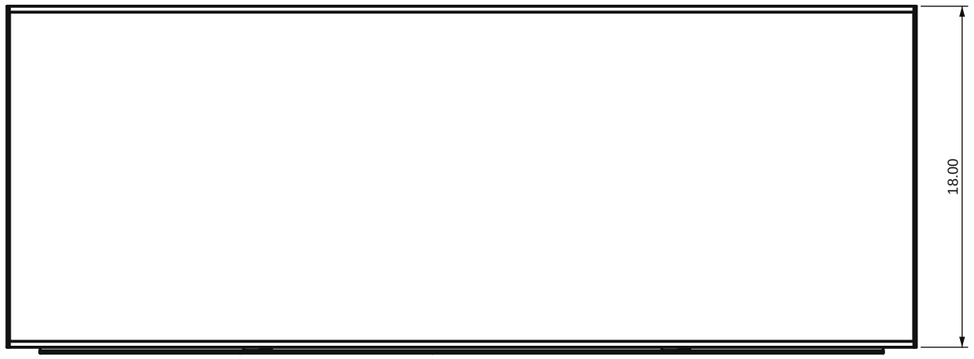
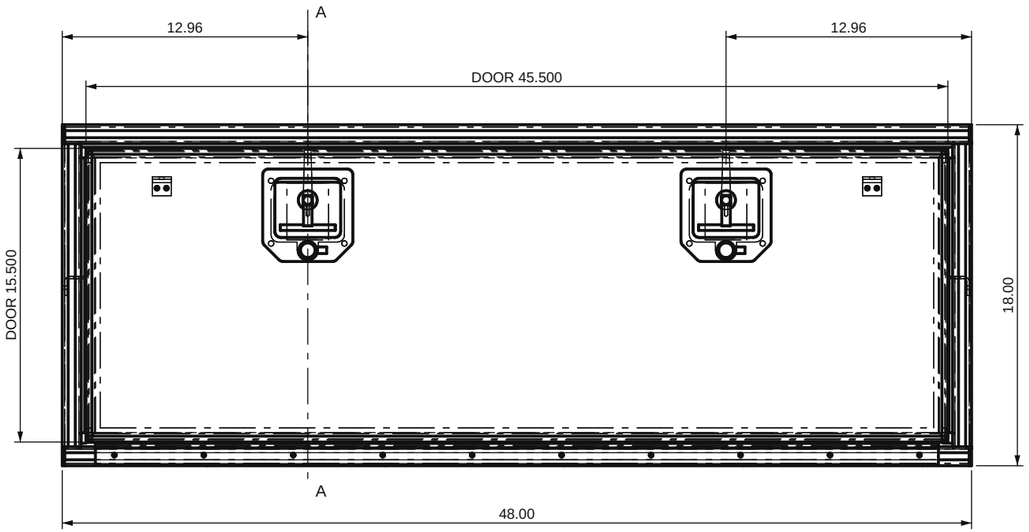


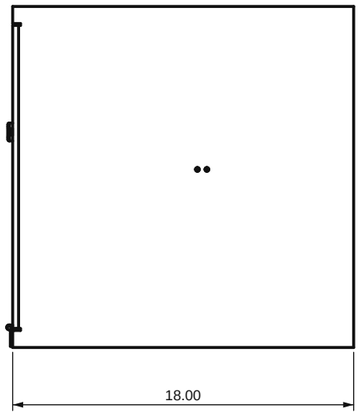
1 / 01 **TOP VIEW**

SCALE 1:8



2 / 01 **FRONT VIEW, DOOR CLOSED**

SCALE 1:8



3 / 01 **RIGHT SIDE**

SCALE 1:8

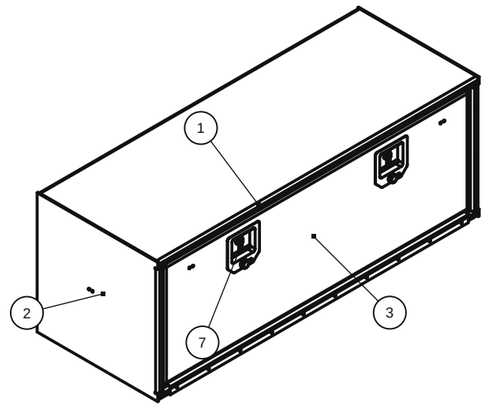
PARTS LIST

ITEM	QTY	DESCRIPTION	MATERIAL	LB
1	1	WRAP: STOP, JAMB, BAND, TOP, BACK, BOTTOM, SILL, JAMB, STOP - 8 BENDS	AL TREAD 0.125	37.4
2	2	END PANEL: PLATE, BAND, JAMB, STOP - 3 BENDS, L AND R	AL TREAD 0.125	9.7
3	1	DOOR: RETURN AND LIP ALL ROUND - 8 BENDS	AL TREAD 0.125	11.0
4	4	CABLE TAB 1.00 x 1.00 - 1 BEND	AL 5052-H32 0.125	0.1
5	1	CONTINUOUS HINGE 2.0 OPEN x 44.50, BOX LEAF DRILLED	AL, BOUGHT	
6	1	SPONGE D-BULB SEAL 1/2, 10.0 FT	EPDM, BOUGHT	
7	2	RECESSED FOLDING T-HANDLE LATCH, LOCKING	TCH 500-51111805 OR EQUAL	
8	2	DOOR CABLE 26.0 WITH EYES	BOUGHT	
9	18	3/16 AL BLIND RIVET, DOME HEAD	BOUGHT	
		ALUMINIUM PARTS TOTAL		**58.2**

CLEAR OPENING (STOP TO STOP)	44.50 x 14.50
DOOR (OUTSIDE OF RETURNS)	45.500 x 15.500
DOOR FACE BEHIND THE FRONT	0.25
GAP ROUND THE DOOR	0.250

GENERAL NOTES

1. DRAWN FROM THE 3D MODEL: VIEWS ARE PROJECTIONS OF THE SOLIDS, SECTIONS ARE CUTS OF THE SOLIDS, WEIGHTS FROM THEIR VOLUMES.
2. FRAME AND STOPS ARE BENT FROM THE WRAP AND THE END PANELS; NO SEPARATE ANGLES. TREAD OUTSIDE; THE TREAD FOLLOWS EVERY BEND.
3. FLATS USE K = 0.445 (FAA-H-8083-31A P. 4-64), INSIDE RADIUS 0.188 = 1.5 T. MAKE A TEST BEND AND ADJUST BEFORE CUTTING THE SET.
4. TWO LATCHES (TWO FROM 36 IN OF BOX LENGTH). CUT-OUT TO THE LATCH MAKER'S TEMPLATE (SHEET 05).
5. MOUNT ON BOTTOM-SUPPORT BRACKETS ONLY. DO NOT FASTEN THROUGH THE TOP, BACK OR ENDS.
6. TREAD LUGS 0.0625 PROUD OF THE 0.125 PLATE. GAPS BETWEEN TWO TREAD FACES ARE SIZED LUG TO LUG; PARTS ON A TREAD FACE (HINGE LEAVES, LATCH FLANGES, RIVET HEADS) SIT ON THE LUG TOPS. WEIGHTS AT 1.90 LB/FT² FOR THE TREAD. FLATS ARE FROM THE PLATE; THE LUGS DO NOT CHANGE THEM.



4 / 01 **ISOMETRIC VIEW**

SCALE 1:16

SAMPLE
NOT FOR CONSTRUCTION

UNITS	**INCHES**
SHEET	AL TREAD 5052 0.125 + LUGS
TABS	AL 5052-H32 0.125
BEND RADIUS	0.188 INSIDE TYP.
K-FACTOR	0.445 (NOTE 3)
LATCH	TCH 500-51111805 OR EQUAL
FINISH	MILL

REV	DATE	DESCRIPTION	INITIAL
A	13 Nov 2026	ISSUED FOR REVIEW (SAMPLE)	RS

DESIGNED	DRAWN	CHECKED
—	RS 13 Nov 2026	RS 13 Nov 2026

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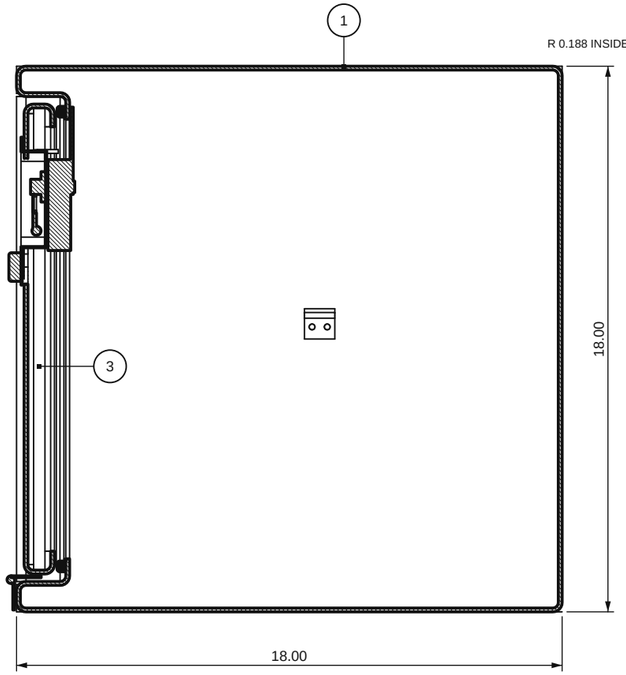
ORIGINAL SIGNED AND SEALED BY

TITLE
UNDERBODY TRUCK BOX — GENERAL ARRANGEMENT

APPROVED BY

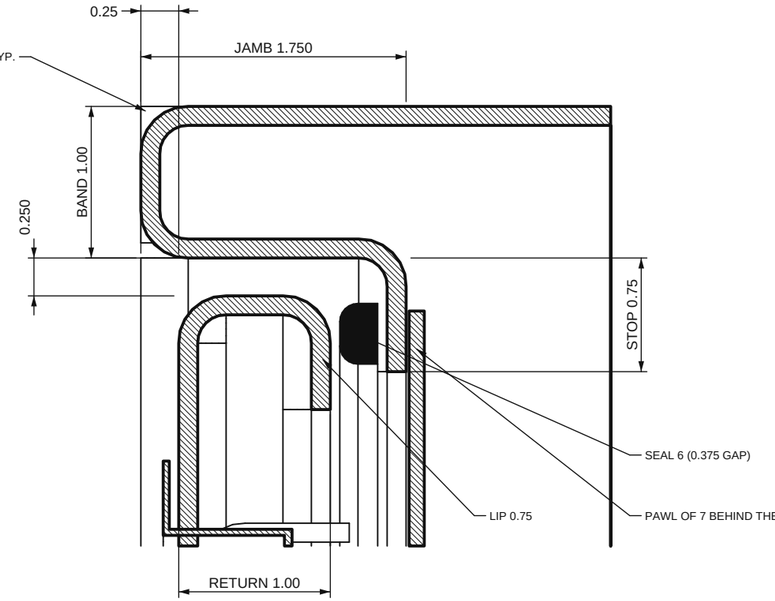
DRAWING NUMBER · SHEET · REV
RS4001-01 · 1 OF 7 · A

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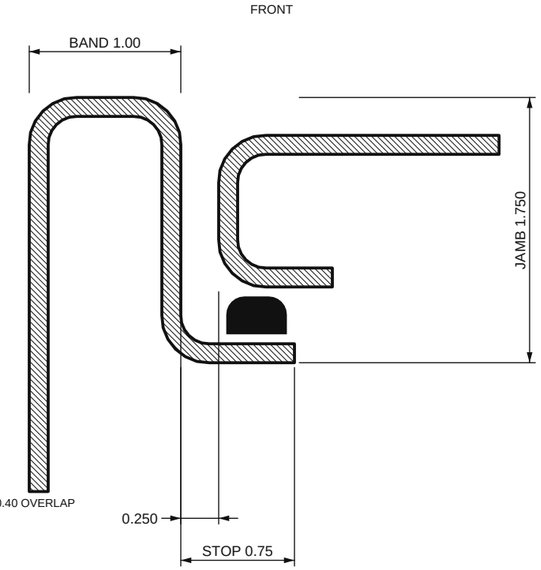
A 02 **SECTION A-A THROUGH A LATCH**

SCALE 1:5



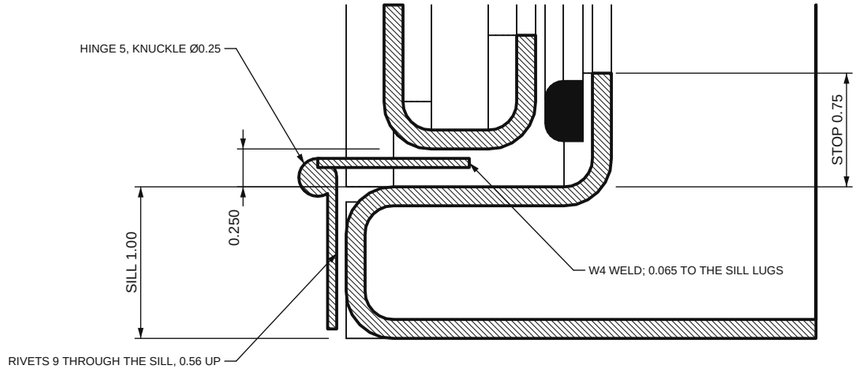
B 02 **DETAIL B - TOP FRAME, SEAL, LATCH**

SCALE 1:1



D 02 **DETAIL D - SIDE FRAME, PLAN**

SCALE 1:1



C 02 **DETAIL C - SILL AND HINGE**

SCALE 1:1

NOTES

1. THE FRAME IS THE SHEET ITSELF: BAND 1.00, JAMB 1.750 DEEP, STOP FLANGE 0.75. THE SAME ON ALL FOUR SIDES (WRAP TOP AND BOTTOM, END PANELS AT THE SIDES).
2. DOOR SITS 0.25 BEHIND THE FRONT WITH A 0.250 GAP ALL ROUND, 0.125 LUG TO LUG (DOOR RETURNS AND JAMBS ARE BOTH TREAD FACES). ITS LIP CLOSES ON THE SEAL 0.375 IN FRONT OF THE STOPS, 0.250 LUG TO LUG.
3. THE STOPS' FRONT FACES ARE THE TREAD SIDE. USE A SPONGE BULB THAT CLOSES OVER THE PATTERN; TEST WITH A LAMP INSIDE.
4. LATCH FLANGE SITS ON THE LUGS: GRIP (LUG TOPS TO PAWL) 1.583; TCH RANGE 1.32-1.75.
5. DOOR SWING CHECKED ON THE MODEL FROM SHUT TO THE CABLE STOP (90°): NOTHING TOUCHES, TREAD LUGS INCLUDED. SMALLEST GAPS 0.090 LUG TO LUG AT THE TOP FRAME (2.25° OPEN), 0.065 UNDER THE HINGE LEAF TO THE SILL LUGS (SHUT), 0.125 LUG TO LUG AT THE SIDES. TURN THE LATCHES FIRST: THE PAWL TURNS 0.020 BEHIND THE STOP.

SAMPLE
NOT FOR CONSTRUCTION

UNITS	**INCHES**
SHEET	AL TREAD 5052 0.125 + LUGS
TABS	AL 5052-H32 0.125
BEND RADIUS	0.188 INSIDE TYP.
K-FACTOR	0.445 (NOTE 3)
LATCH	TCH 500-51111805 OR EQUAL
FINISH	MILL

REV	DATE	DESCRIPTION	INITIAL
A	13 Nov 2026	ISSUED FOR REVIEW (SAMPLE)	RS

DESIGNED	DRAWN	CHECKED
—	RS 13 Nov 2026	RS 13 Nov 2026

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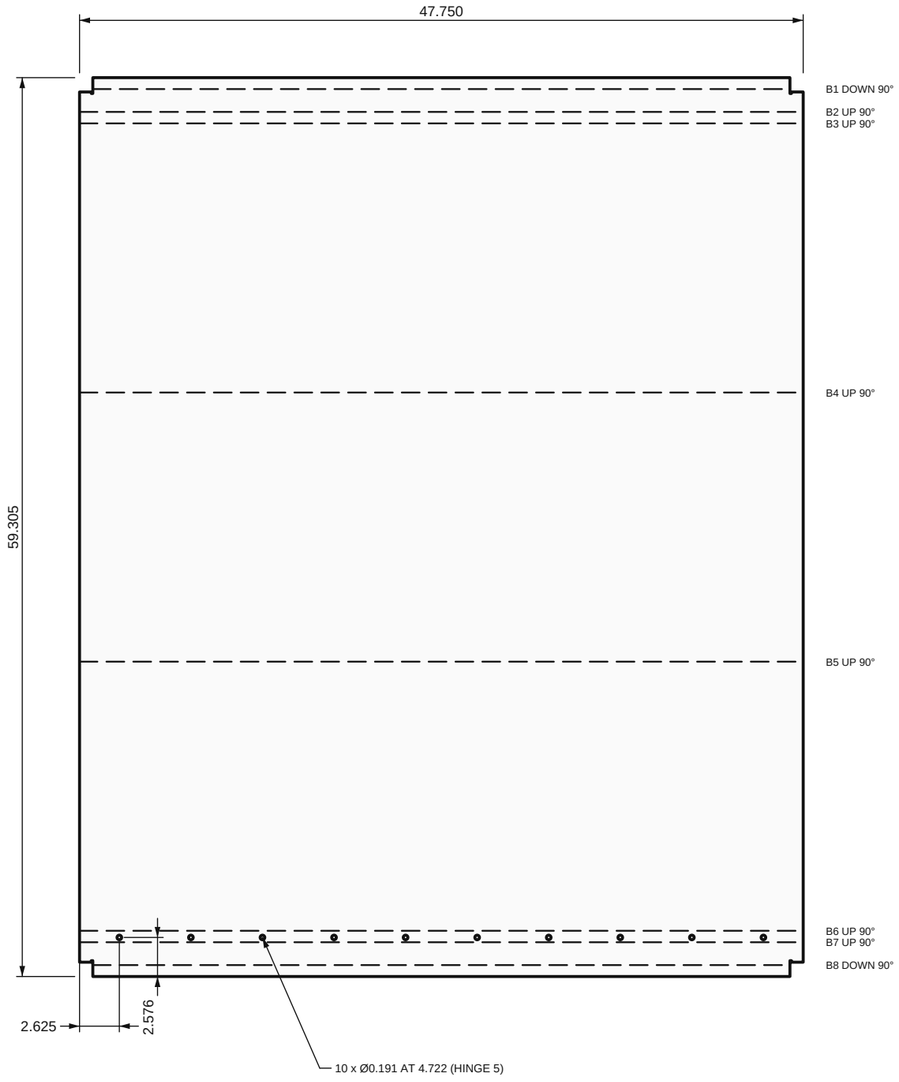
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TITLE
UNDERBODY TRUCK BOX — SECTIONS AND DETAILS

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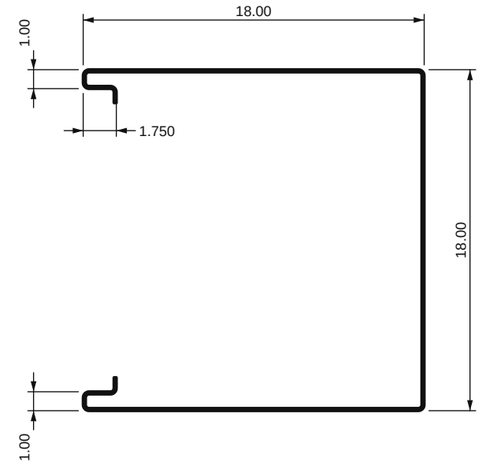
DRAWING NUMBER · SHEET · REV
RS4001-02 · 2 OF 7 · A

ITEM 1 - 1 OFF - TREAD SIDE DOWN



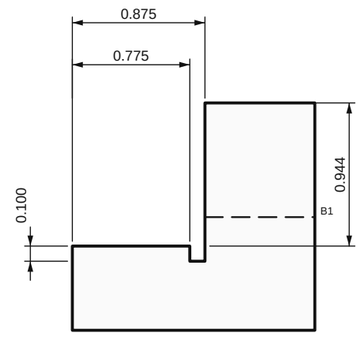
1 / 03 **ITEM 1 FLAT PATTERN**

SCALE 1:10



2 / 03 **ITEM 1 FORMED (CUT OF THE MODEL)**

SCALE 1:8



E / 03 **DETAIL E - STOP NOTCH AND RELIEF, 4 PLACES**

SCALE 1:1

ITEM 1 BEND TABLE

BEND	FROM TOP EDGE	ANGLE	DIRECTION	LENGTH
B1	0.753	90°	DOWN, R 0.188	46.00
B2	2.260	90°	UP, R 0.188	47.75
B3	3.017	90°	UP, R 0.188	47.75
B4	20.774	90°	UP, R 0.188	47.75
B5	38.531	90°	UP, R 0.188	47.75
B6	56.288	90°	UP, R 0.188	47.75
B7	57.045	90°	UP, R 0.188	47.75
B8	58.552	90°	DOWN, R 0.188	46.00

BEND ALLOWANCE 90°	0.382
BEND DEDUCTION 90°	0.243
FLAT	47.750 x 59.305
WEIGHT	37.4 LB

NOTES

1. B1/B8 MAKE THE STOP FLANGES, B2/B7 THE JAMBS, B3/B6 THE BANDS, B4/B5 THE BACK CORNERS.
2. STOP FLANGES STOP 1.000 FROM EACH END (THE END PANELS' JAMBS SIT THERE); RELIEF 0.100 x 0.100 (DETAIL E).
3. TREAD SIDE DOWN AS DRAWN: UP BENDS RISE TOWARD YOU.
4. MODEL CHECK: MID-PLANE AREA OF THE FLAT 2832.28 SQ IN = SOLID VOLUME / T 2832.28 (DIFF 0.000 %).
5. CUT FILE: RS4001-1-WRAP.DXF (INCHES; CUT, BEND_UP, BEND_DOWN LAYERS).

SAMPLE
NOT FOR CONSTRUCTION

UNITS	**INCHES**
SHEET	AL TREAD 5052 0.125 + LUGS
TABS	AL 5052-H32 0.125
BEND RADIUS	0.188 INSIDE TYP.
K-FACTOR	0.445 (NOTE 3)
LATCH	TCH 500-51111805 OR EQUAL
FINISH	MILL

REV	DATE	DESCRIPTION	INITIAL
A	13 Nov 2026	ISSUED FOR REVIEW (SAMPLE)	RS

DESIGNED	DRAWN	CHECKED
—	RS 13 Nov 2026	RS 13 Nov 2026

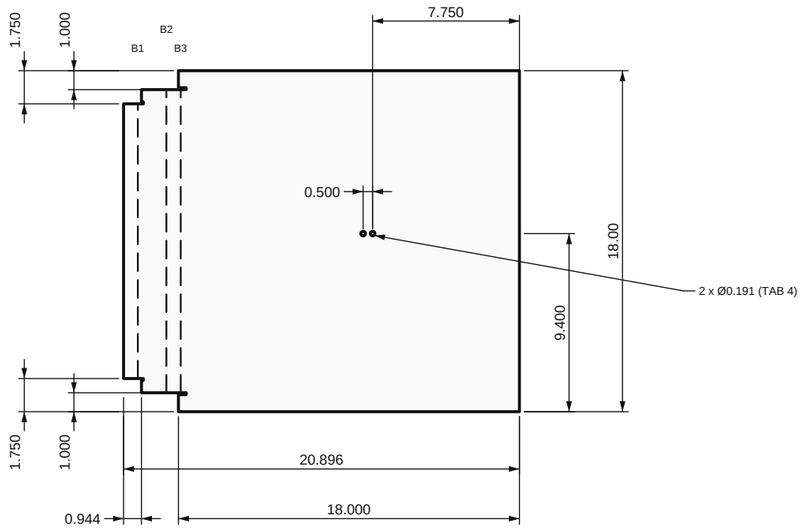
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TITLE
UNDERBODY TRUCK BOX — ITEM 1 WRAP

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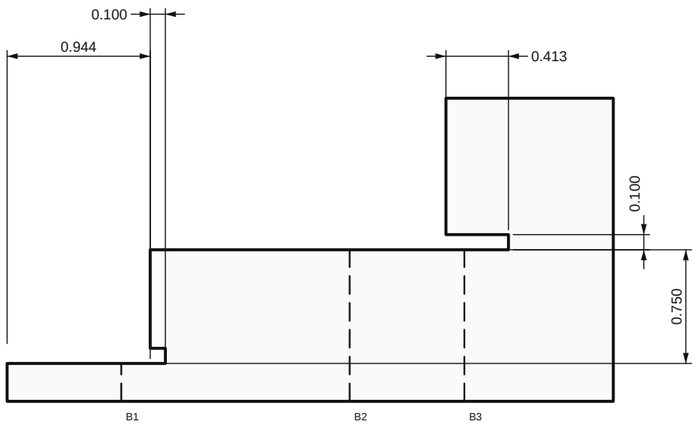
DRAWING NUMBER · SHEET · REV
RS4001-03 · 3 OF 7 · A



ITEM 2L - SEEN FROM INSIDE

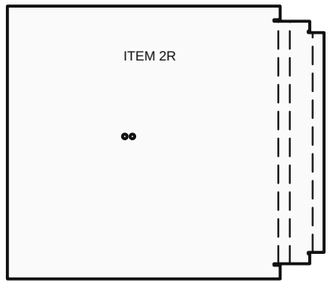
2L / 04 **ITEM 2L FLAT PATTERN, TREAD SIDE DOWN**

SCALE 1:8



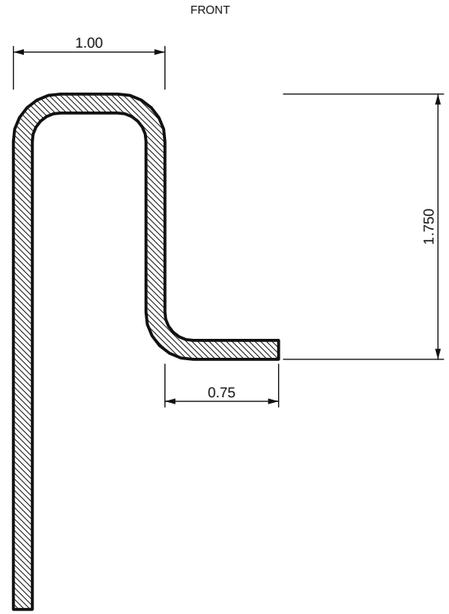
F / 04 **DETAIL F - TOP CORNER (BOTTOM ALIKE)**

SCALE 1:1



2R / 04 **ITEM 2R = MIRROR OF 2L**

SCALE 1:10



2 / 04 **ITEM 2L FORMED, PLAN (CUT OF THE MODEL)**

SCALE 1:1

ITEM 2L BEND TABLE

BEND	FROM STOP EDGE	ANGLE	DIRECTION	LENGTH
B1	0.753	90°	DOWN, R 0.188	14.50
B2	2.260	90°	UP, R 0.188	16.00
B3	3.017	90°	UP, R 0.188	16.00

FLAT	20.896 x 18.00
WEIGHT EACH	4.9 LB

NOTES

1. 2 OFF, HANDED: 2L AS DRAWN, 2R ITS MIRROR. BOTH WITH THE TREAD OUTSIDE.
2. B1 MAKES THE STOP FLANGE (1.750 TO 16.250 UP), B2 THE JAMB, B3 THE SIDE BAND. ABOVE AND BELOW THE BAND THE PLATE RUNS TO THE FRONT EDGE.
3. RELIEFS 0.100 WIDE WHERE A FLANGE STOPS (DETAIL F).
4. MODEL CHECK: MID-PLANE AREA OF THE FLAT 369.26 SQ IN = SOLID VOLUME / T 369.26 (DIFF 0.000 %).
5. CUT FILES: RS4001-2L-END-LEFT.DXF, RS4001-2R-END-RIGHT.DXF.

SAMPLE
NOT FOR CONSTRUCTION

UNITS	**INCHES**
SHEET	AL TREAD 5052 0.125 + LUGS
TABS	AL 5052-H32 0.125
BEND RADIUS	0.188 INSIDE TYP.
K-FACTOR	0.445 (NOTE 3)
LATCH	TCH 500-51111805 OR EQUAL
FINISH	MILL

REV	DATE	DESCRIPTION	INITIAL
A	13 Nov 2026	ISSUED FOR REVIEW (SAMPLE)	RS

DESIGNED	DRAWN	CHECKED
—	RS 13 Nov 2026	RS 13 Nov 2026

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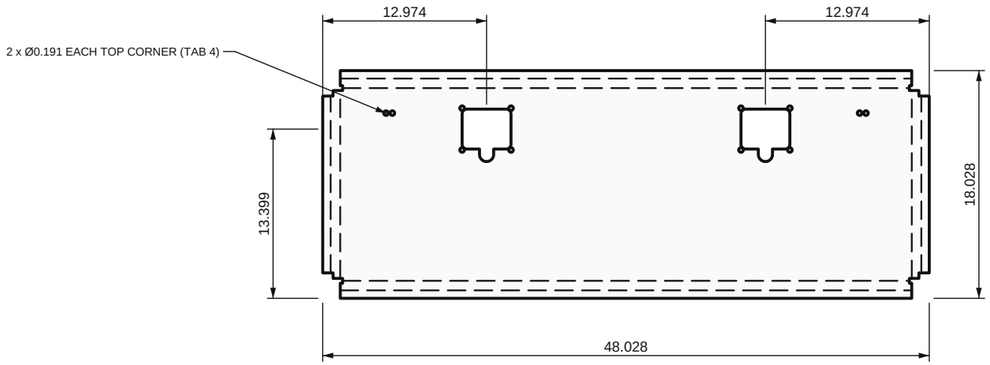
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TITLE
UNDERBODY TRUCK BOX — ITEM 2 END PANELS

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RS4001-04 · 4 OF 7 · A

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ITEM 3 - TREAD SIDE DOWN - ALL BENDS UP 90°

1/05 **ITEM 3 FLAT PATTERN (SYMMETRIC)**

SCALE 1:12

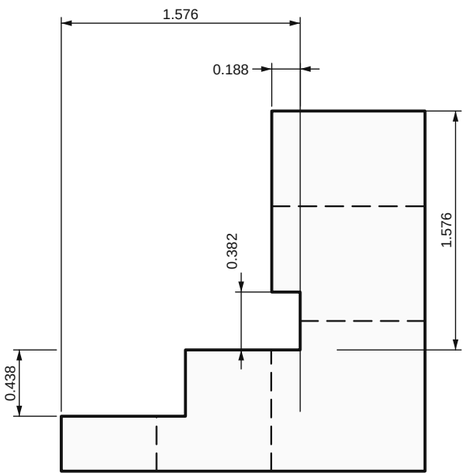
ITEM 3 BEND TABLE

BEND	FROM FLAT EDGE	ANGLE	DIRECTION	LENGTH
T1	1.385	90°	UP, R 0.188	44.88
T2	0.628	90°	UP, R 0.188	45.25
M1	1.385	90°	UP, R 0.188	44.88
M2	0.628	90°	UP, R 0.188	45.25
L1	1.385	90°	UP, R 0.188	14.88
L2	0.628	90°	UP, R 0.188	14.00
R1	1.385	90°	UP, R 0.188	14.88
R2	0.628	90°	UP, R 0.188	14.00

FLAT	48.028 x 18.028
FORMED	45.500 x 15.500 x 1.00
WEIGHT	11.0 LB

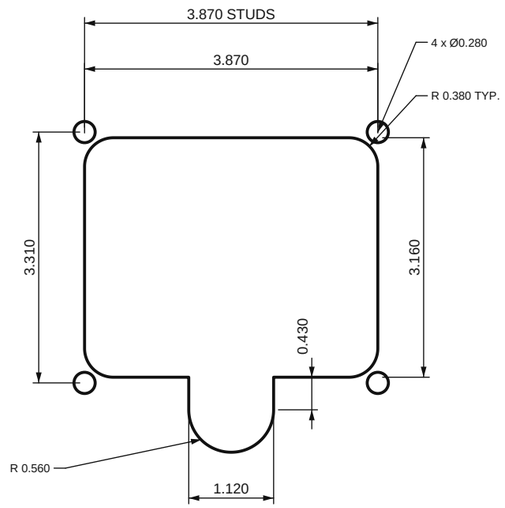
NOTES

1. A RECTANGLE BENT TWICE ON ALL FOUR SIDES: RETURN 1.00, THEN LIP 0.75 INWARD. T = TOP, M = BOTTOM, L/R = SIDES; 1 = FACE TO RETURN, 2 = RETURN TO LIP.
2. W3: WELD THE FOUR CORNERS (FACE CORNER AND RETURN CORNER), DRESS TO THE BEND RADIUS.
3. W4: HINGE 5'S DOOR LEAF IS WELDED UNDER THE BOTTOM RETURN; NO HOLES THERE (SHEET 07).
4. MODEL CHECK: MID-PLANE AREA OF THE FLAT 831.15 SQ IN = SOLID VOLUME / T 831.17 (DIFF 0.003 %) (CORNER WELDS TAKEN OUT).
5. CUT FILE: RS4001-3-DOOR.DXF.



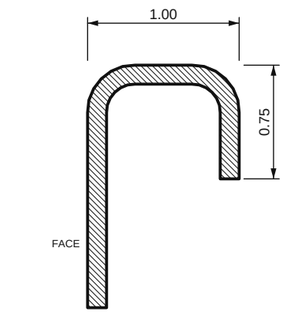
G/05 **DETAIL G - CORNER, 4 PLACES**

SCALE 1:1



H/05 **DETAIL H - LATCH CUT-OUT, 2 PLACES**

SCALE 1:2



3/05 **EDGE, ALL ROUND**

SCALE 1:1

SAMPLE
NOT FOR CONSTRUCTION

UNITS	**INCHES**
SHEET	AL TREAD 5052 0.125 + LUGS
TABS	AL 5052-H32 0.125
BEND RADIUS	0.188 INSIDE TYP.
K-FACTOR	0.445 (NOTE 3)
LATCH	TCH 500-51111805 OR EQUAL
FINISH	MILL

REV	DATE	DESCRIPTION	INITIAL
A	13 Nov 2026	ISSUED FOR REVIEW (SAMPLE)	RS

DESIGNED	DRAWN	CHECKED
—	RS 13 Nov 2026	RS 13 Nov 2026

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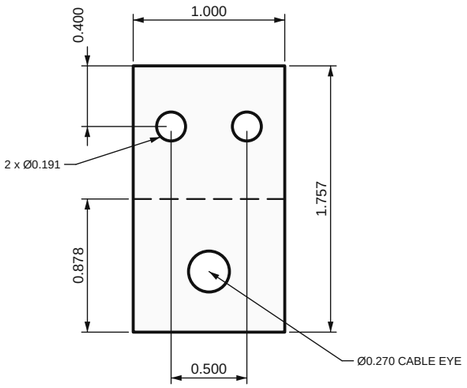
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UNDERBODY TRUCK BOX — ITEM 3 DOOR

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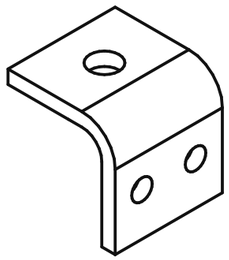
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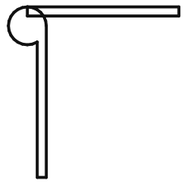
4 / 06 **ITEM 4 CABLE TAB FLAT - 4 OFF**

SCALE 1:1



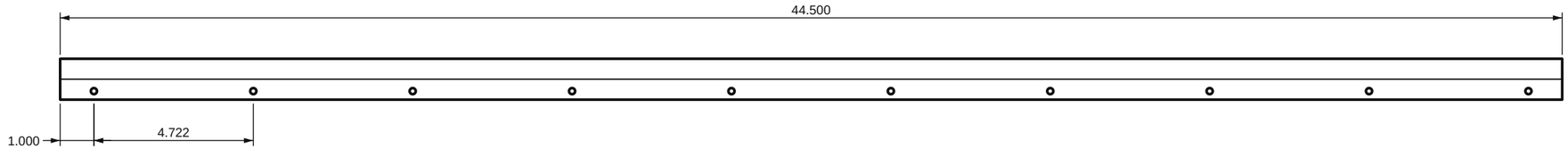
4 / 06 **ITEM 4 FORMED**

SCALE 1:1



5 / 06 **ITEM 5 END VIEW, CLOSED**

SCALE 1:1

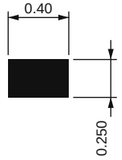


10 HOLES Ø0.191 IN THE BOX LEAF, 0.500 FROM THE PIN. DOOR LEAF PLAIN, WELDED (W4)

5 / 06 **ITEM 5 CONTINUOUS HINGE, CUT, BOX LEAF DRILLED (OPENED FLAT)**

SCALE 1:4

COMPRESSED: 0.250 ON THE LUGS, 0.375 BETWEEN



6 / 06 **ITEM 6 SEAL SECTION**

SCALE 1:1

BOUGHT PARTS

ITEM	WHAT	SPECIFICATION
5	CONTINUOUS HINGE, 1 PIECE 44.50	2.0 OPEN, 0.060 LEAF, KNUCKLE 0.25, WELDABLE ALUMINIUM (6063 OR 3003)
6	SEAL, 120.0 IN, ONE PIECE	1/2 SPONGE EPDM D-BULB, ADHESIVE OR CLIP FOOT
7	LATCH, 2 OFF	TCH 500-51111805 OR EQUAL, LOCKING, GRIP 1.32-1.75
8	CABLE, 2 OFF, 26.0 EYE TO EYE	1/8 GALV. OR SS, PLASTIC COATED, EYES FOR 1/4 BOLT
9	BLIND RIVETS, 18 OFF	3/16 ALUMINIUM, DOME HEAD, HOLE Ø0.191. GRIP OVER THE LUGS: HINGE 0.248, TABS 0.313
-	BOLTS FOR CABLES, 4 OFF	1/4-20 x 3/4 SS WITH NYLOC NUT AND 2 WASHERS

NOTES

1. LATCH: CUT-OUT AND STUD HOLES TO THE MAKER'S TEMPLATE (DETAIL H, SHEET 05). STUDS 1/4-20 THROUGH THE DOOR, NUTS INSIDE.
2. SET THE PAWL SO IT CATCHES BEHIND THE TOP STOP 0.40 AND PULLS THE DOOR ONTO THE SEAL.
3. CABLES: TAB ON EACH END PANEL 10.00 BACK, TAB ON THE DOOR NEAR EACH TOP CORNER. OPEN, EACH CABLE CROSSES THE OPENING 0.51 INSIDE THE STOP.
4. MODEL CHECK, ITEM 4: MID-PLANE AREA OF THE FLAT 1.65 SQ IN = SOLID VOLUME / T 1.65 (DIFF 0.079 %).

SAMPLE
NOT FOR CONSTRUCTION

UNITS	**INCHES**
SHEET	AL TREAD 5052 0.125 + LUGS
TABS	AL 5052-H32 0.125
BEND RADIUS	0.188 INSIDE TYP.
K-FACTOR	0.445 (NOTE 3)
LATCH	TCH 500-51111805 OR EQUAL
FINISH	MILL

REV	DATE	DESCRIPTION	INITIAL
A	13 Nov 2026	ISSUED FOR REVIEW (SAMPLE)	RS

DESIGNED	DRAWN	CHECKED
—	RS 13 Nov 2026	RS 13 Nov 2026

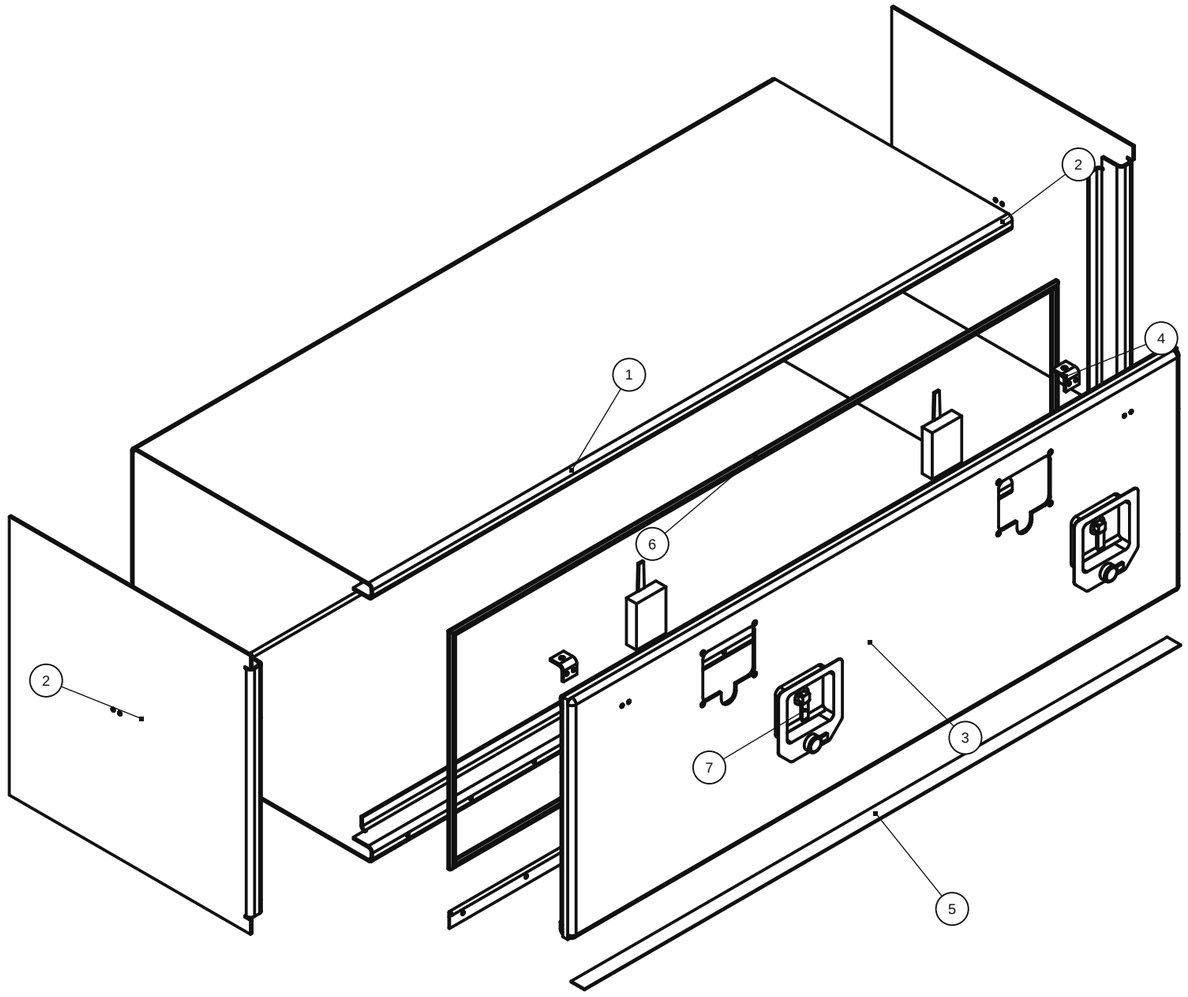
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ORIGINAL SIGNED AND SEALED BY

TITLE
UNDERBODY TRUCK BOX — ITEMS 4 TO 9, SMALL AND BOUGHT PARTS

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RS4001-06 · 6 OF 7 · A



1/07 **EXPLODED VIEW**

SCALE 1:8

RIVET SCHEDULE (ITEM 9)

JOINT	QTY	PITCH
HINGE 5 BOX LEAF TO THE SILL BAND (ON THE LUGS)	10	4.72
CABLE TABS 4 TO THE END PANELS	4	0.50
CABLE TABS 4 TO THE DOOR	4	0.50

WELD SCHEDULE

MARK	WELD
W1	END PANELS 2 TO WRAP 1: CONTINUOUS FILLET ON THE OUTSIDE CORNERS, TOP, BACK AND BOTTOM.
W2	FRAME CORNERS, 4: END PANEL BAND AND JAMB TO THE WRAP BAND AND JAMB, BUTT, GROUND FLUSH; CLOSE THE RELIEF GAPS.
W3	DOOR CORNERS, 4: FACE CORNER AND RETURN CORNER, DRESSED TO THE BEND RADIUS.
W4	HINGE 5 DOOR LEAF TO THE DOOR'S BOTTOM RETURN: 1.0 STITCH FILLETS ON THE LEAF'S BACK EDGE EVERY 4.0 AND AT EACH END. THE LEAF SITS ON THE RETURN'S LUGS. NOTHING MAY STAND BELOW IT: 0.065 TO THE SILL LUGS.
-	GMAW WITH 5356 WIRE. CLEAN THE OXIDE FIRST. SIZE BY THE WELDER TO SUIT 0.125.

ASSEMBLY SEQUENCE

1. CUT AND BEND 1-4 (SHEETS 03-06). CHECK EACH AGAINST ITS FORMED VIEW.
2. RIVET THE BOX CABLE TABS 4 TO THE END PANELS 2.
3. FIT THE END PANELS TO THE WRAP: SQUARE, FRONT BANDS FLUSH, STOP FLANGES IN ONE PLANE. WELD W1, THEN W2.
4. DOOR 3: WELD W3; FIT THE LATCHES 7; RIVET THE DOOR CABLE TABS 4.
5. WELD HINGE 5'S DOOR LEAF UNDER THE DOOR'S BOTTOM RETURN (W4), THEN RIVET THE BOX LEAF TO THE SILL BAND; CHECK THE EVEN GAP ROUND THE DOOR.
6. FIT SEAL 6 ON THE STOP FACES IN ONE PIECE, JOINT AT THE BOTTOM CENTRE; FIT CABLES 8.
7. CHECK: LATCHES PULL THE DOOR ONTO THE SEAL; NO DAYLIGHT WITH A LAMP INSIDE.

SAMPLE
NOT FOR CONSTRUCTION

UNITS	**INCHES**
SHEET	AL TREAD 5052 0.125 + LUGS
TABS	AL 5052-H32 0.125
BEND RADIUS	0.188 INSIDE TYP.
K-FACTOR	0.445 (NOTE 3)
LATCH	TCH 500-51111805 OR EQUAL
FINISH	MILL

REV	DATE	DESCRIPTION	INITIAL
A	13 Nov 2026	ISSUED FOR REVIEW (SAMPLE)	RS

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UNDERBODY TRUCK BOX — ASSEMBLY, RIVETS AND WELDS

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RS4001-07 · 7 OF 7 · A

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