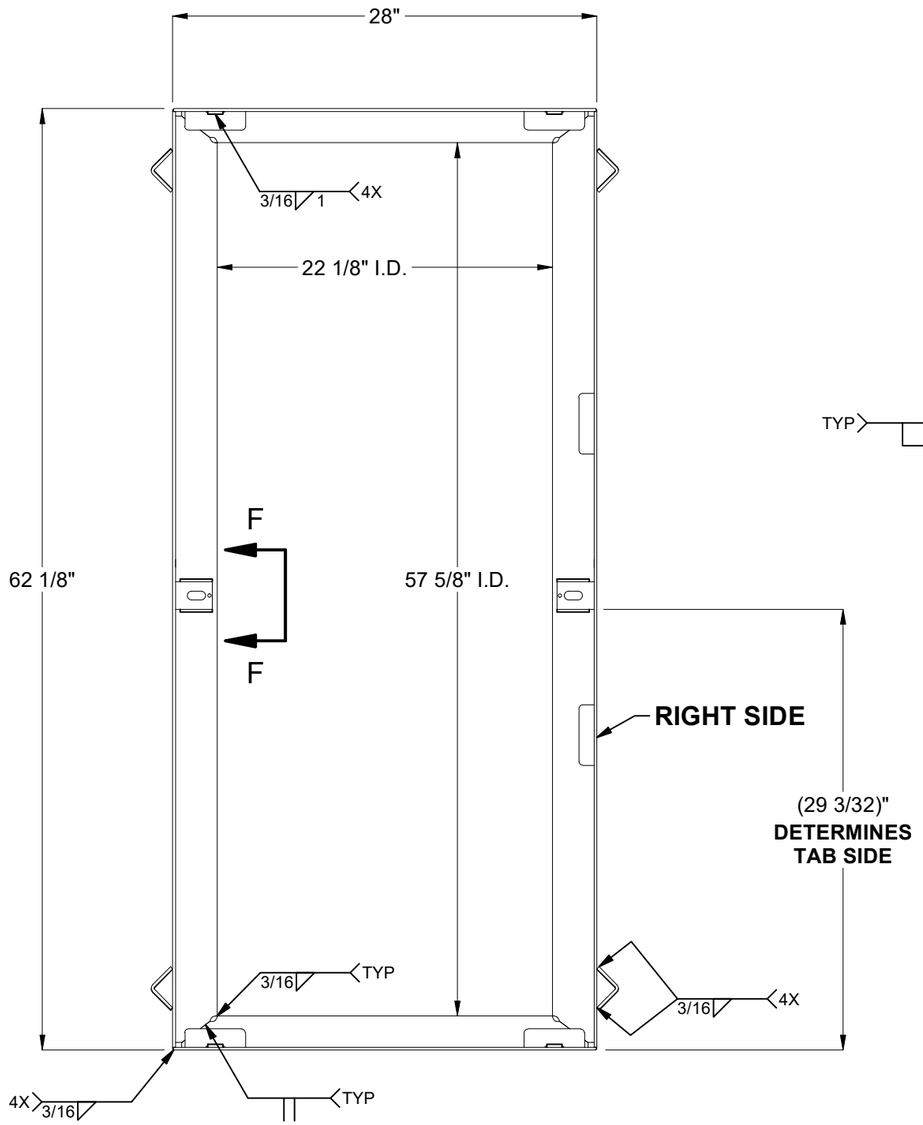
BILL OF MATERIALS

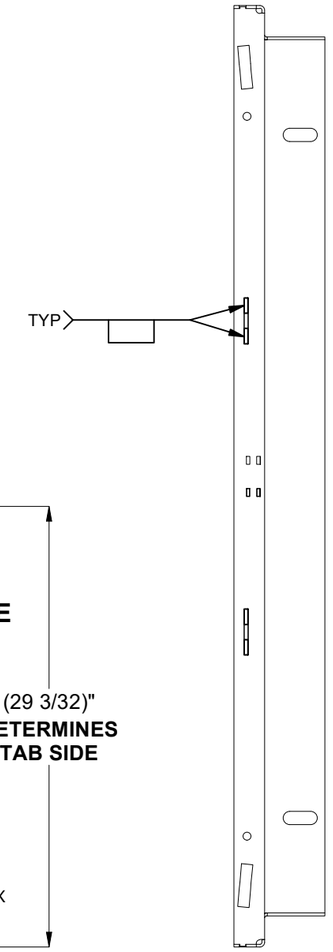
ITEM	ITEM QTY	QTY	PART NUMBER	DESCRIPTION	PART NAME
1	2	53.205 lbmass	100007734	Frame Component Steel Frame Side, Adjustable	200058048
2	2	0.617 lbmass	100007735	Frame Component Steel Slam Latch Catch	200092276
3	2	20.125 lbmass	100007734	Frame Component Steel Frame End, Adjustable	200058050
4	4	1.076 lbmass	100007734	Frame Component- Door Hinge Catch Plate	200097366
5	2	0.741 lbmass	100007734	Flange Nut Bracket - 2 in Adjustable Frame	200097411
6	2	0.215 lbmass	100007734	FLANGE NUT RETAINER	200097413
7	2	0.248 lbmass	100007735	FLANGE NUT SHIM PLATE	200097414
8	4	4	100040374	2" FRAME LIFTING BRACKET	100040374

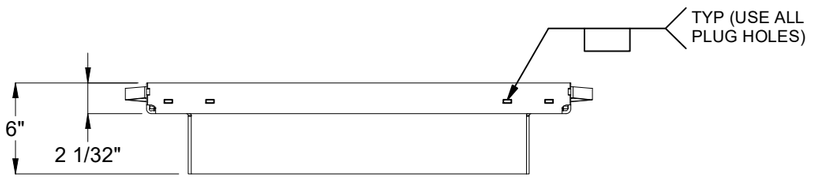


SECTION F-F
SCALE 1/4









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MATERIAL SURFACE: Smooth			WEIGHT: 76.98 Lbs DRAWN BY: R. Dohr CREATED: 11/14/2021 MODIFIED: 9/29/2025

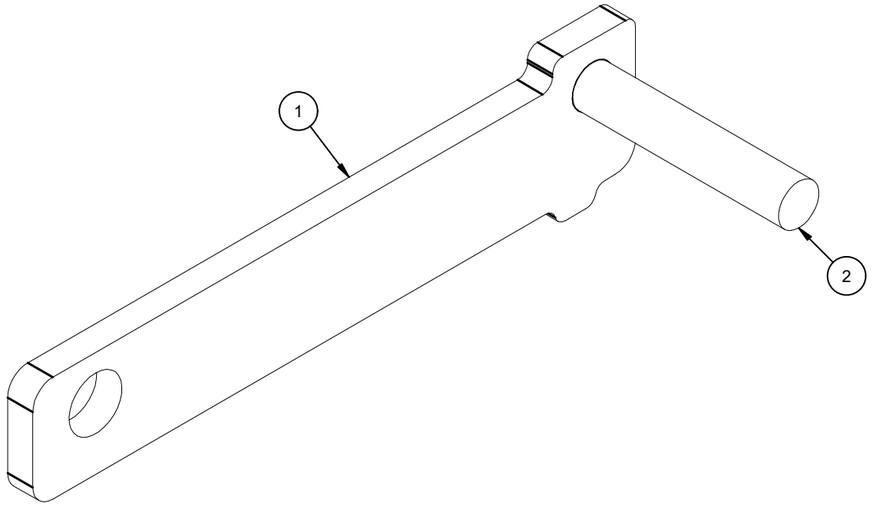
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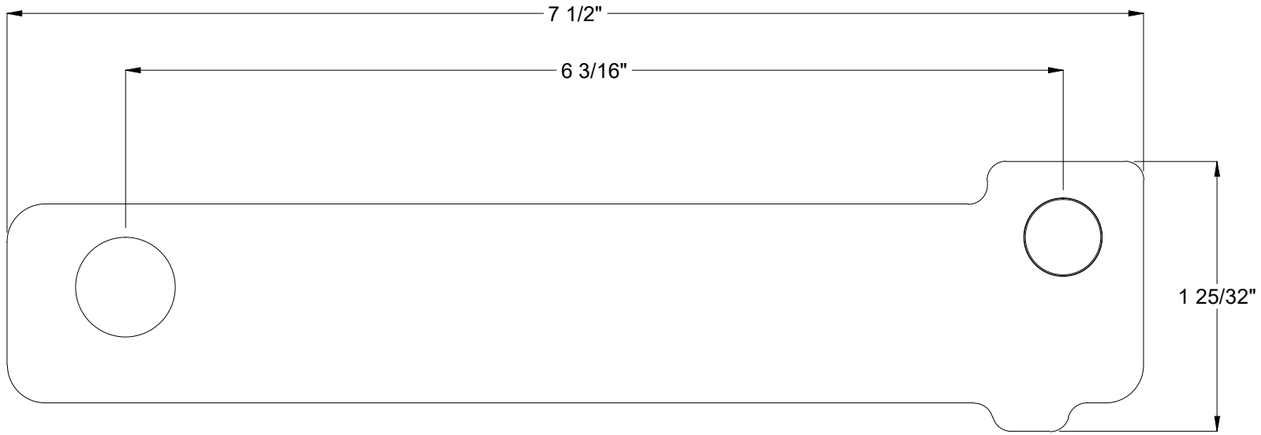
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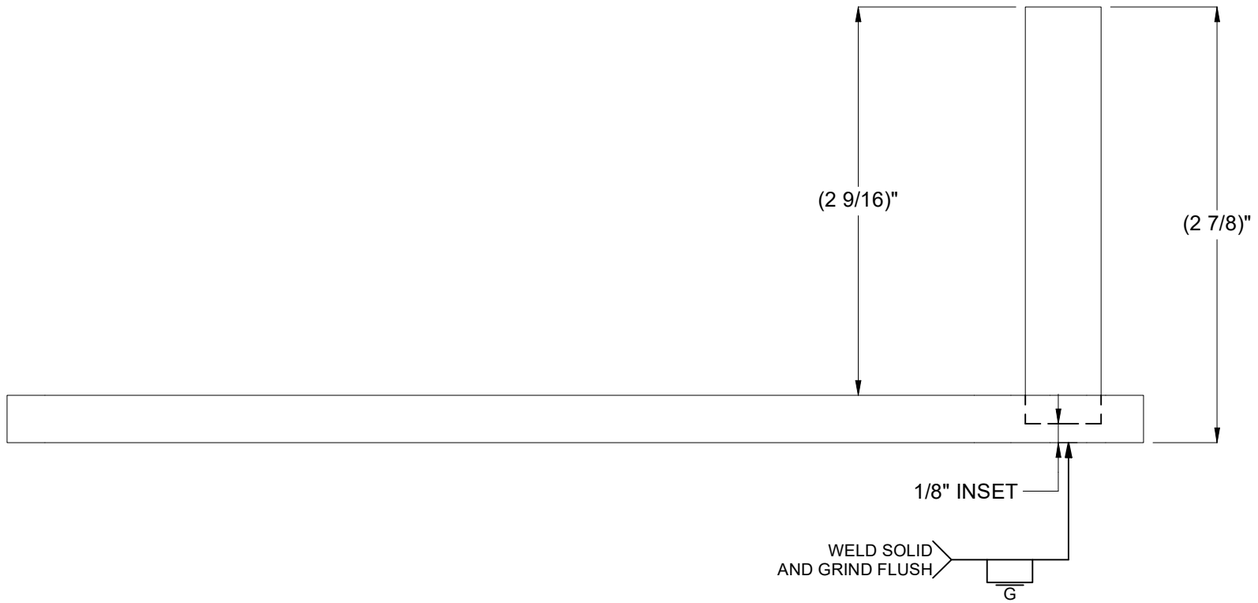
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BILL OF MATERIALS

ITEM	ITEM QTY	QTY	PART NUMBER	DESCRIPTION	PART NAME
1	1	0.854 lbmass	100007835	Heavy Duty Hinge Plate - 2" Frame	200097278
2	1	2.750 in	100003285	STRUCTURAL ROUND BAR A36 STEEL 1/2	100003285





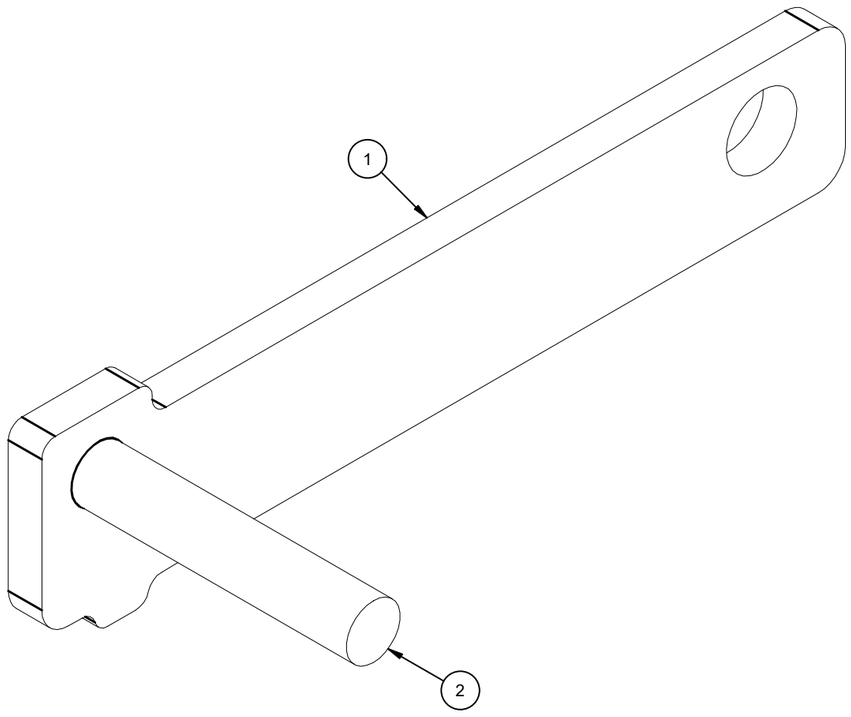


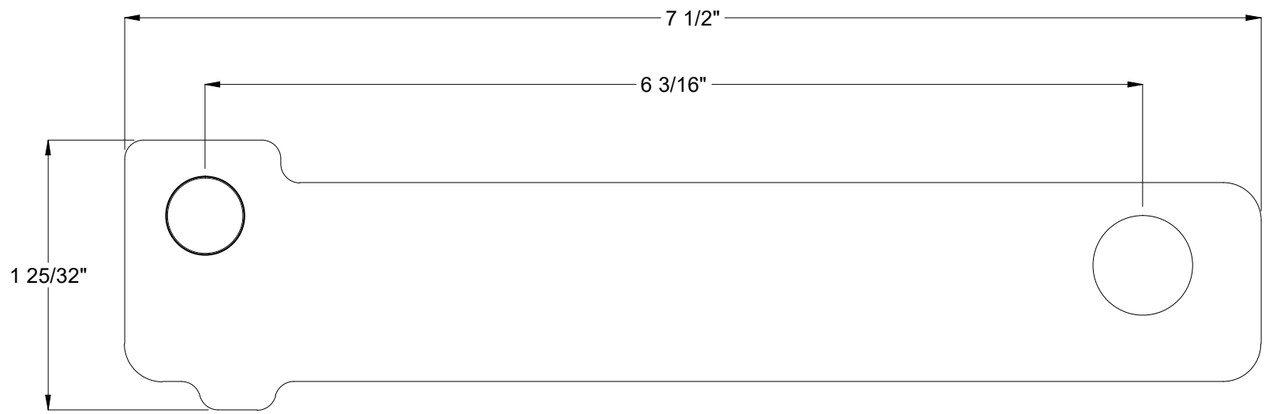
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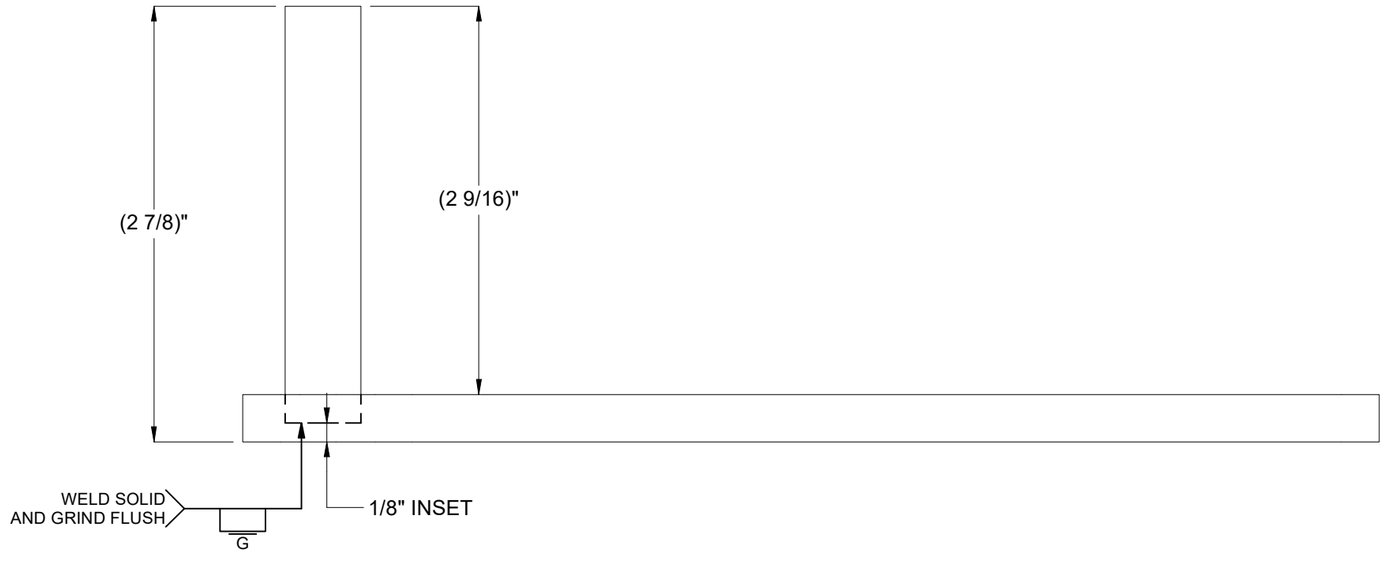
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MATERIAL SURFACE: Smooth			WEIGHT: 1.02 Lbs CREATED: 11/14/2021	DRAWN BY: R. Dohr MODIFIED: 9/29/2025	SHEET: 6

BILL OF MATERIALS

ITEM	ITEM QTY	QTY	PART NUMBER	DESCRIPTION	PART NAME
1	1	0.854 lbmass	100007835	Heavy Duty Hinge Plate - 2" Frame	200097278
2	1	2.750 in	100003285	STRUCTURAL ROUND BAR A36 STEEL 1/2	100003285





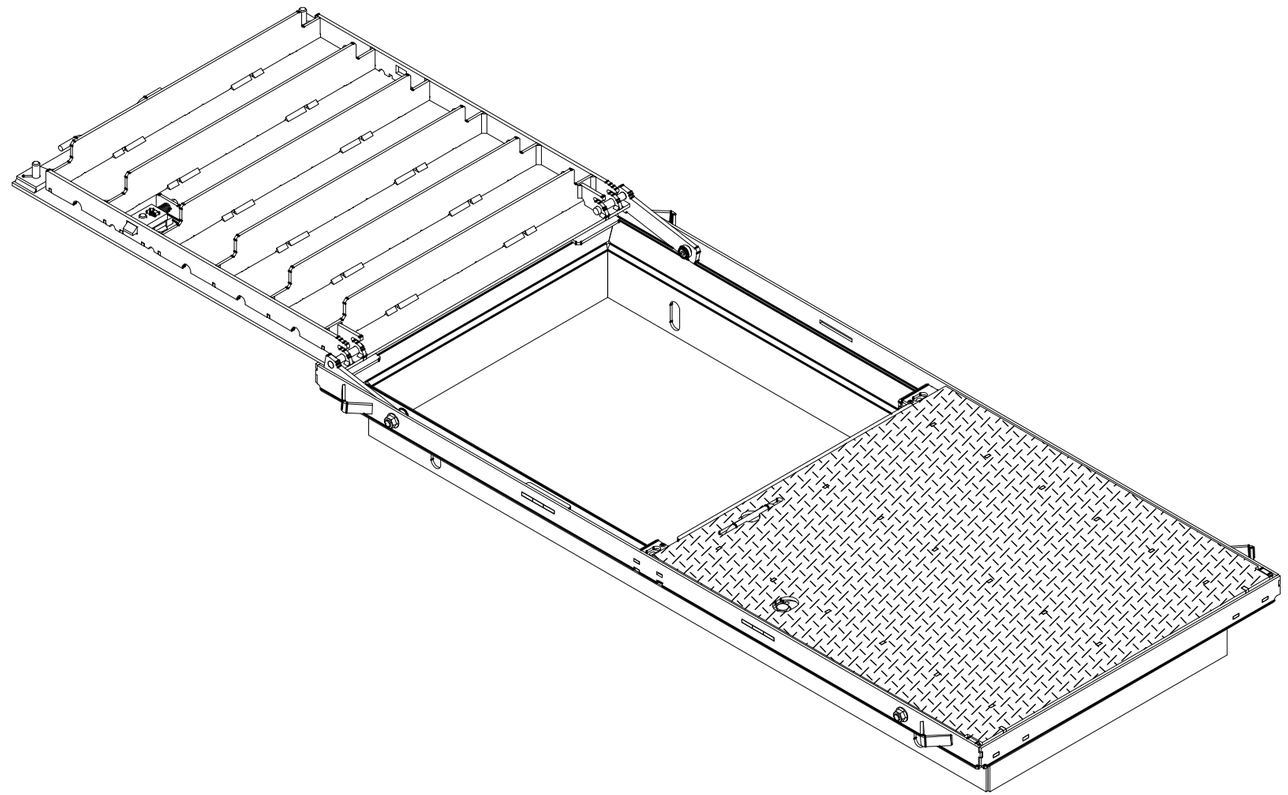


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MATERIAL SURFACE: Smooth			WEIGHT: 1.02 Lbs DRAWN BY: R. Dohr CREATED: 11/14/2021 MODIFIED: 9/29/2025 SHEET: 7

BURN LIST - BOM

PART NAME	PART NUMBER	ITEM QTY	DESCRIPTION	STOCK NUMBER	MATERIAL	MASS	SHEET
200058042	100007736	1	Door Component Steel Plate, Bottom	100007736	SHT STL CQ DP RAW .25 - 36 KSI YIELD	64.731 lbmass	10
200058043	100007735	4	Door Component Steel Side Bar	100007735	STL ASTM A36 SM-HRPO RAW .250	2.902 lbmass	11
200058048	100007734	2	Frame Component Steel Frame Side, Adjustable	100007734	STL ASTM A36 SM-HRPO 60X120 RAW .1875	26.598 lbmass	12
200058050	100007734	2	Frame Component Steel Frame End, Adjustable	100007734	STL ASTM A36 SM-HRPO 60X120 RAW .1875	10.088 lbmass	13
200058089	100007736	1	Door Component Steel Plate, Top	100007736	SHT STL CQ DP RAW .25 - 36 KSI YIELD	64.530 lbmass	14
200062349	100007735	1	2257 Door Component Steel Lap Bar	100007735	STL ASTM A36 SM-HRPO RAW .250	3.182 lbmass	15
200088390	100007734	2	Slam Latch Retainer	100007734	STL ASTM A36 SM-HRPO 60X120 RAW .1875	0.378 lbmass	16
200092276	100007735	2	Frame Component Steel Slam Latch Catch	100007735	STL ASTM A36 SM-HRPO RAW .250	0.309 lbmass	17
200097278	100007835	4	Heavy Duty Hinge Plate - 2" Frame	100007835	STL ASTM A36 SM-HRPO RAW .3125	0.854 lbmass	18
200097287	100007821	12	Door Component Steel Stiffener, Plate	100007821	SHT STL GR80 SM-HRPO RAW .1875	3.712 lbmass	19
200097306	100007735	4	Flatbar Member Hinge Doubler - 180 Degree hinge without torsion assist	100007735	STL ASTM A36 SM-HRPO RAW .250	0.185 lbmass	20
200097366	100007734	4	Frame Component- Door Hinge Catch Plate	100007734	STL ASTM A36 SM-HRPO 60X120 RAW .1875	0.262 lbmass	21
200097411	100007734	2	Flange Nut Bracket - 2 in Adjustable Frame	100007734	STL ASTM A36 SM-HRPO 60X120 RAW .1875	0.372 lbmass	22
200097413	100007734	2	FLANGE NUT RETAINER	100007734	STL ASTM A36 SM-HRPO 60X120 RAW .1875	0.109 lbmass	23
200097414	100007735	2	FLANGE NUT SHIM PLATE	100007735	STL ASTM A36 SM-HRPO RAW .250	0.124 lbmass	24



200058039.idw

MATERIAL FINISH: Galvanized

MATERIAL SURFACE: Diamond Plate

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PART NUMBER & DESCRIPTION: 200058039 CAS2-2257-AHF5-DP-G-SL-OH06

REV: C-1-3

WEIGHT: 277.91 Lbs

DRAWN BY: R. Dohr

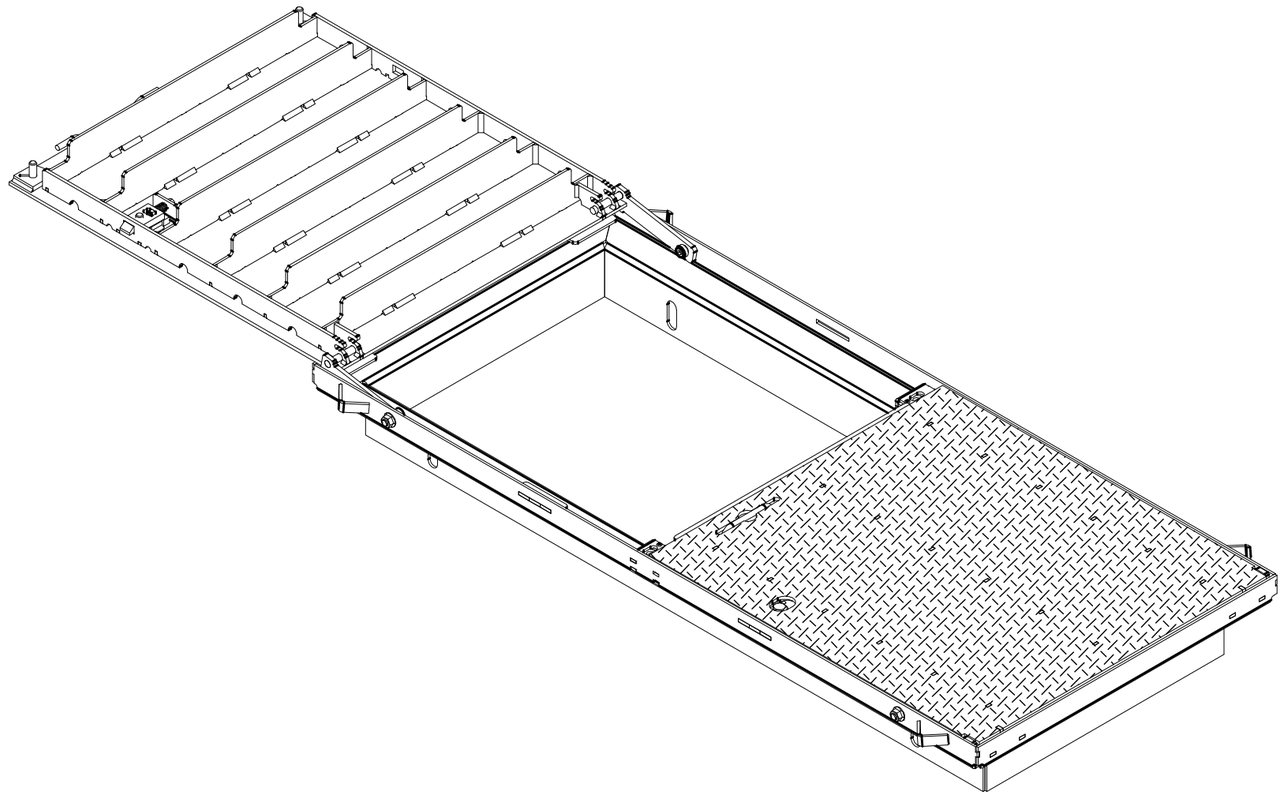
CREATED: 11/14/2021

MODIFIED: 9/29/2025

SHEET: 8

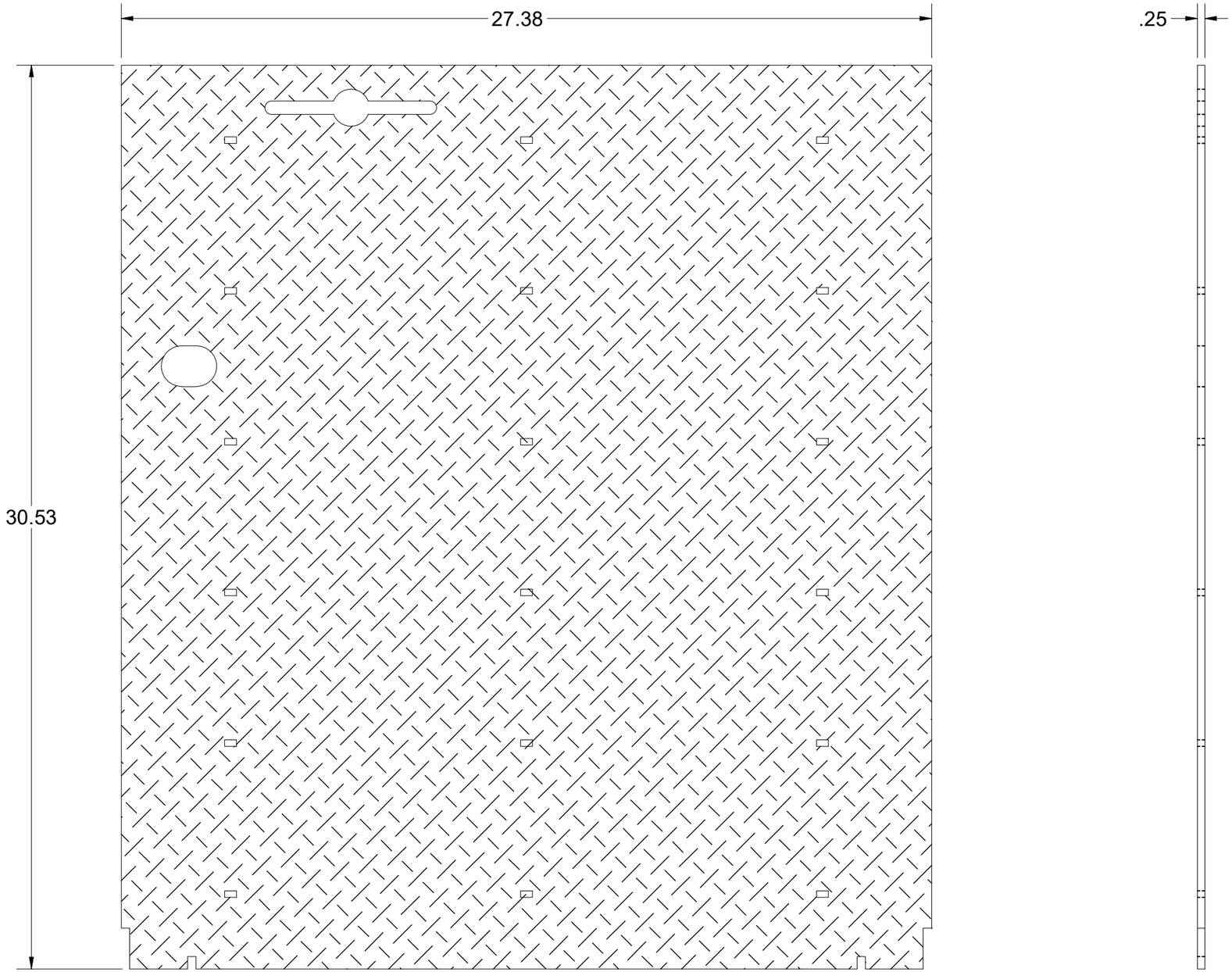
CUT LIST - BOM

PART NAME	PART NUMBER	ITEM QTY	BASE QTY	QTY	DESCRIPTION	Material IFS #	MATERIAL IFS DESCRIPTION	MASS	SHEET
100003285	100003285	4	2.7500 in	11.000 in	STRUCTURAL ROUND BAR A36 STEEL 1/2	100003285	STRUCTURAL ROUND BAR A36 STEEL 1/2 - 0.01	0.1531 lbmass	



200058039.idw

MATERIAL FINISH: Galvanized	Infrastructure JENSEN 450 E. GLENDALE AVE. 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: 200058039 CAS2-2257-AHF5-DP-G-SL-OH06	REV: C-1-3
MATERIAL SURFACE: Diamond Plate			WEIGHT: 277.91 Lbs CREATED: 11/14/2021	DRAWN BY: R. Dohr MODIFIED: 9/29/2025	SHEET: 9



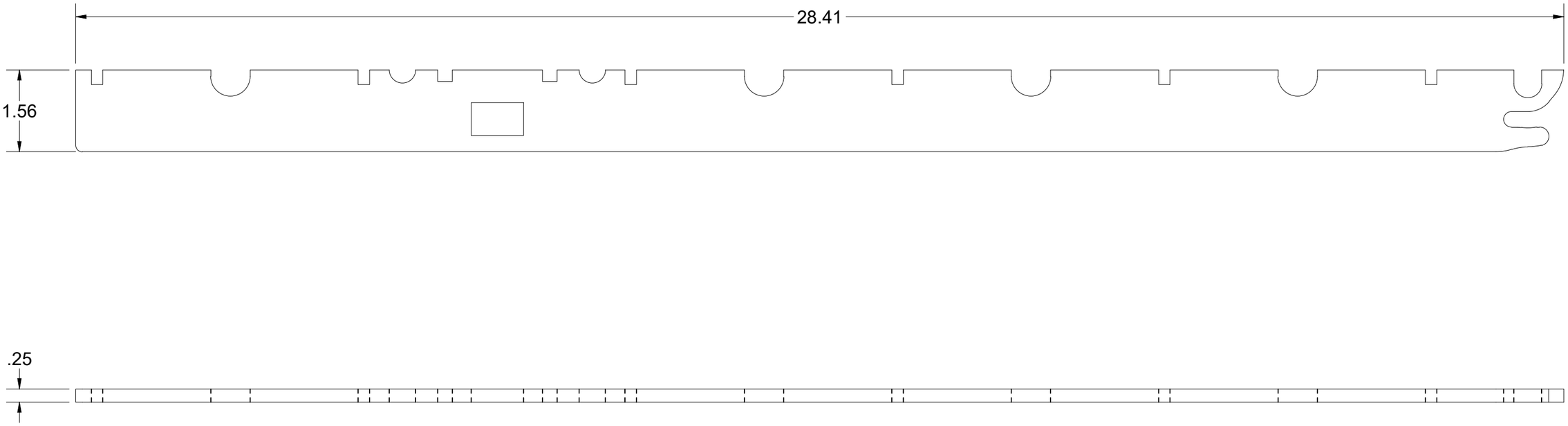
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BEND TABLE				MATERIAL IFS: 100007736			
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.25			
-	-	-	-	MAT DESCRIPTION: SHT STL CQ DP RAW .25 - 36 KSI YIELD			

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NAME & DESCRIPTION:	200058042 Door Component Steel Plate, Bottom	REV: C-1-3
WEIGHT: 64.731 lbmass	DRAWN BY: R. Dohr	SHEET: 10 OF 24
CREATED: 11/14/2021	MODIFIED: 9/29/2025	



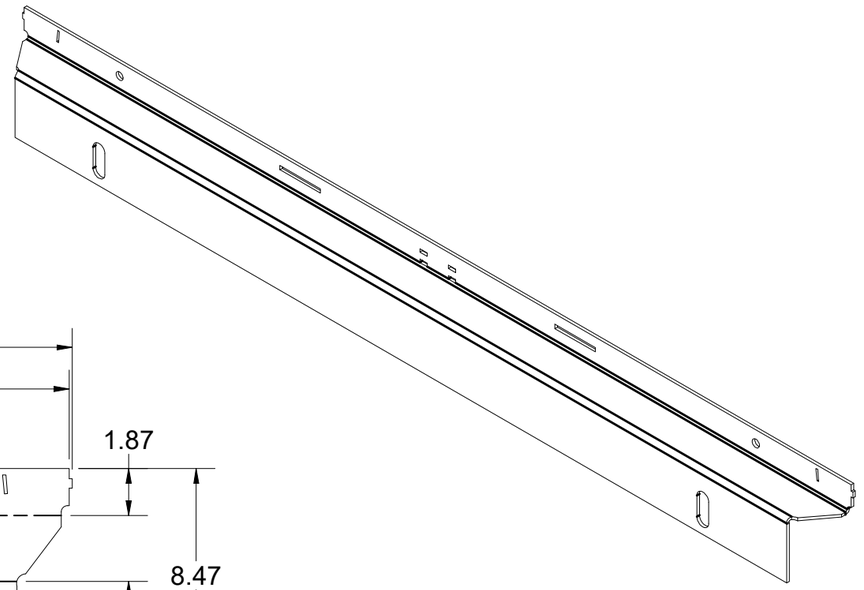
BEND TABLE				MATERIAL IFS: 100007735
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.25
-	-	-	-	MAT DESCRIPTION: STL ASTM A36 SM-HRPO RAW .250

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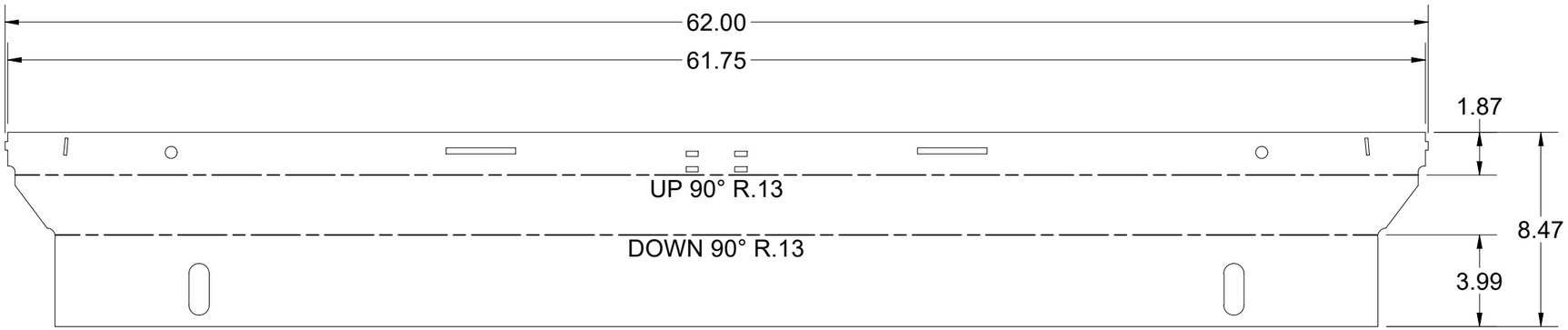
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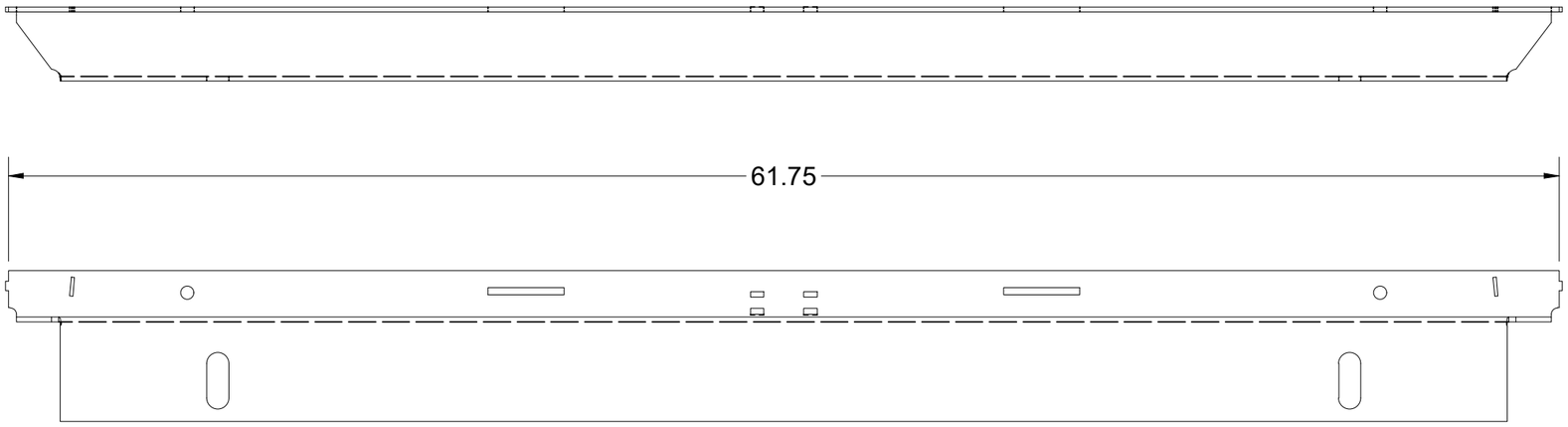
NAME & DESCRIPTION:		REV:
200058043 Door Component Steel Side Bar		C-1-3
WEIGHT: 2.902 lbmass	DRAWN BY: R. Dohr	SHEET: 11 OF 24
CREATED: 11/14/2021	MODIFIED: 9/29/2025	

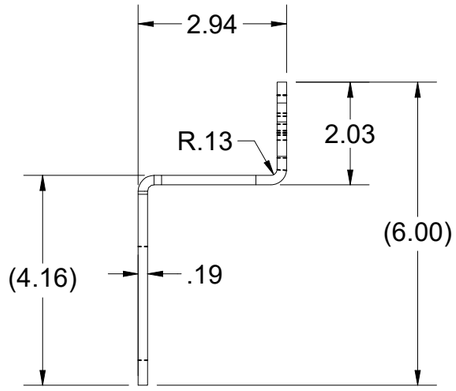
200058039.idw



PART IS SYMMETRICAL







BEND TABLE				MATERIAL IFS: 100007734
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.1875
0.125	1.5	90	0.33	MAT DESCRIPTION: STL ASTM A36 SM-HRPO 60X120 RAW .1875

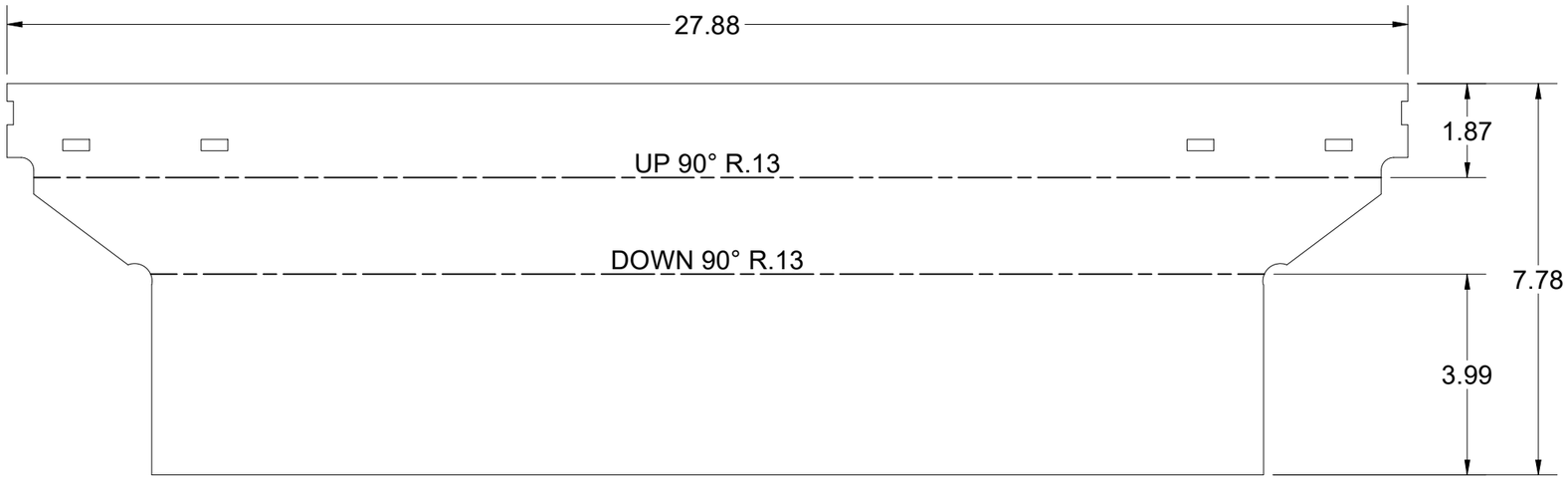
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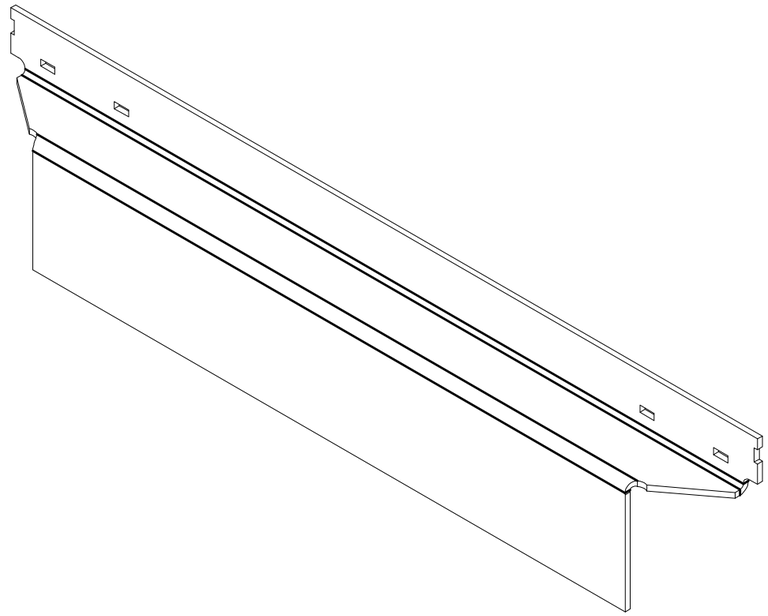
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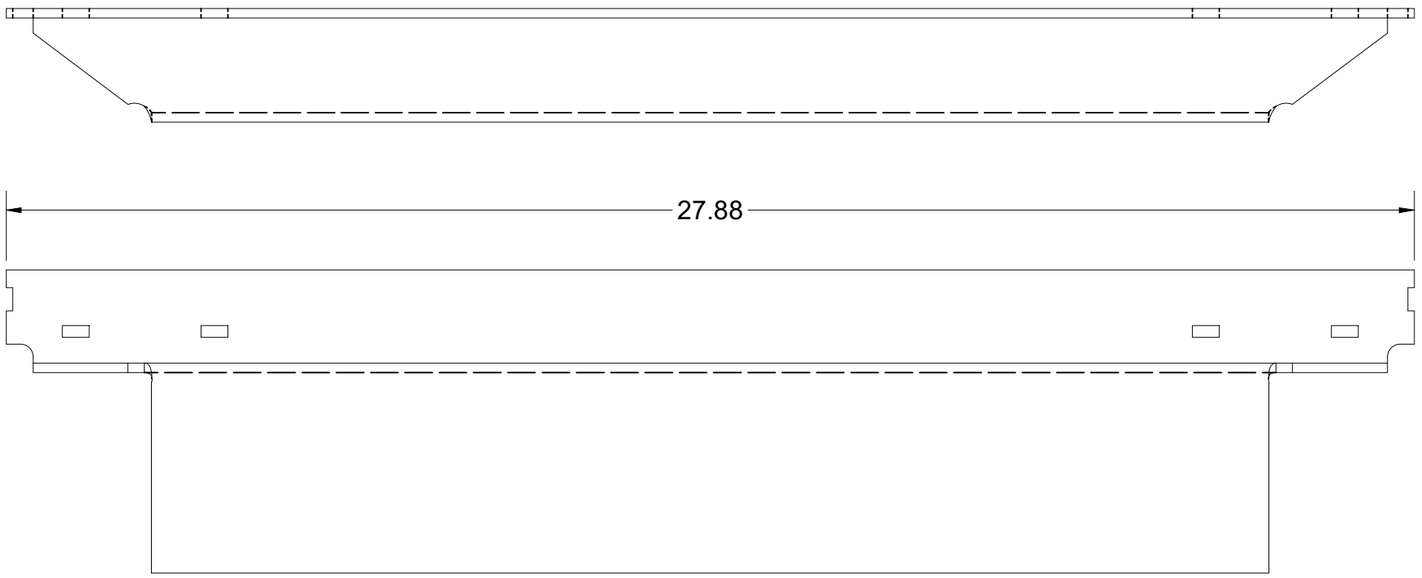
NAME & DESCRIPTION:	200058048 Frame Component Steel Frame Side, Adjustable		REV:
WEIGHT:	26.598 lbmass	DRAWN BY: R. Dohr	SHEET: 12 OF 24
CREATED:	11/14/2021	MODIFIED: 9/29/2025	

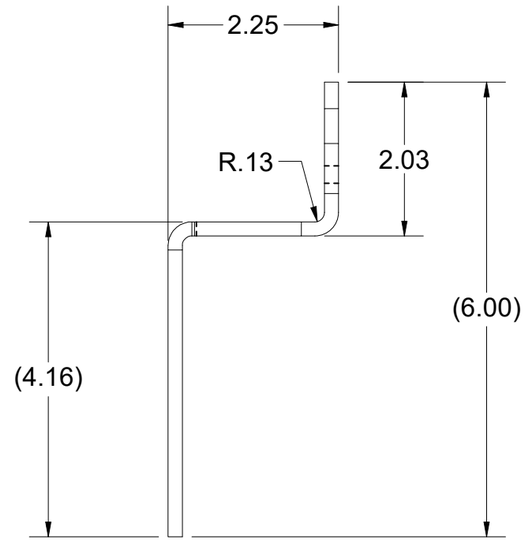
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PART IS SYMMETRICAL









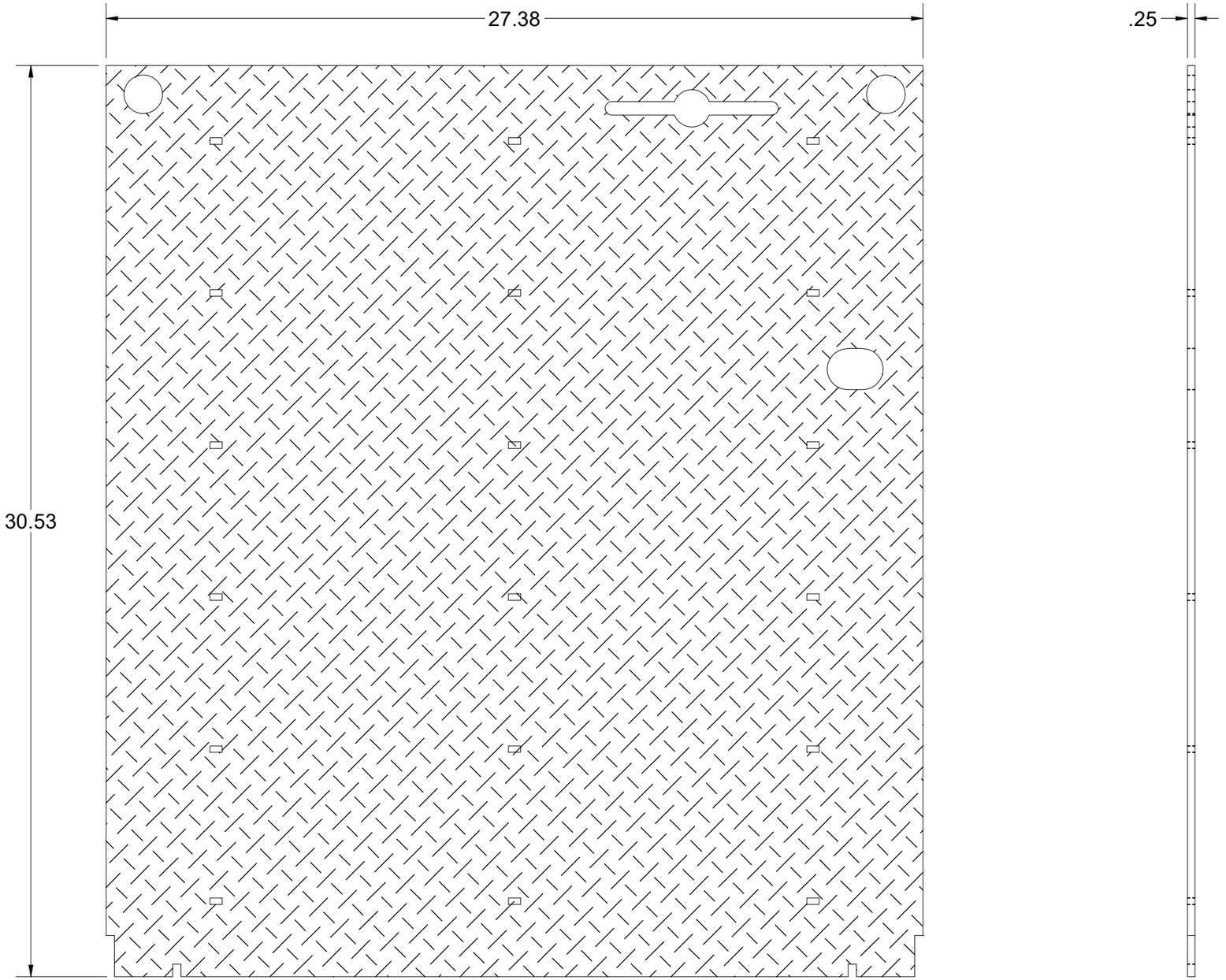
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BEND TABLE				MATERIAL IFS: 100007734
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.1875
0.125	1.5	90	0.33	MAT DESCRIPTION: STL ASTM A36 SM-HRPO 60X120 RAW .1875

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NAME & DESCRIPTION: 200058050 Frame Component Steel Frame End, Adjustable		REV: C-1-3
WEIGHT: 10.088 lbmass	DRAWN BY: R. Dohr	SHEET: 13 OF 24
CREATED: 11/14/2021	MODIFIED: 9/29/2025	



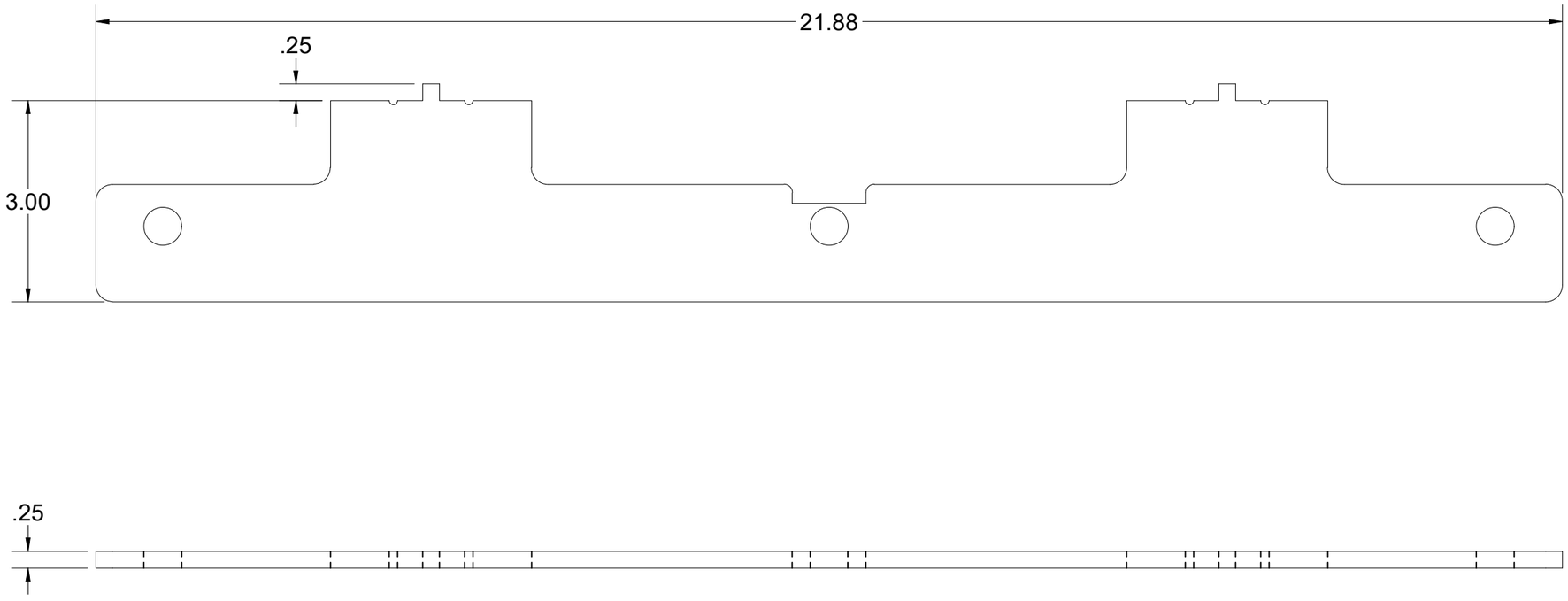
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BEND TABLE				MATERIAL IFS: 100007736			
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.25			
-	-	-	-	MAT DESCRIPTION: SHT STL CQ DP RAW .25 - 36 KSI YIELD			

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NAME & DESCRIPTION:	200058089 Door Component Steel Plate, Top	REV: C-1-3
WEIGHT: 64.530 lbmass	DRAWN BY: R. Dohr	SHEET: 14 OF 24
CREATED: 11/14/2021	MODIFIED: 9/29/2025	



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			

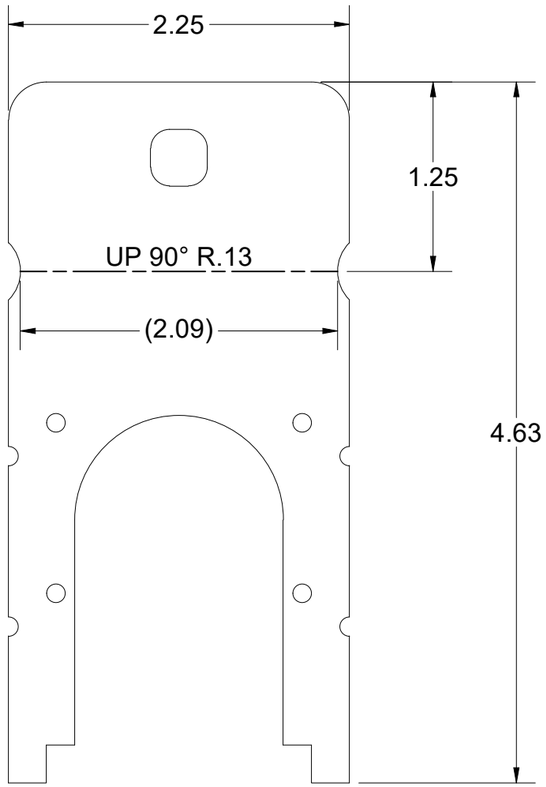
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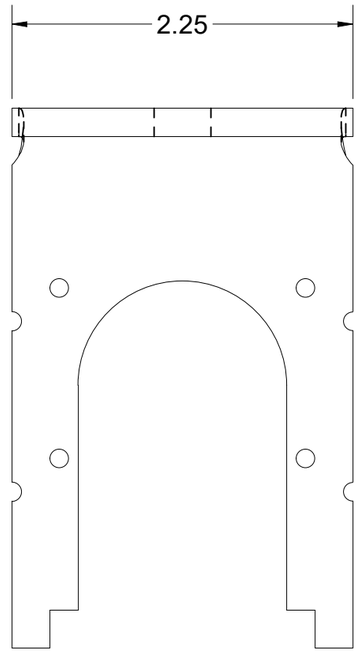
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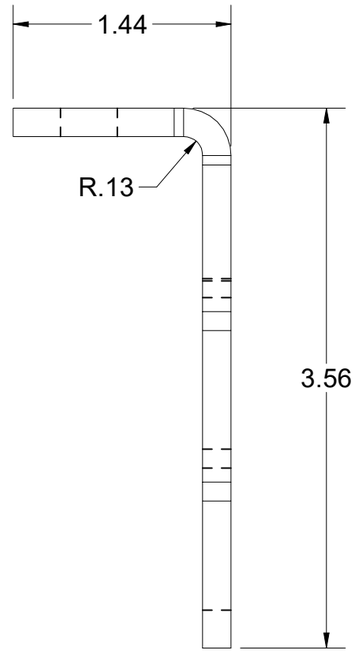
NAME & DESCRIPTION: 200062349 2257 Door Component Steel Lap Bar		REV: C-1-3
WEIGHT: 3.182 lbmass	DRAWN BY: R. Dohr	SHEET: 15 OF 24
CREATED: 11/14/2021	MODIFIED: 9/29/2025	

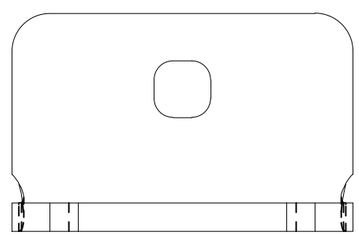
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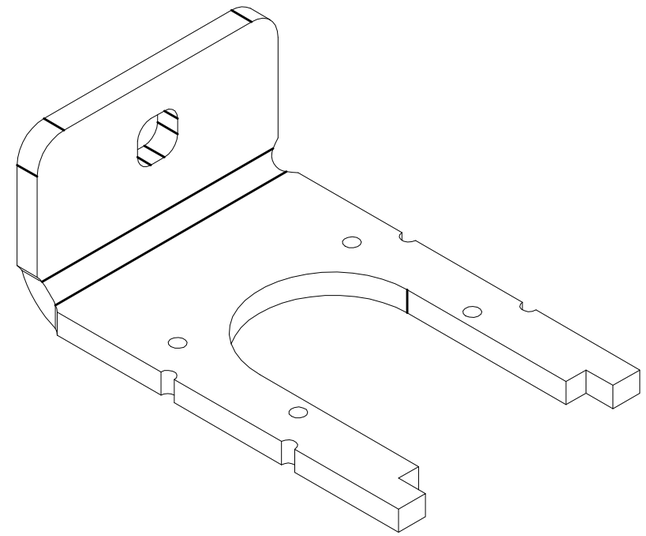
PART IS SYMMETRICAL











BEND TABLE			
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION
0.125	2	90	0.3750

MATERIAL IFS: 100007734

MATERIAL THK: 0.1875

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

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NAME & DESCRIPTION: 200088390 Slam Latch Retainer

REV: C-1-3

WEIGHT: 0.378 lbmass

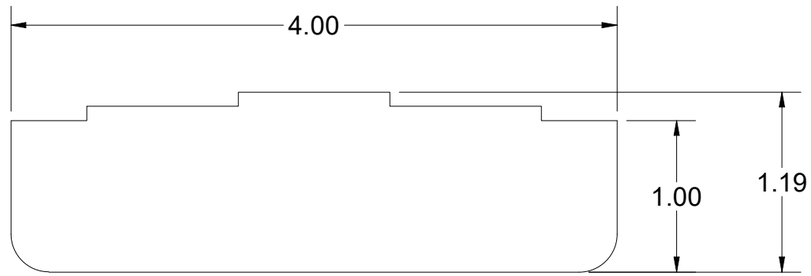
DRAWN BY: R. Dohr

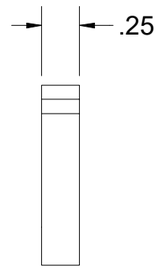
CREATED: 11/14/2021

MODIFIED: 9/29/2025

SHEET: 16 OF 24

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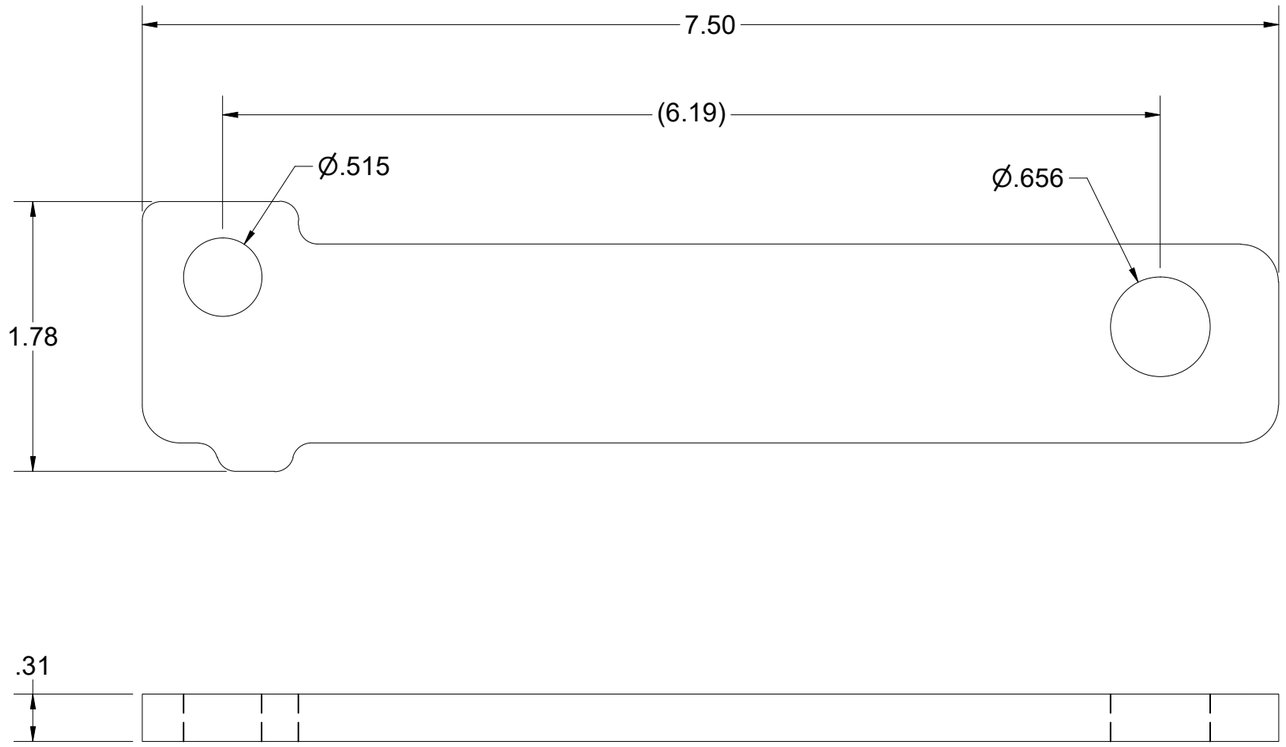
BEND TABLE				MATERIAL IFS: 100007735				
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.25				
-	-	-	-	MAT DESCRIPTION: STL ASTM A36 SM-HRPO RAW .250				

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NAME & DESCRIPTION: 200092276 Frame Component Steel Slam Latch Catch		REV: C-1-3
WEIGHT: 0.309 lbmass	DRAWN BY: R. Dohr	SHEET: 17 OF 24
CREATED: 11/14/2021	MODIFIED: 9/29/2025	

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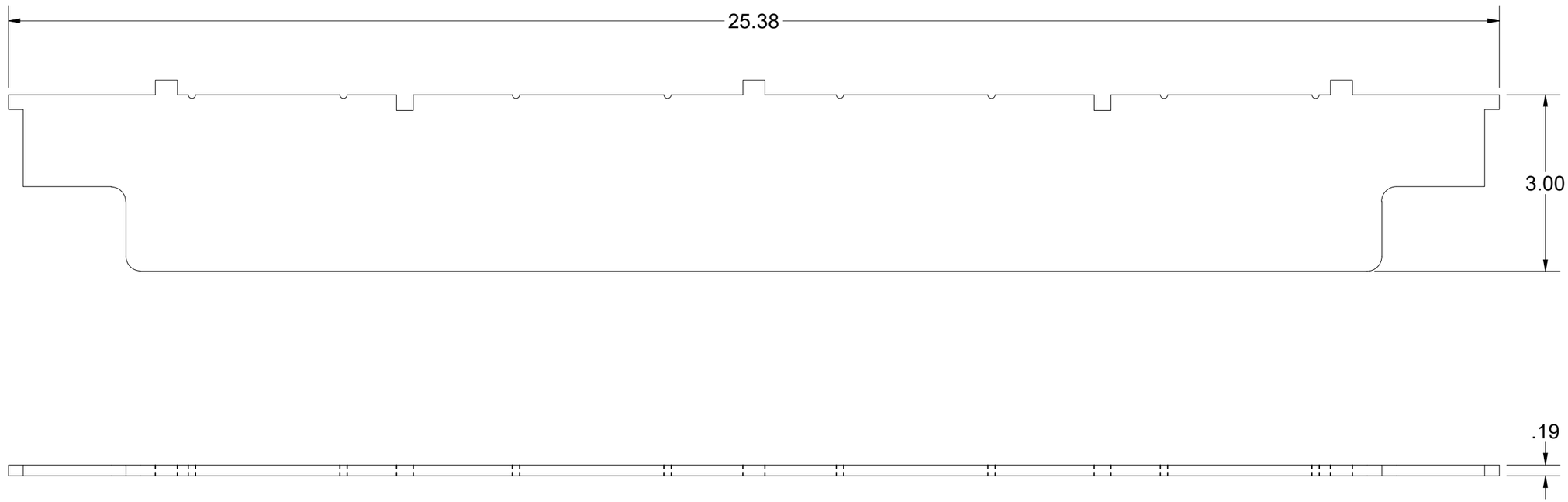
BEND TABLE				MATERIAL IFS: 100007835
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.3125
-	-	-	-	MAT DESCRIPTION: STL ASTM A36 SM-HRPO RAW .3125

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NAME & DESCRIPTION: 200097278 Heavy Duty Hinge Plate - 2" Frame		REV: C-1-3
WEIGHT: 0.854 lbmass	DRAWN BY: R. Dohr	SHEET: 18 OF 24
CREATED: 11/14/2021	MODIFIED: 9/29/2025	

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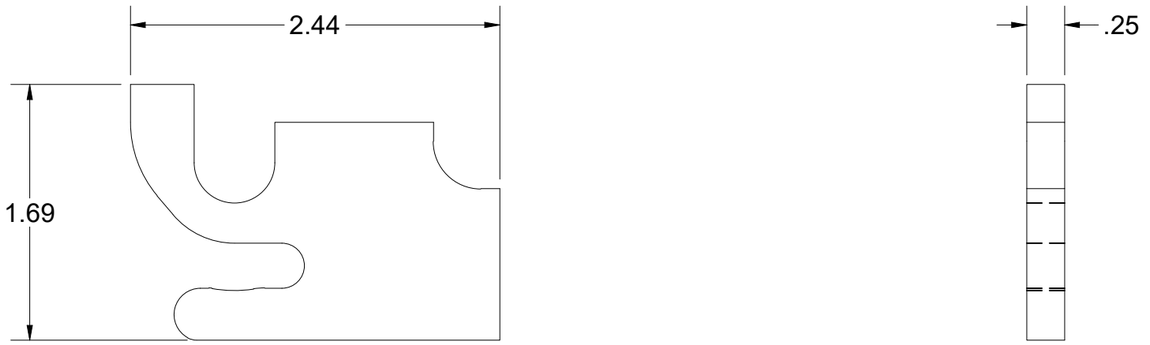


BEND TABLE				MATERIAL IFS: 100007821		NAME & DESCRIPTION: 200097287		REV:
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.1875		Door Component Steel Stiffener, Plate		C-1-3
-	-	-	-	MAT DESCRIPTION: SHT STL GR80 SM-HRPO RAW .1875		WEIGHT: 3.712 lbmass	DRAWN BY: R. Dohr	SHEET: 19 OF 24
						CREATED: 11/14/2021	MODIFIED: 9/29/2025	

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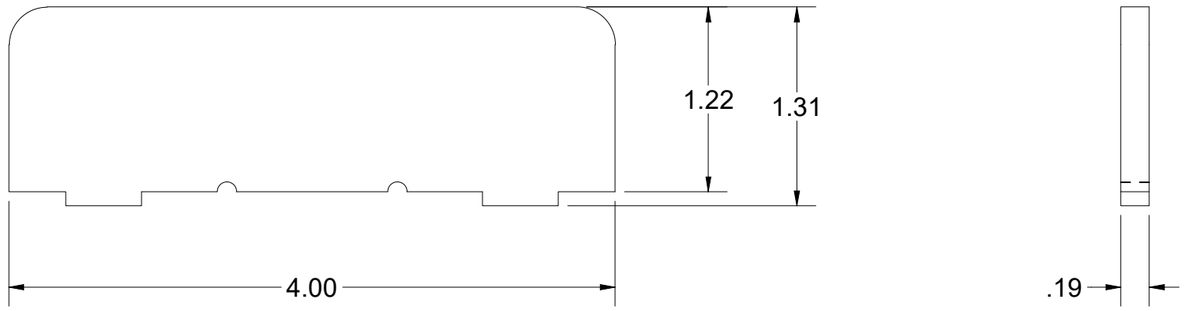
BEND TABLE				MATERIAL IFS: 100007735
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.25
-	-	-	-	MAT DESCRIPTION: STL ASTM A36 SM-HRPO RAW .250

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NAME & DESCRIPTION: 200097306 Flatbar Member Hinge Doubler - 180 Degree hinge without torsion assist		REV: C-1-3
WEIGHT: 0.185 lbmass	DRAWN BY: R. Dohr	SHEET: 20 OF 24
CREATED: 11/14/2021	MODIFIED: 9/29/2025	

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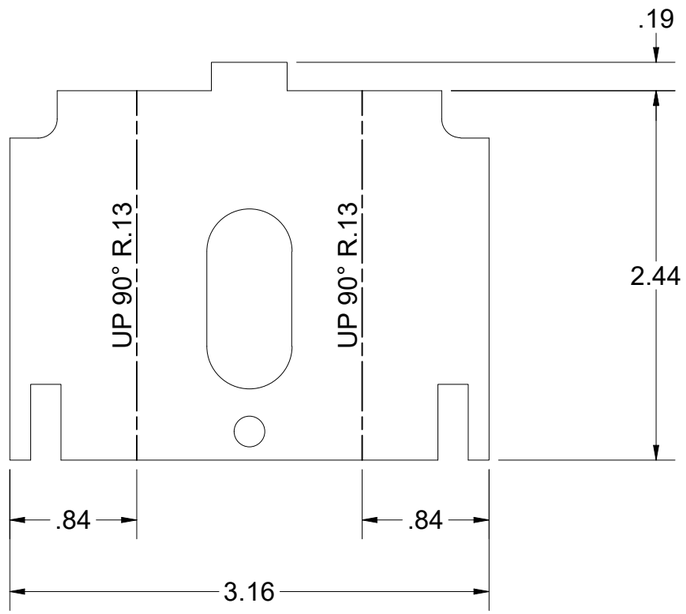
BEND TABLE				MATERIAL IFS: 100007734
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.1875
-	-	-	-	MAT DESCRIPTION: STL ASTM A36 SM-HRPO 60X120 RAW .1875

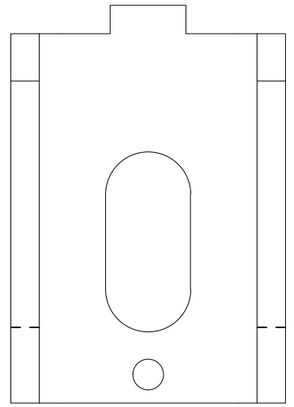
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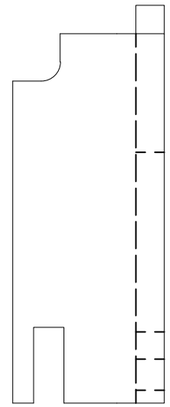
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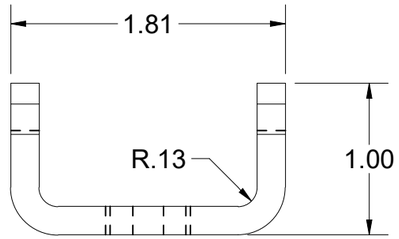
NAME & DESCRIPTION: 200097366 Frame Component- Door Hinge Catch Plate		REV: C-1-3
WEIGHT: 0.262 lbmass	DRAWN BY: R. Dohr	SHEET: 21 OF 24
CREATED: 11/14/2021	MODIFIED: 9/29/2025	

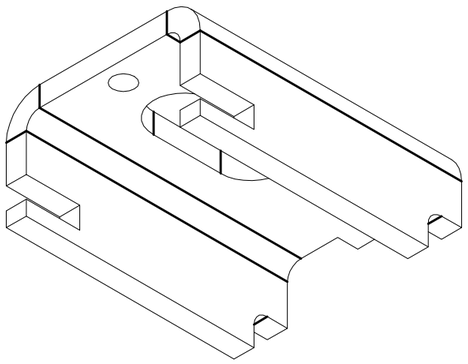
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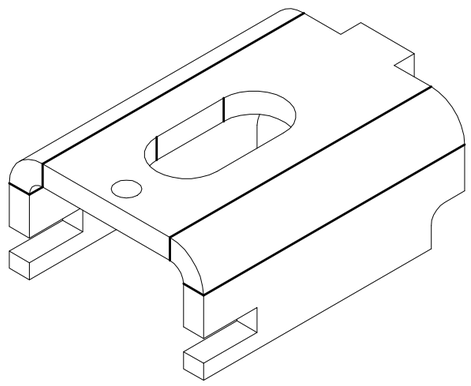












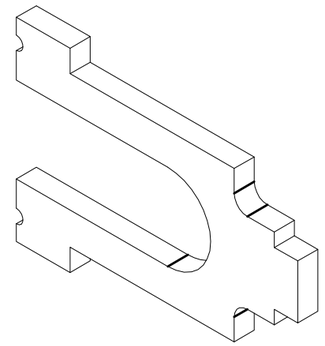
BEND TABLE				MATERIAL IFS: 100007734
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.1875
0.125	1	90	0.3250	MAT DESCRIPTION: STL ASTM A36 SM-HRPO 60X120 RAW .1875

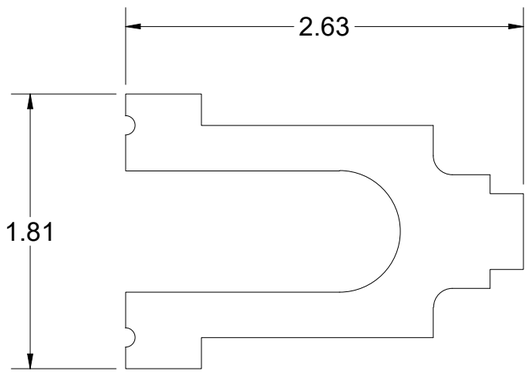
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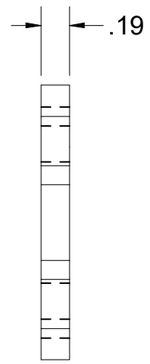
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NAME & DESCRIPTION: 200097411 Flange Nut Bracket - 2 in Adjustable Frame		REV: C-1-3
WEIGHT: 0.372 lbmass	DRAWN BY: R. Dohr	SHEET: 22 OF 24
CREATED: 11/14/2021	MODIFIED: 9/29/2025	

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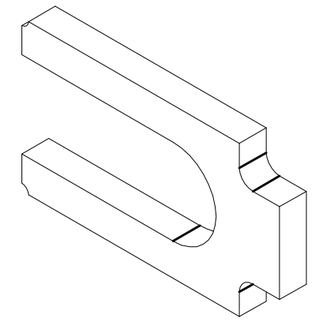
BEND TABLE				MATERIAL IFS: 100007734
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.1875
-	-	-	-	MAT DESCRIPTION: STL ASTM A36 SM-HRPO 60X120 RAW .1875

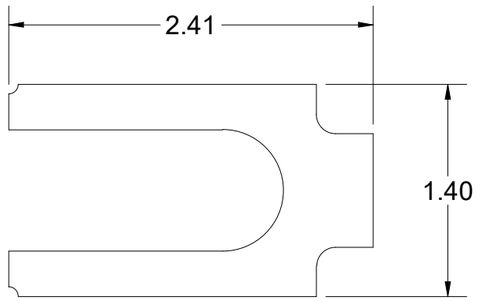
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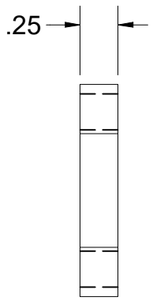
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NAME & DESCRIPTION: 200097413 FLANGE NUT RETAINER		REV: C-1-3
WEIGHT: 0.109 lbmass	DRAWN BY: R. Dohr	SHEET: 23 OF 24
CREATED: 11/14/2021	MODIFIED: 9/29/2025	

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BEND TABLE				MATERIAL IFS: 100007735		NAME & DESCRIPTION: 200097414 FLANGE NUT SHIM PLATE		REV: C-1-3
BEND RADIUS	V-OPENING	BEND ANGLE	BEND DEDUCTION	MATERIAL THK: 0.25				
-	-	-	-	MAT DESCRIPTION: STL ASTM A36 SM-HRPO RAW .250		WEIGHT: 0.124 lbmass	DRAWN BY: R. Dohr	SHEET: 24 OF 24
						CREATED: 11/14/2021	MODIFIED: 9/29/2025	

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