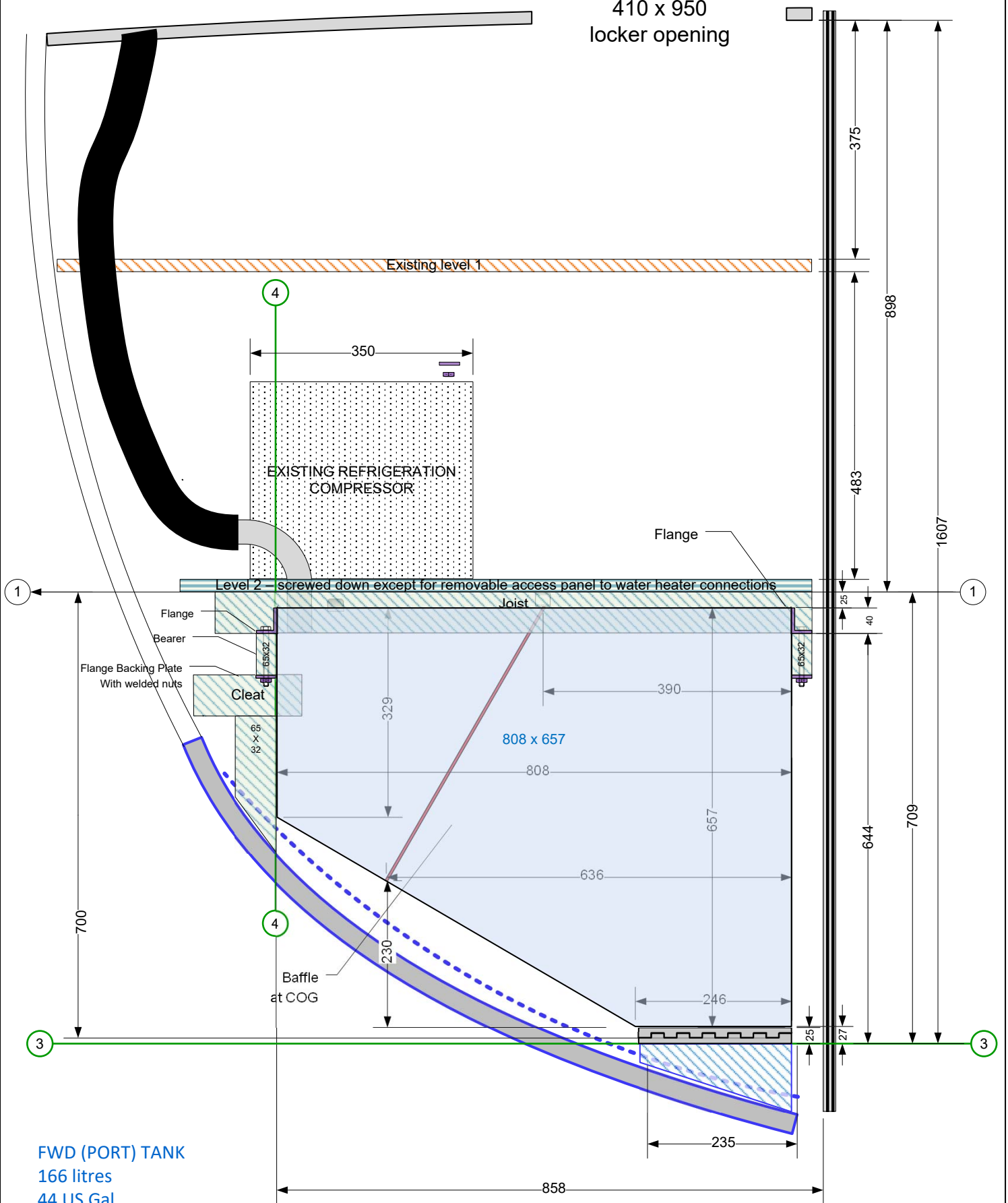


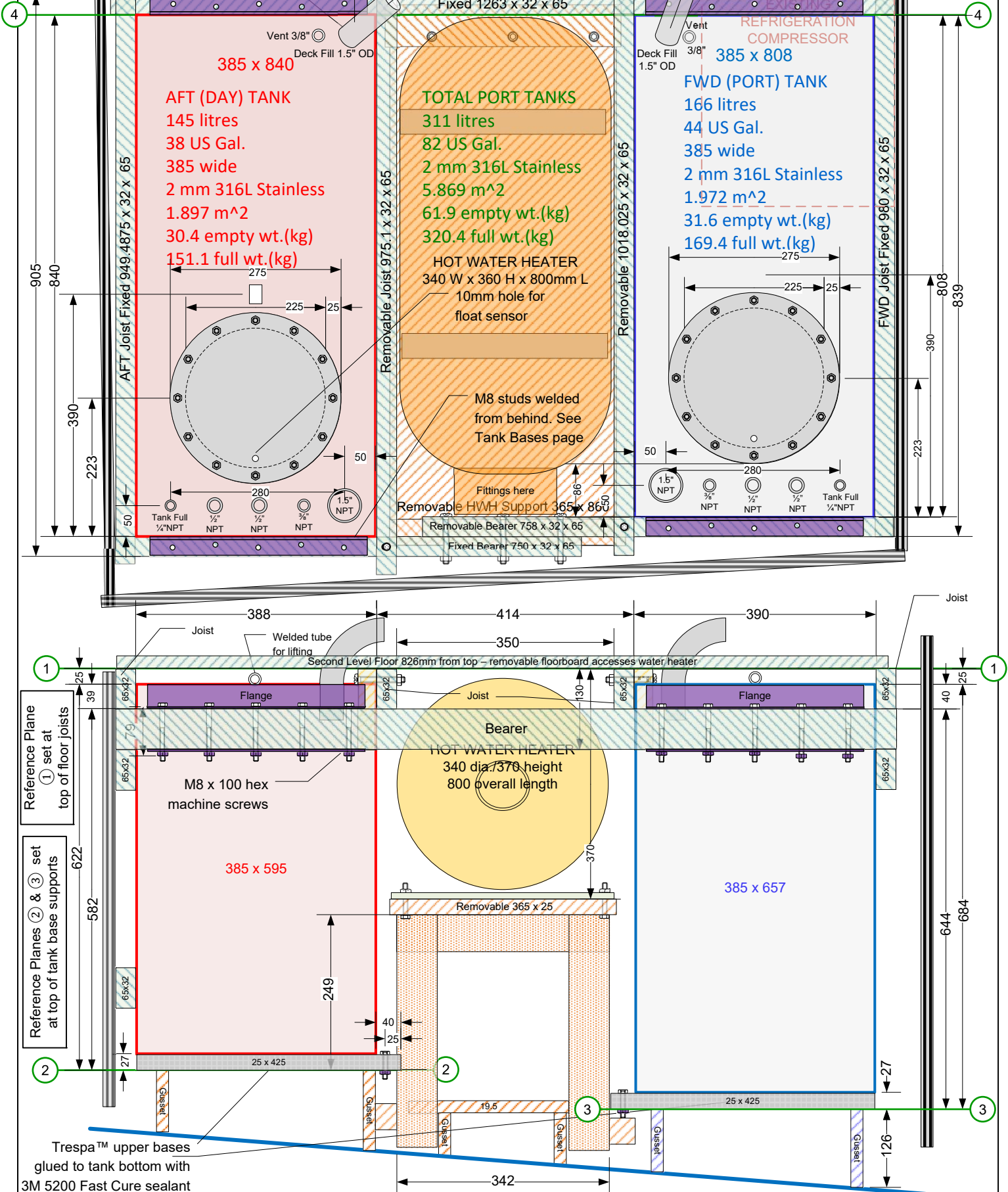
410 x 950
locker opening

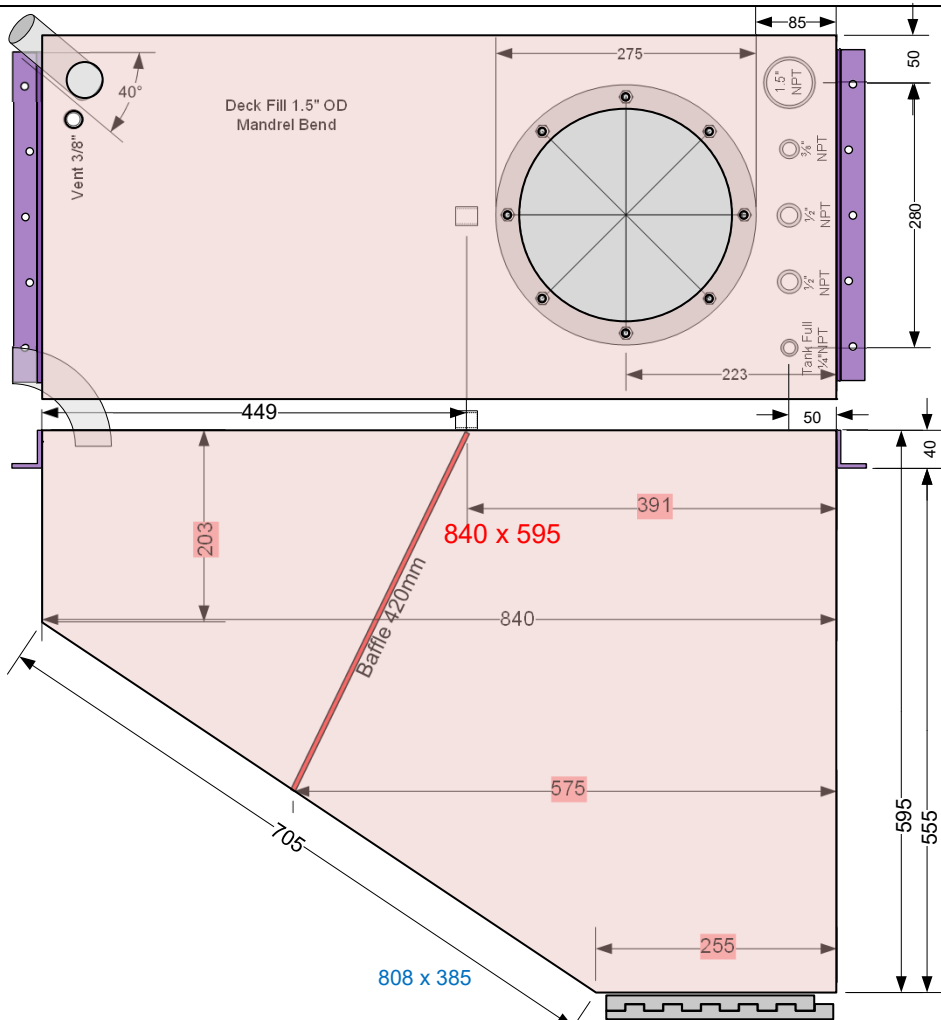


FWD (PORT) TANK
166 litres
44 US Gal.
385 wide
2 mm 316L Stainless
1.972 m²
31.6 empty wt.(kg)
169.4 full wt.(kg)

3/8" NPT 316 Stainless Steel Half Coupling Pipe Thread Weld Bung
 1.5" NPT 316 Stainless Steel Half Coupling Pipe Thread Weld Bung

Must fit 400 x 940
 cockpit locker opening





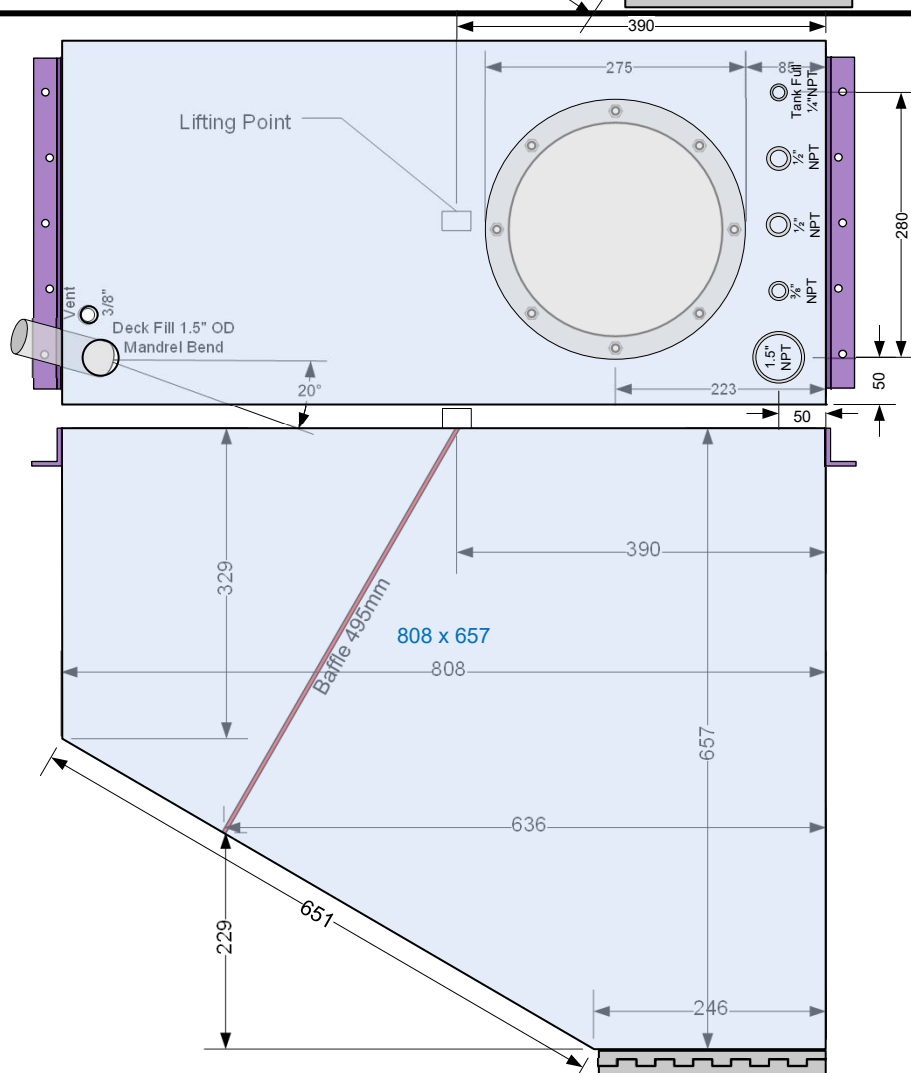
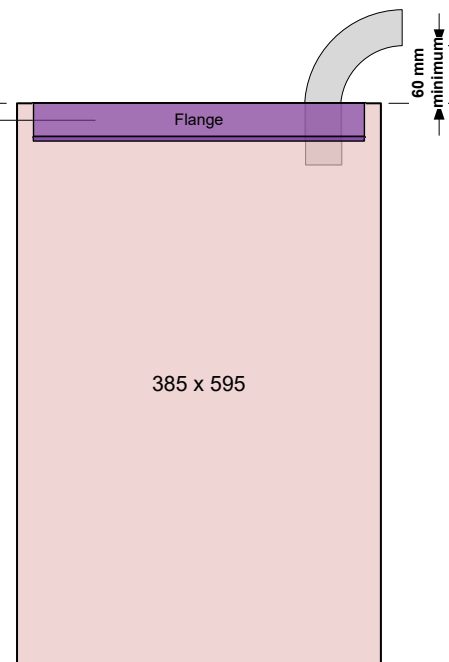
Fittings are all NPT

AFT (DAY) TANK

145 litres

38 US Gal.

Flange Backing Plate 25 x 390 x 2mm (qty 4)



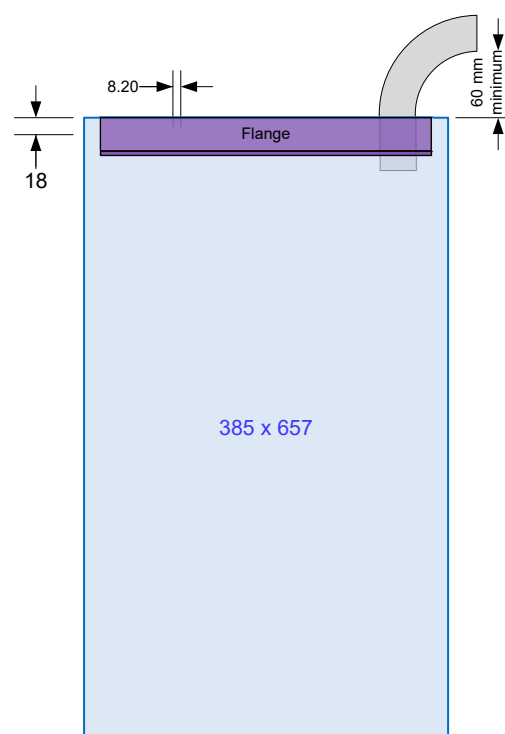
FWD (PORT) TANK

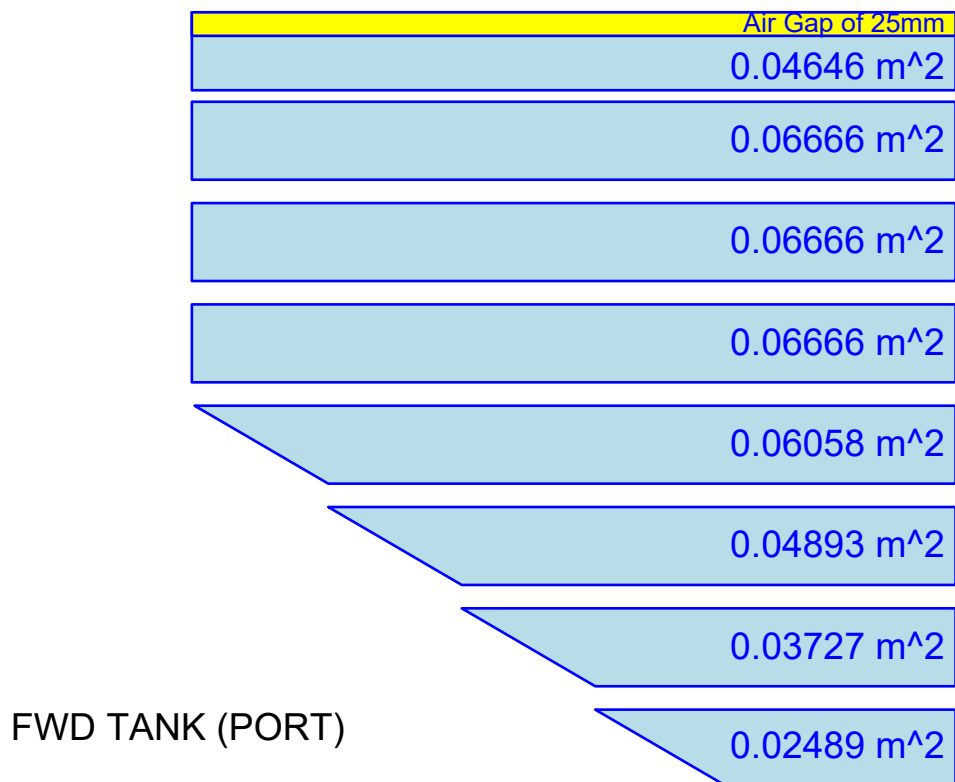
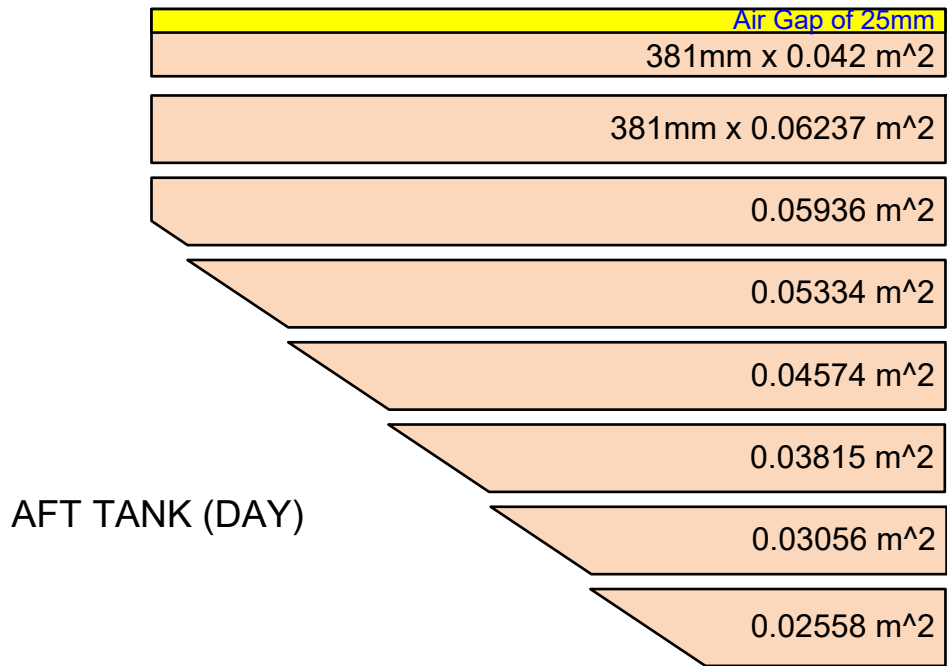
166 litres

44 US Gal.

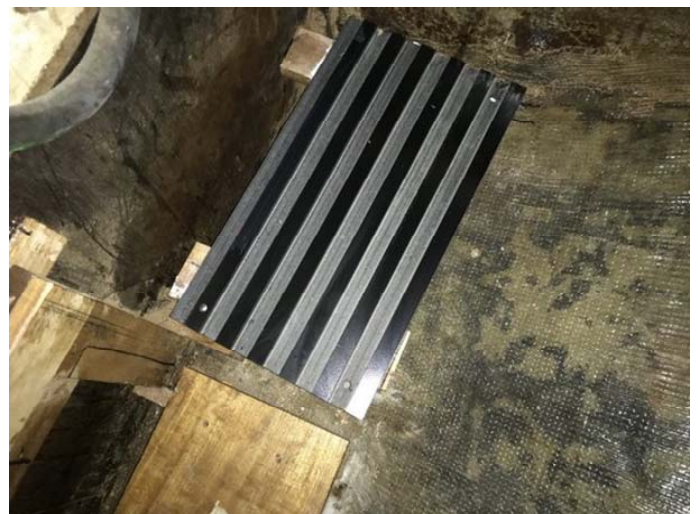
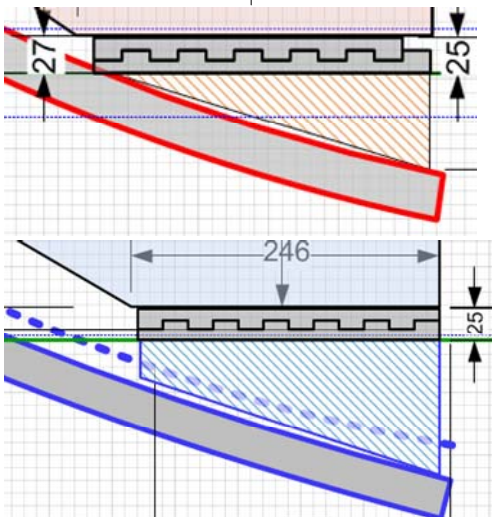
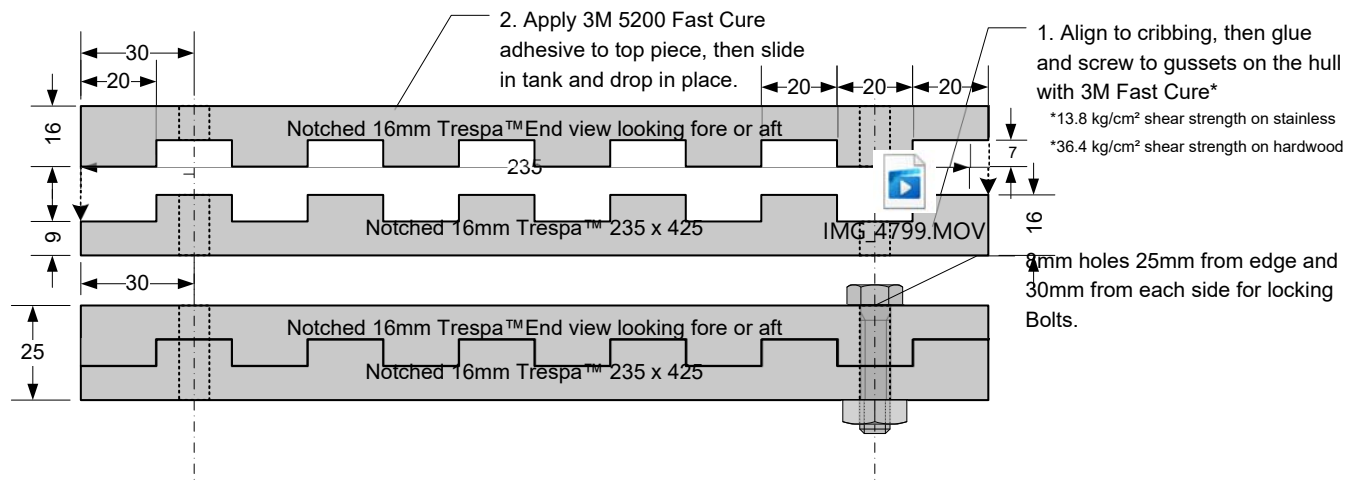
Fittings are all NPT

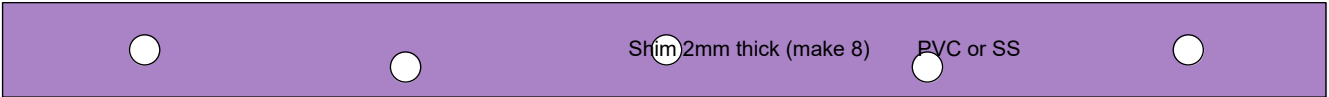
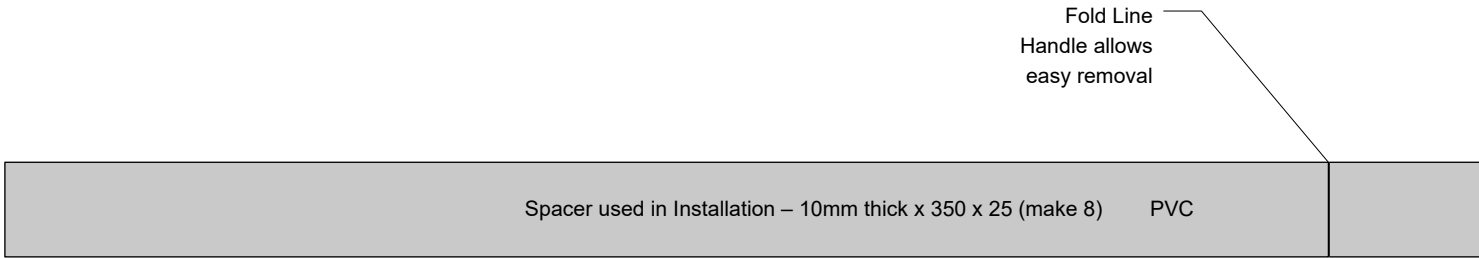
Dimensions are External



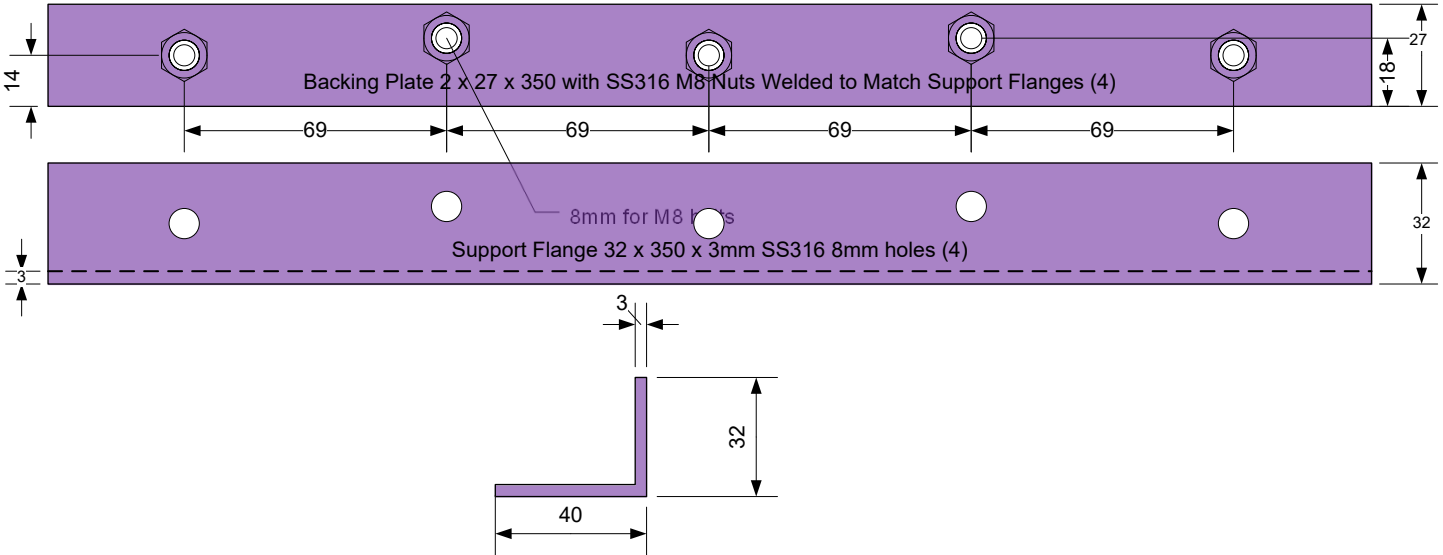


For the base of each tank, make interlocking dados (slots) in two pieces of 16mm Trespa™. One piece is attached to the hull, the other glued to the base of the tank.





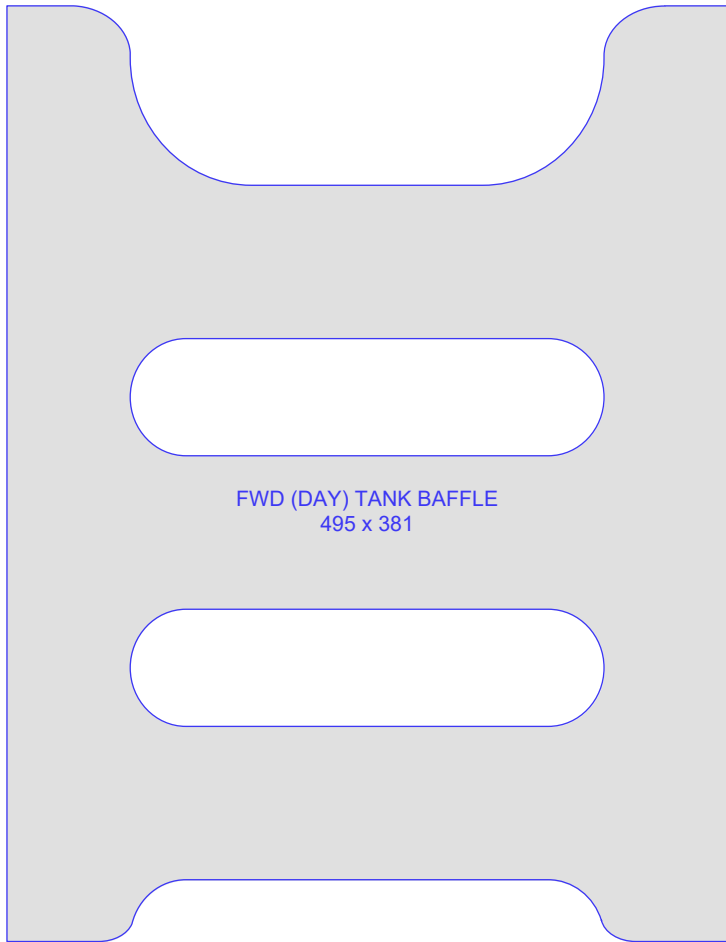
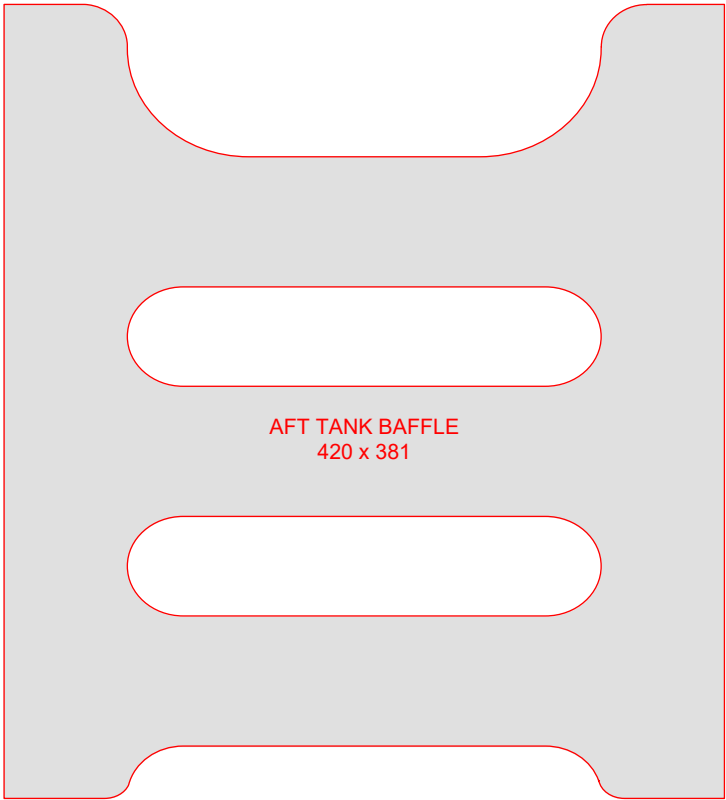
Flanges are welded to the tanks.
Material: Folded 2mm or 3mm 316 stainless.
Can be gusseted for strength if necessary.
Four flanges and four backing plates are required.

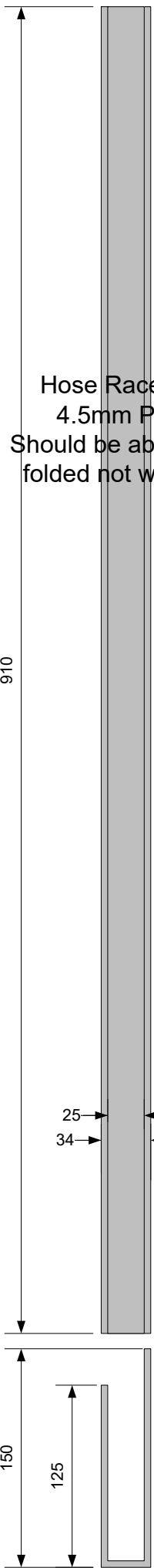


BAFFLES

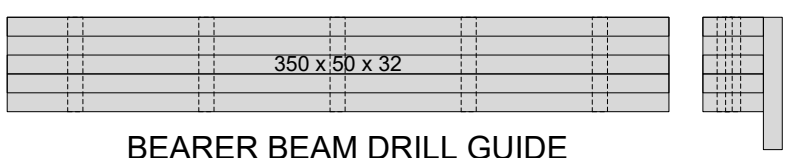
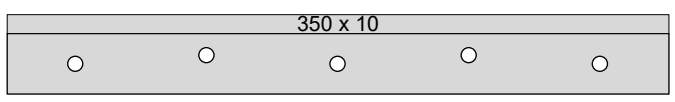
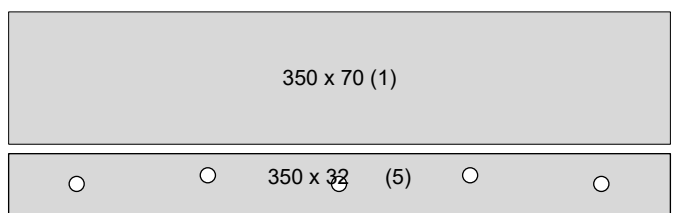
- they introduce immense rigidity to the design of the tank
- they limit the dynamic movement of contents, minimizing the destructive pounding forces against the tank body. 300mm or narrower needs no baffles.

Construct one baffle side to side on each tank, mainly for rigidity.
Dimensions shown are 4mm less than finished tank width.



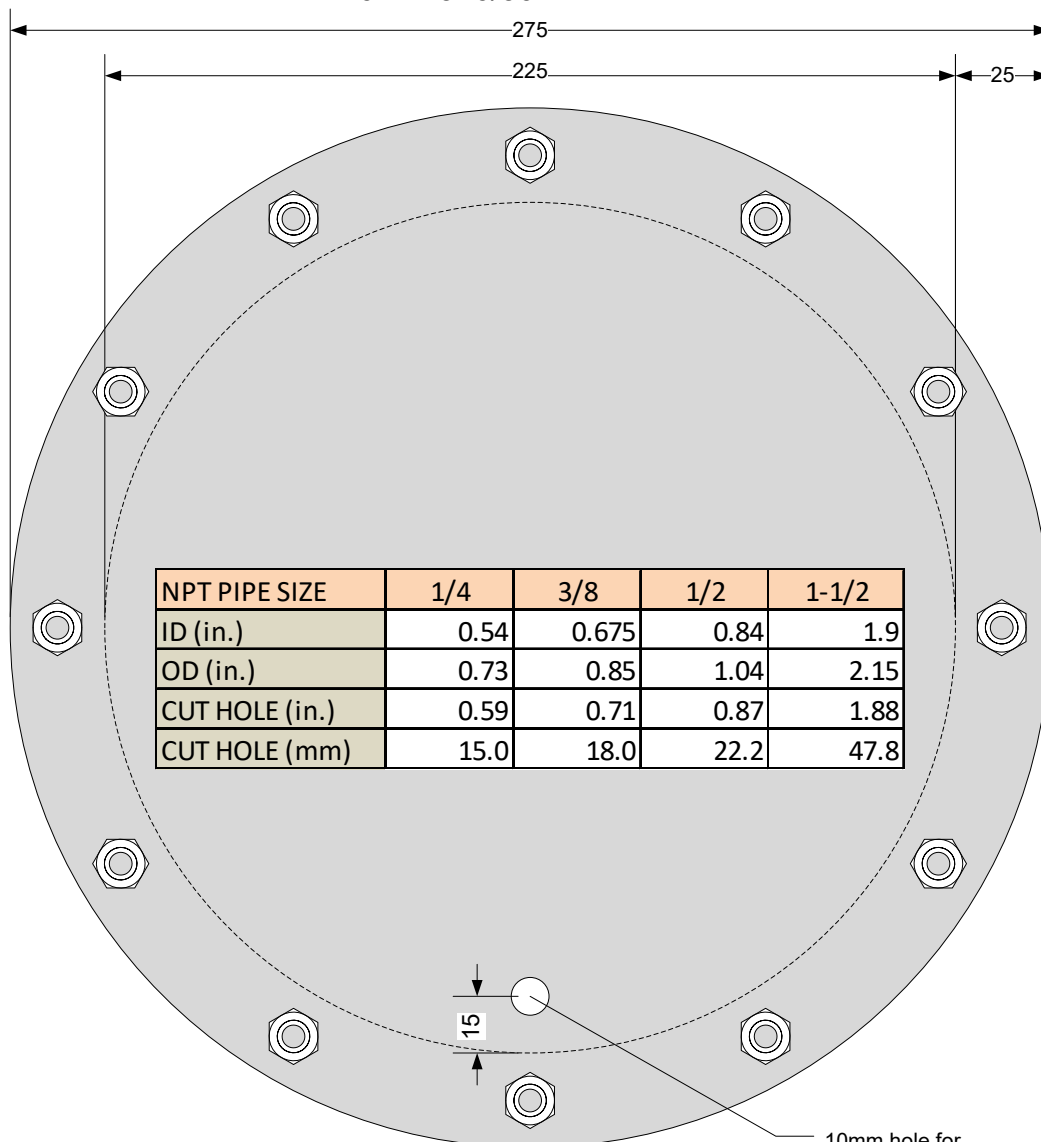


Hose Raceway
4.5mm PVC
Should be able to be
folded not welded.

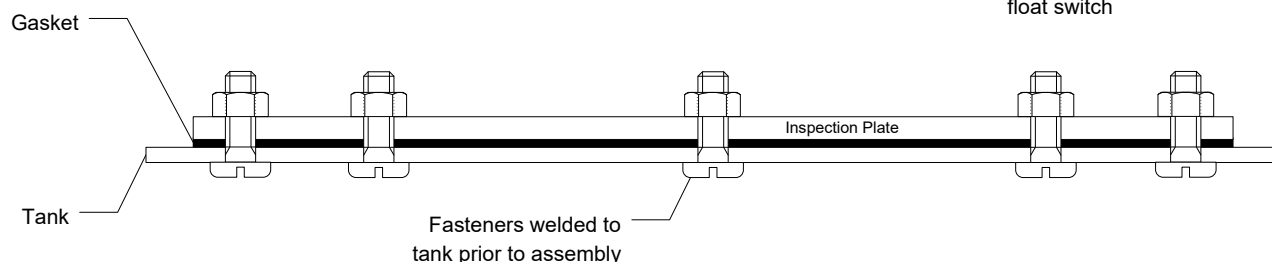


BEARER BEAM DRILL GUIDE
Make out of 5 pieces of 10mm PVC glued together.
Holes are 8mm
Edge guide is one piece 35 x 70

Inspection Plate 4-6mm 316/304 Stainless steel



NPT PIPE SIZE	1/4	3/8	1/2	1-1/2
ID (in.)	0.54	0.675	0.84	1.9
OD (in.)	0.73	0.85	1.04	2.15
CUT HOLE (in.)	0.59	0.71	0.87	1.88
CUT HOLE (mm)	15.0	18.0	22.2	47.8

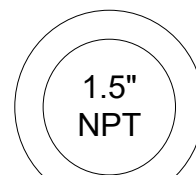


1/4" NPT 316 Stainless Steel Half Coupling Pipe Thread Weld Bung
Length = 0.52" OD = 0.73". Thread Inside Diameter 0.54"

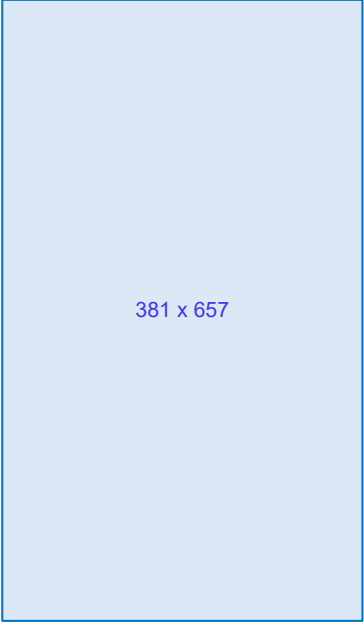
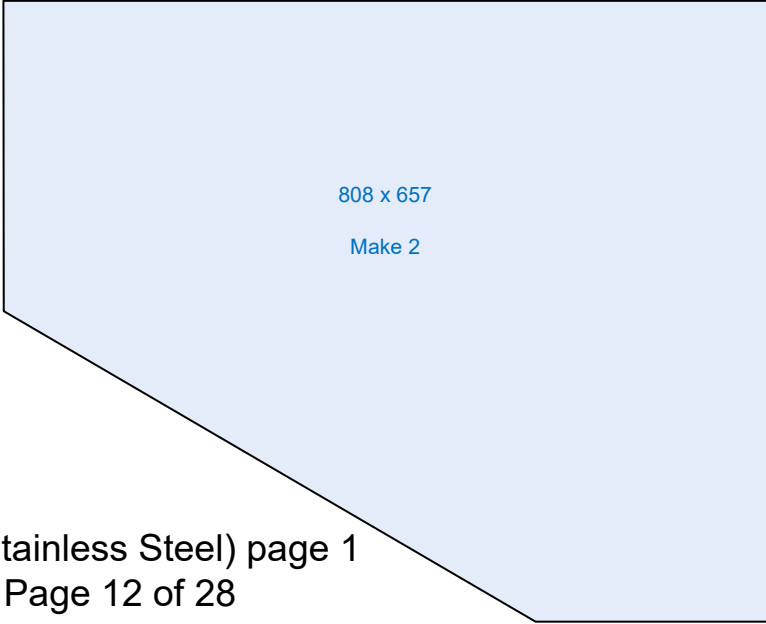
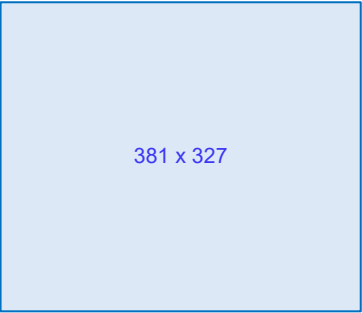
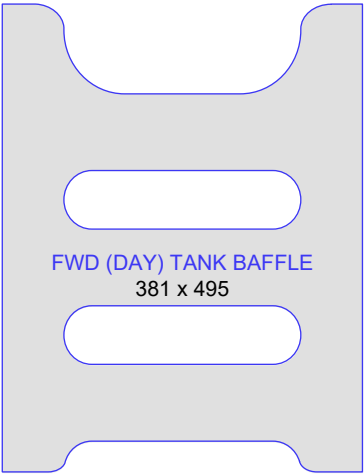
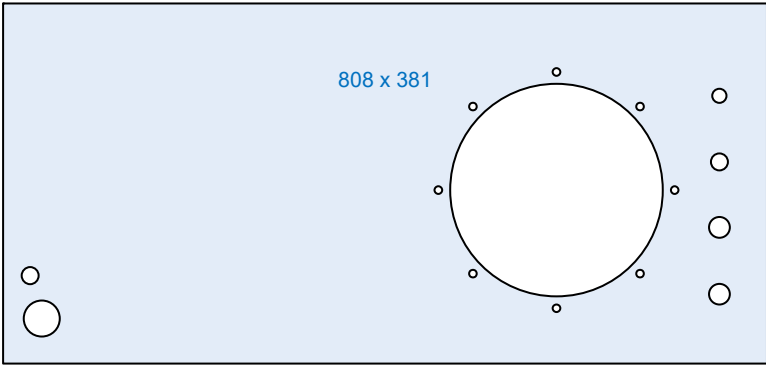
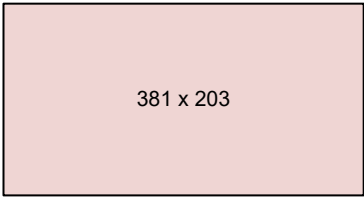
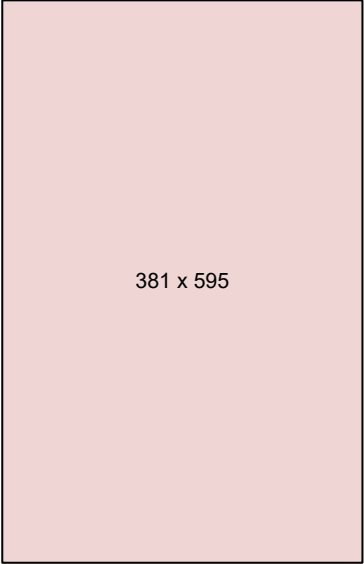
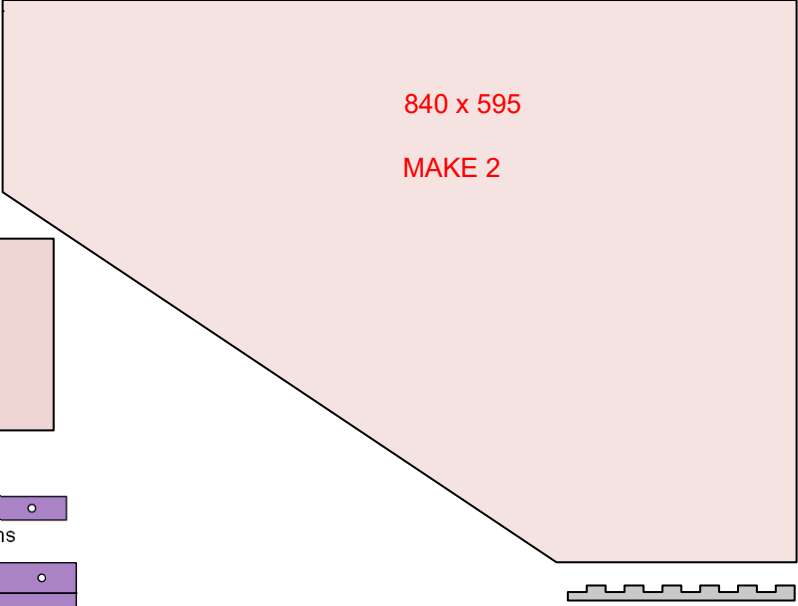
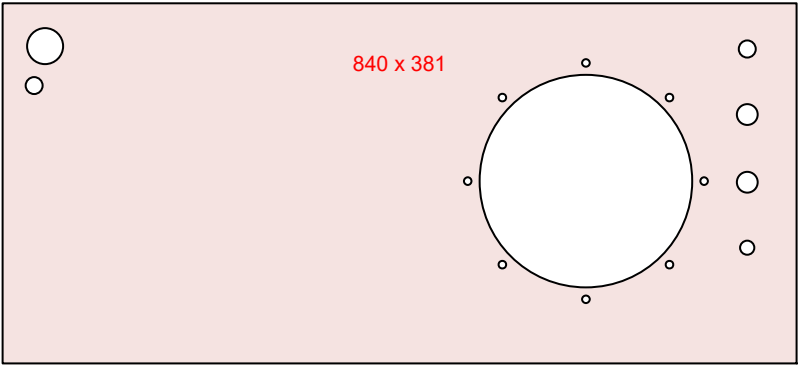
3/8" NPT 316 Stainless Steel Half Coupling Pipe Thread Weld Bung
Length = 0.54" OD = 0.85" with street ell Length = .54" + 1.5" = 52mm
Thread Inside Diameter 0.675"

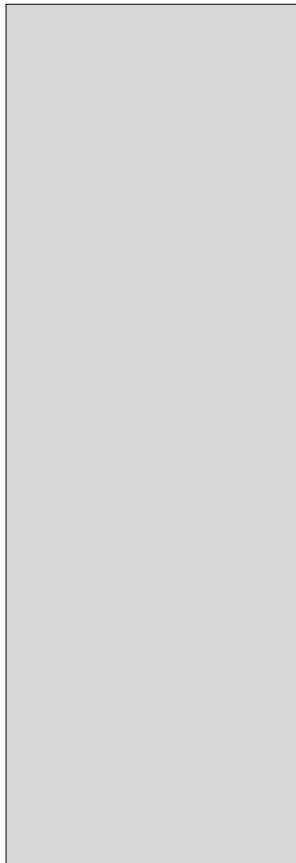
1/2" NPT 316 Stainless Steel Half Coupling Pipe Thread Weld Bung
Length = 0.7" OD = 1.04"
Thread Inside Diameter 0.840"

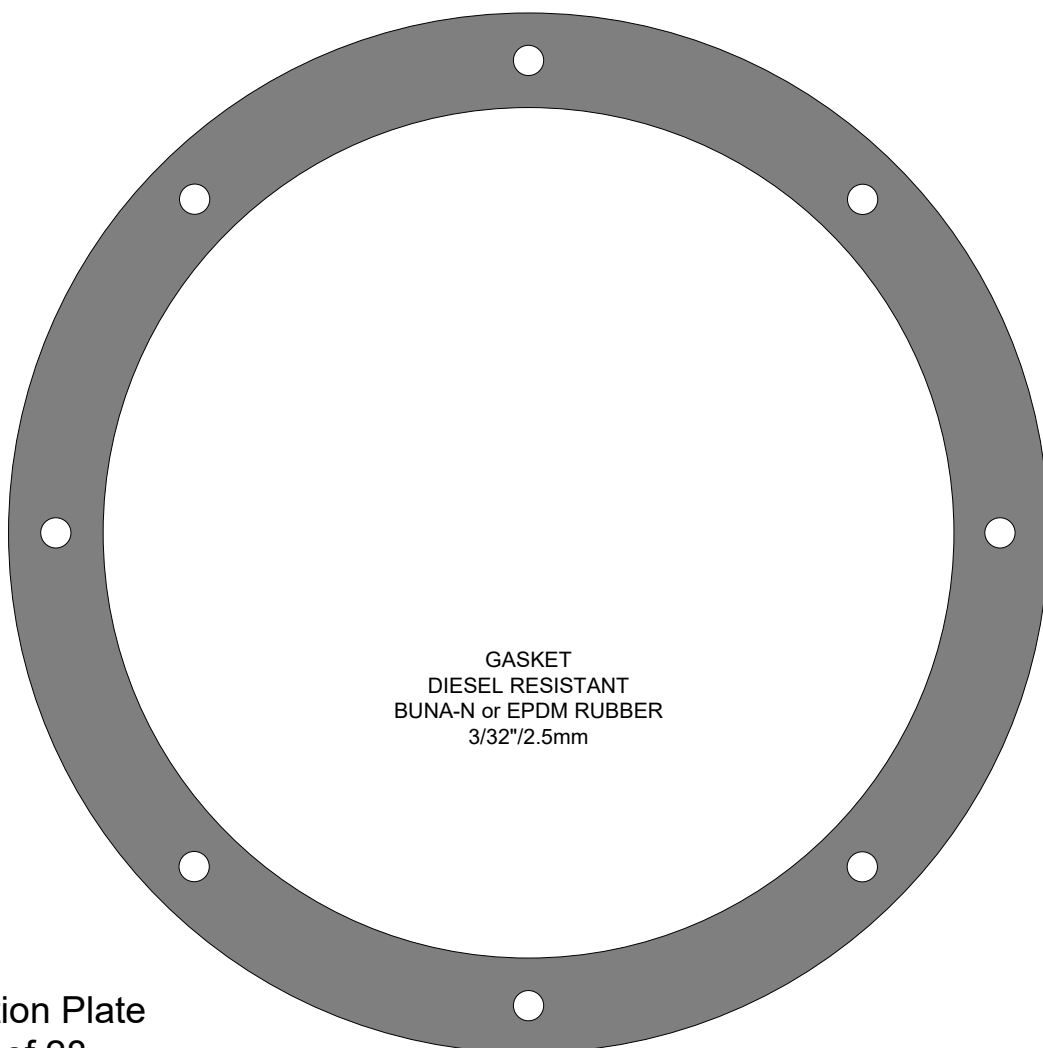
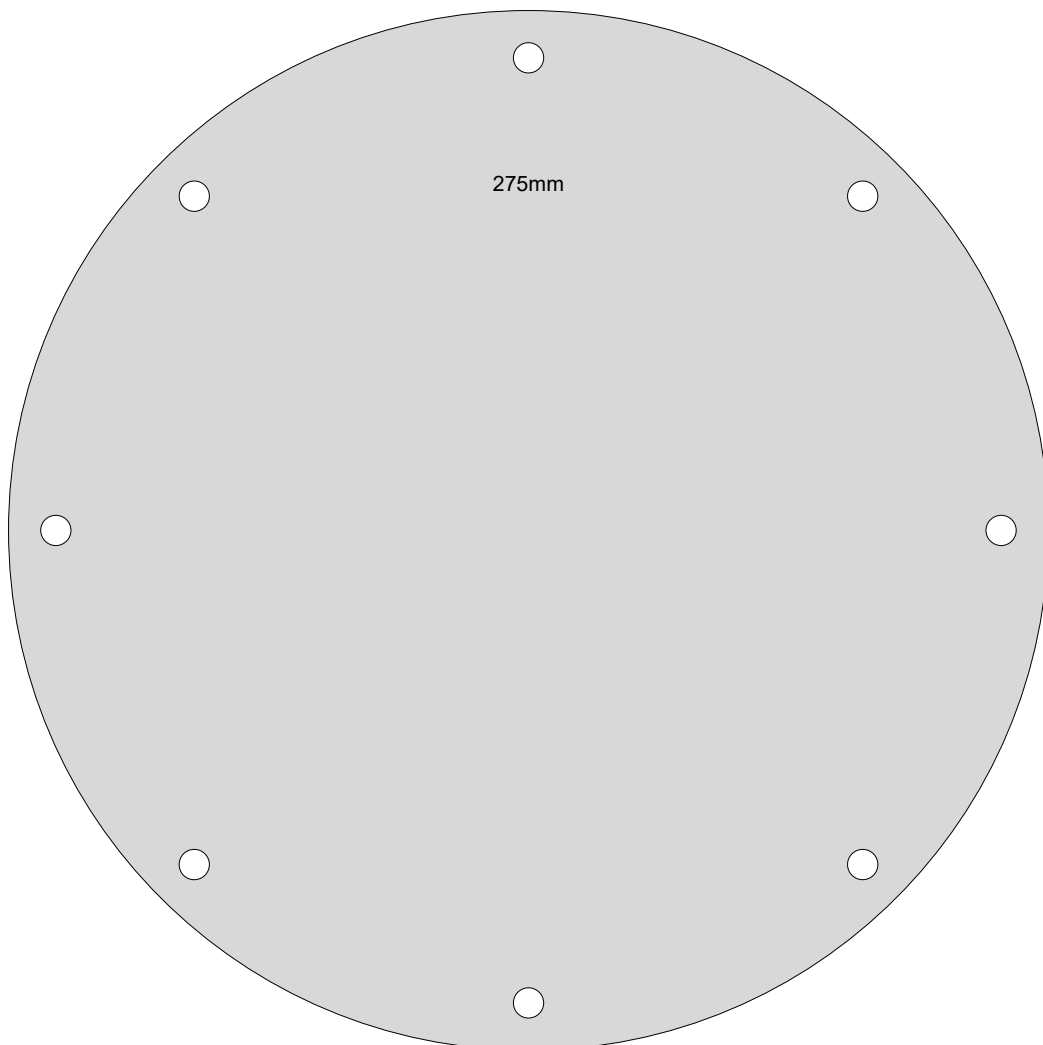
1.5" NPT 316 Stainless Steel Half Coupling Pipe Thread Weld Bung
Length = .96" or 24.8mm' OD = 2.15" or 54.6mm
Thread Inside Diameter 1.900"



Tank Level Sender





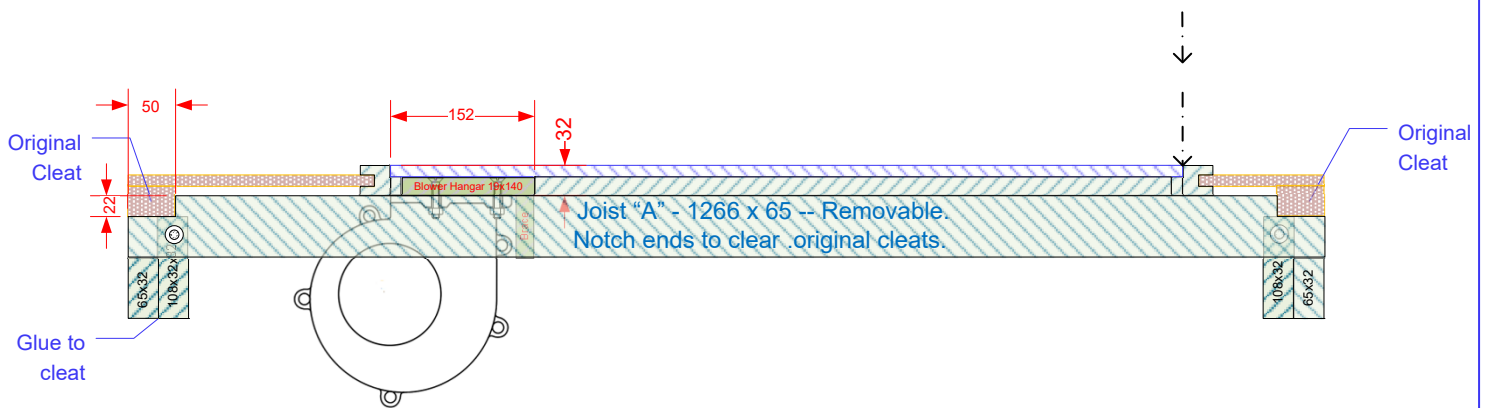
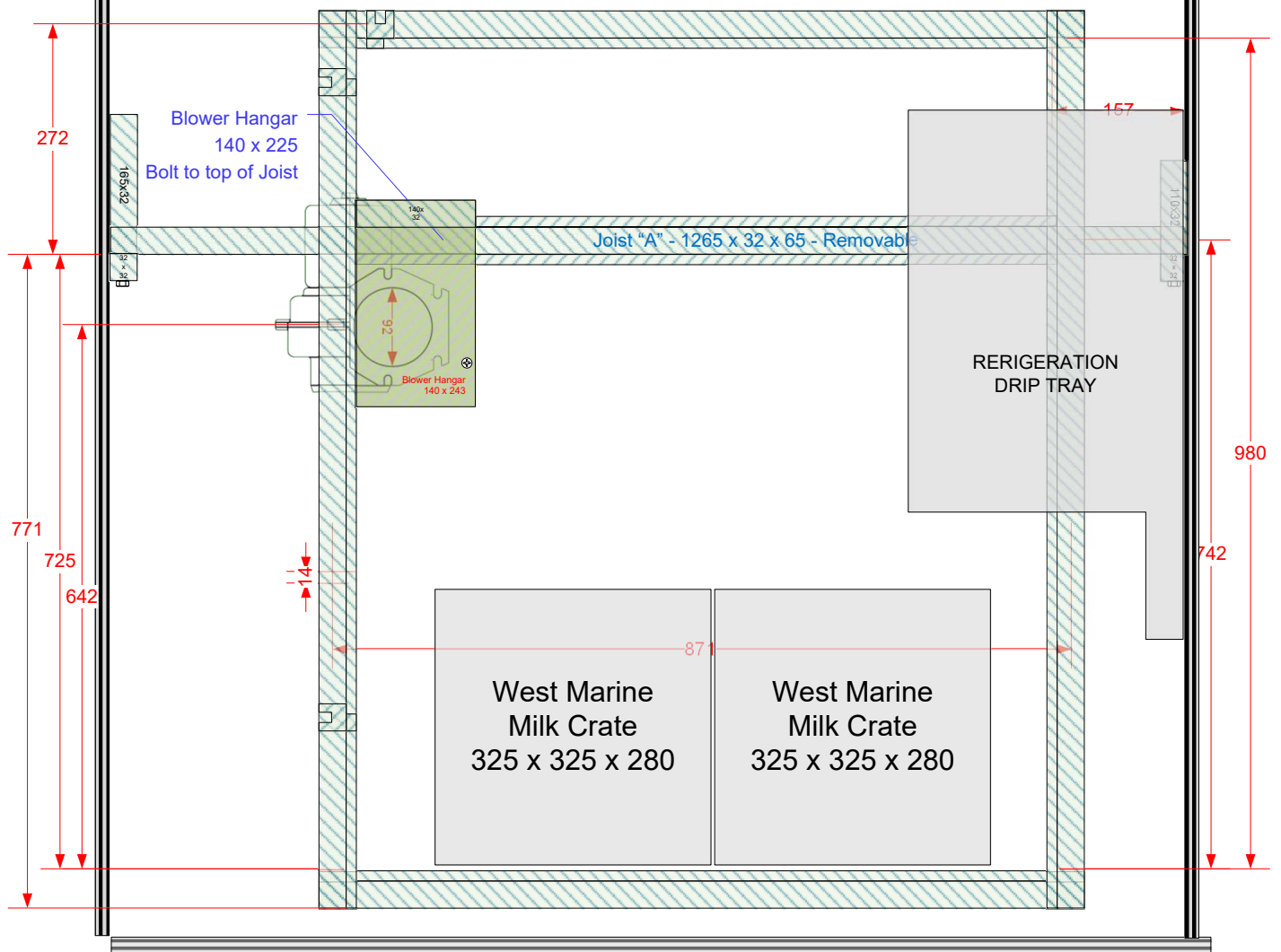


☐ Floorboards Hidden

FWD

AFT

Level 1 to Level 2 vertical
is 483mm

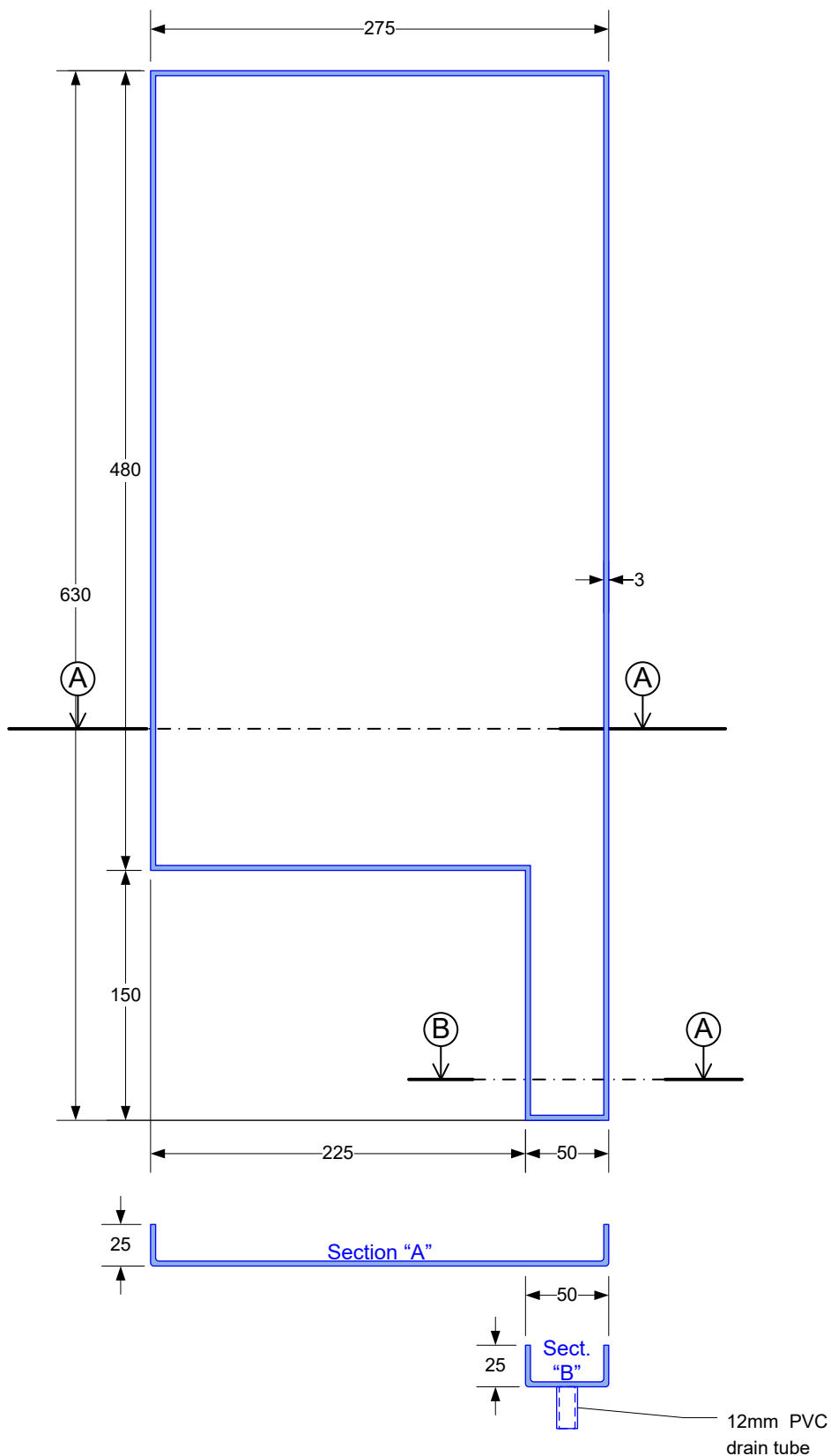


Floor: Marine Plywood 12mm

S/N BEATRIX - KELLY-PETERSON 44
#286 (1980)

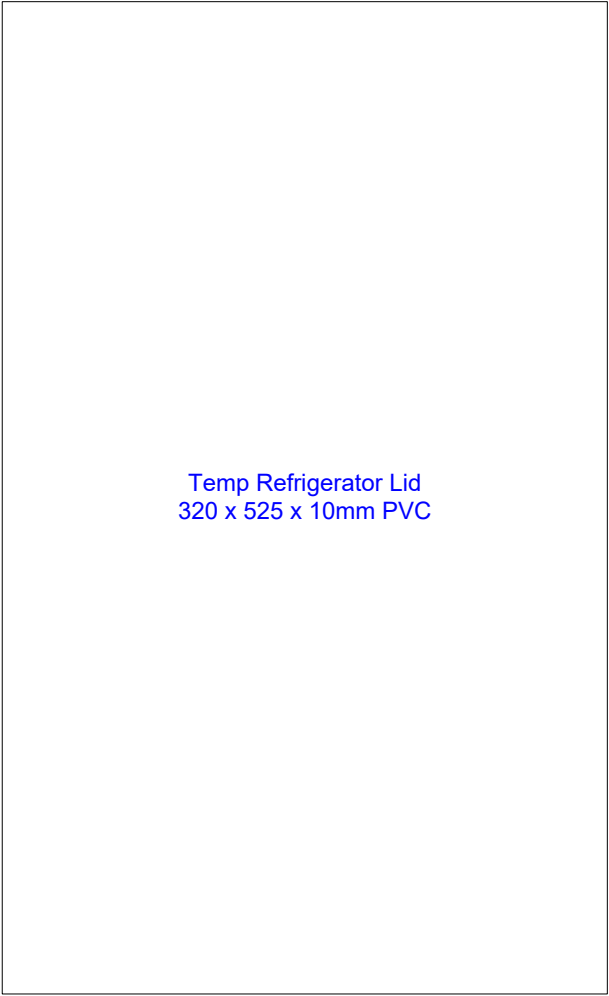
TITLE
Port Diesel Tank Rebuild - Floorboards & Joists Level 1

REV	SCALE	PAGE	UNITS	DATE	DRAWN BY
H	1: 8	15 OF 28	mm	01/03/22	JMS

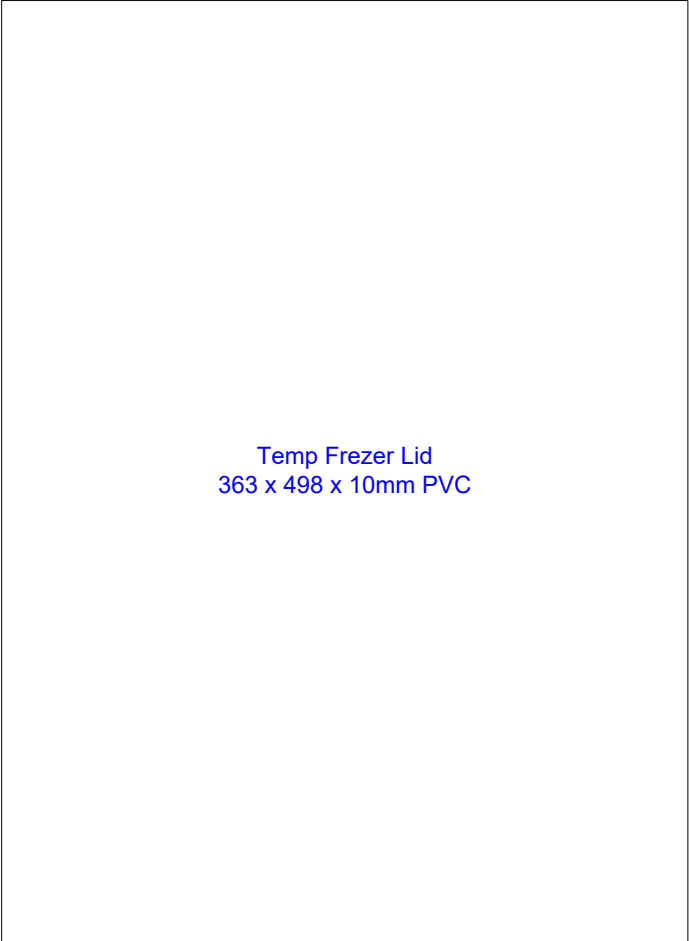




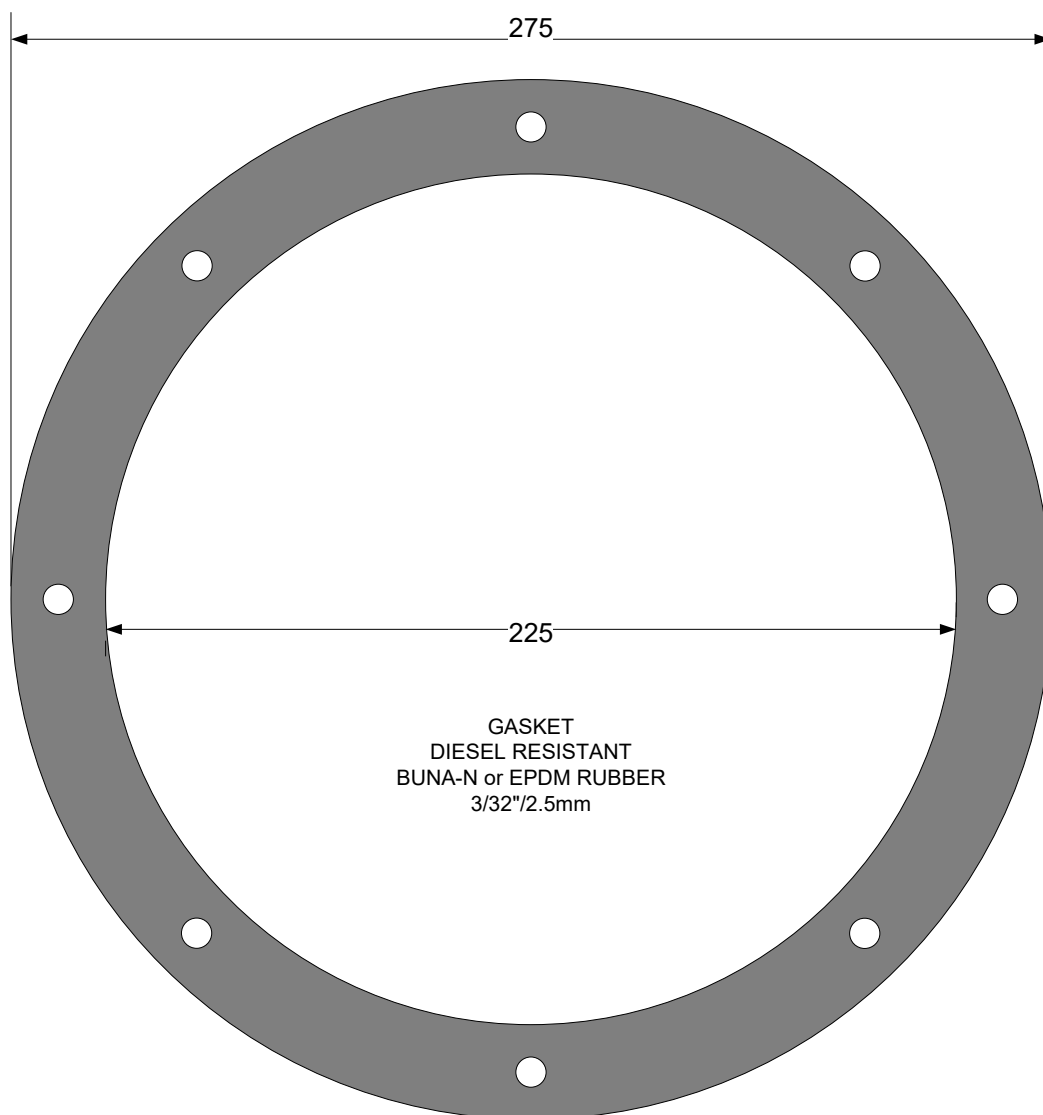
Drip Tray
325 x 655 x 3mm PVC



Temp Refrigerator Lid
320 x 525 x 10mm PVC



Temp Frezer Lid
363 x 498 x 10mm PVC



Tank Level Sensor

S5U Diesel, Fuel or Water Level Sensor
 Material:SUS 316 Stainless Steel
 Length:Available 4" through 60" at 1" increments
 Mounting Methods:NPT 1.5"
 ThreadProtection Rank:IP67Output
 Signal:Standard American 240-33 ohms.
 USD \$53.611 from FISCO (24")



Tank Full Sensor

NC Opens at 0.5 psi
 1/8" NPT



Tank Full Sensor

Liquid Level Float Switch
 on eBay



Moeller Fuel Pick-Up

3/8NPT X1/4NPT
 24" and 36" Aluminium
 033500-36
 Available at FISCO
 USD \$17.10 for 24". Special order for 36"



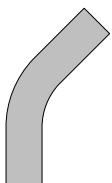
STAINLESS STEEL MALE
 HOSE BARB 90 DEGREE
 ELBOW - 316 SS \$7.63

90 DEG 316 SS Replacement Pickup Tube

MATERIAL: 316 Stainless Steel
 OD Thread = 1/2" NPT Male (1/2" NPT Female Required in Tank)
 ID Thread = NA
 Hose Barb= 5/16"
 Tube ID = .305 +/-
 Minimum Tank Depth = 2"
 Maximum Tank Depth = 30"
 Screen= NO
 Overall Installed Height = 1.25" or less
 USD \$81.17 OUCH! No!

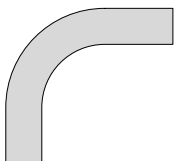


NOTE: Mandrel bends readily available in Aluminium or 316 SS



38mm / 1.5" - 45° Stainless Steel Mandrel Bend (316)

Regular price A\$19.00



38mm / 1.5" - 90° Stainless Steel Mandrel Bend (316)

Regular price A\$23.00

Length : 137mm each side

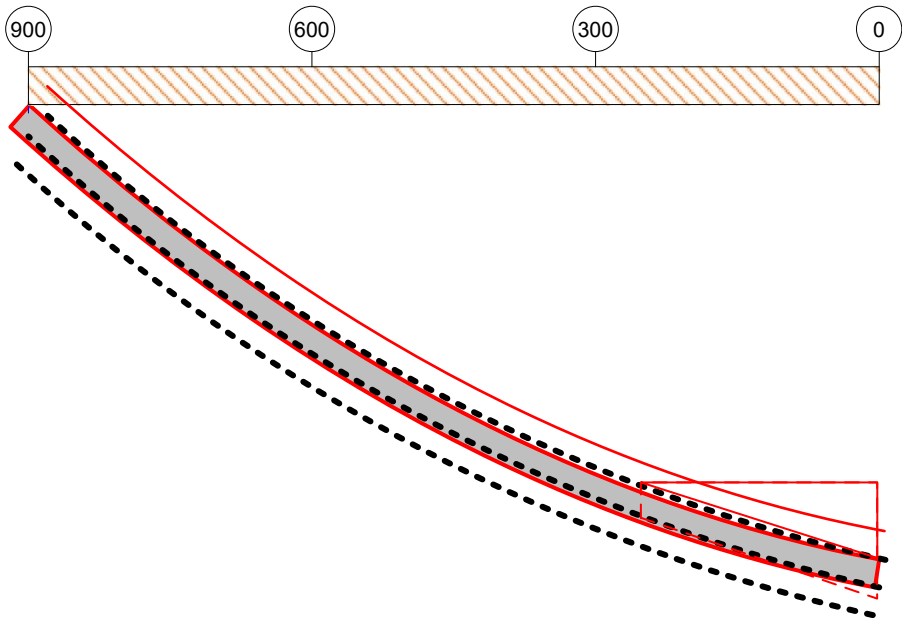
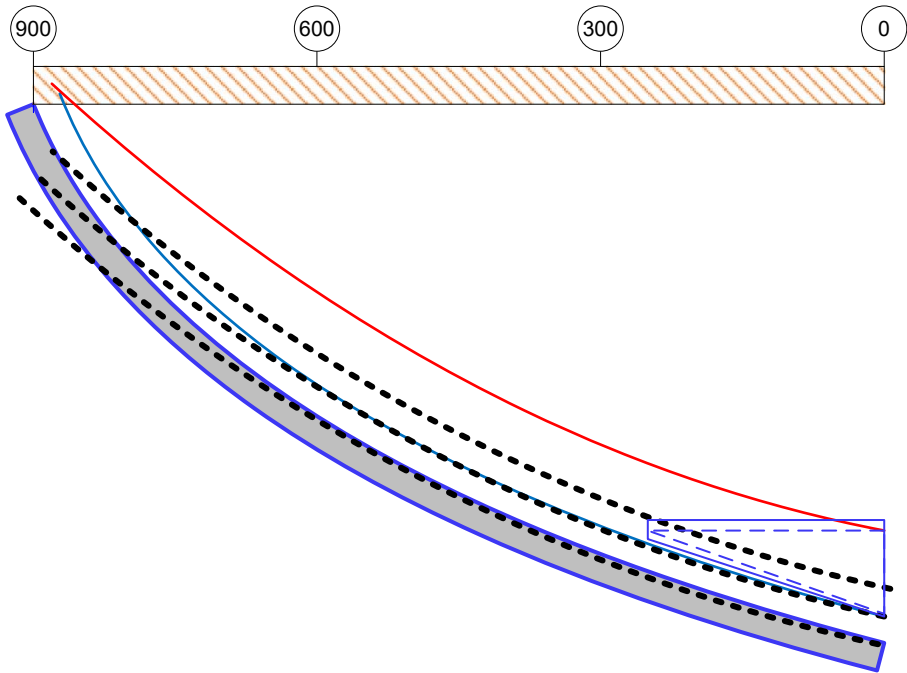
Thickness : 1.6mm

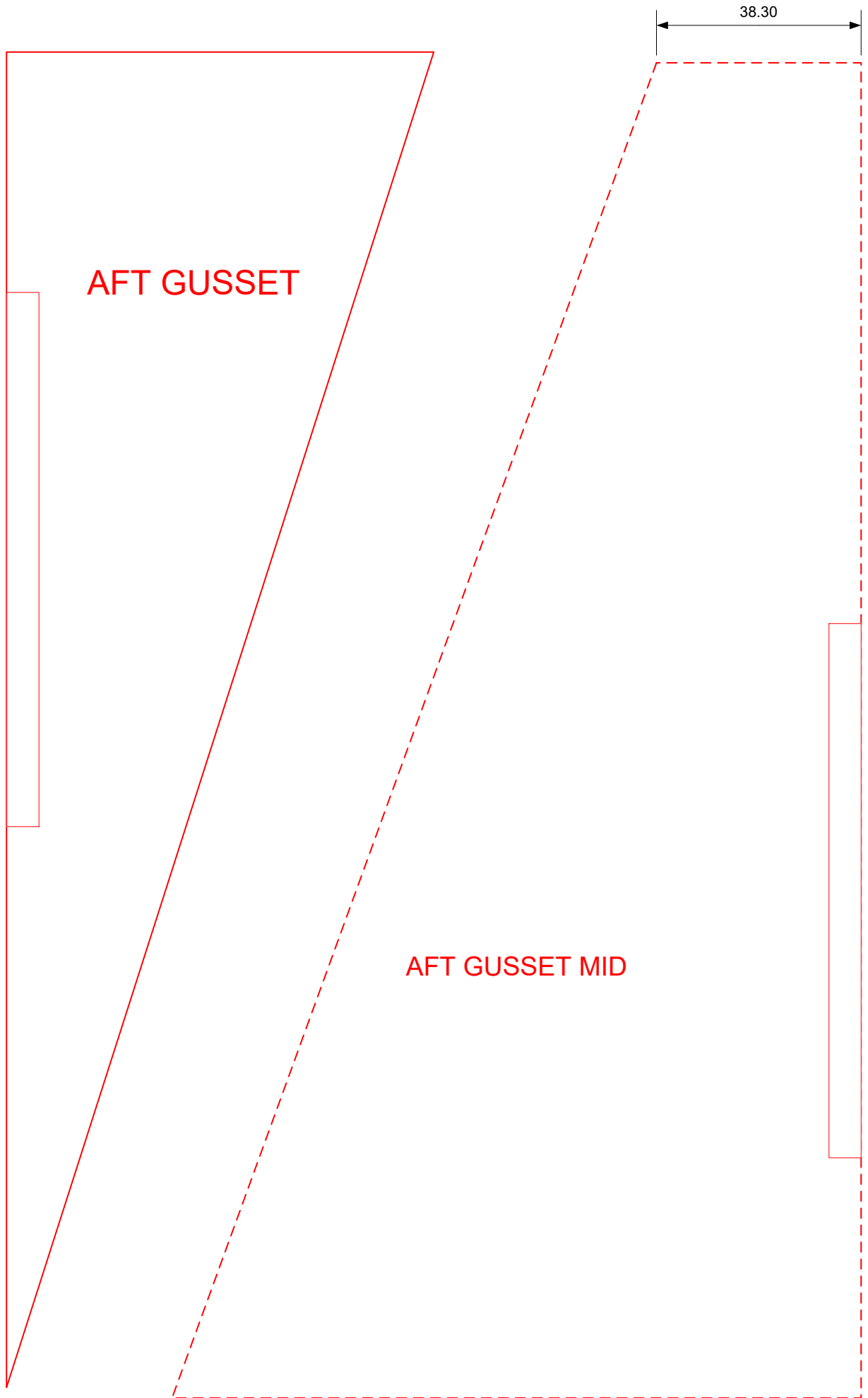
Material : 316 (Stainless steel)

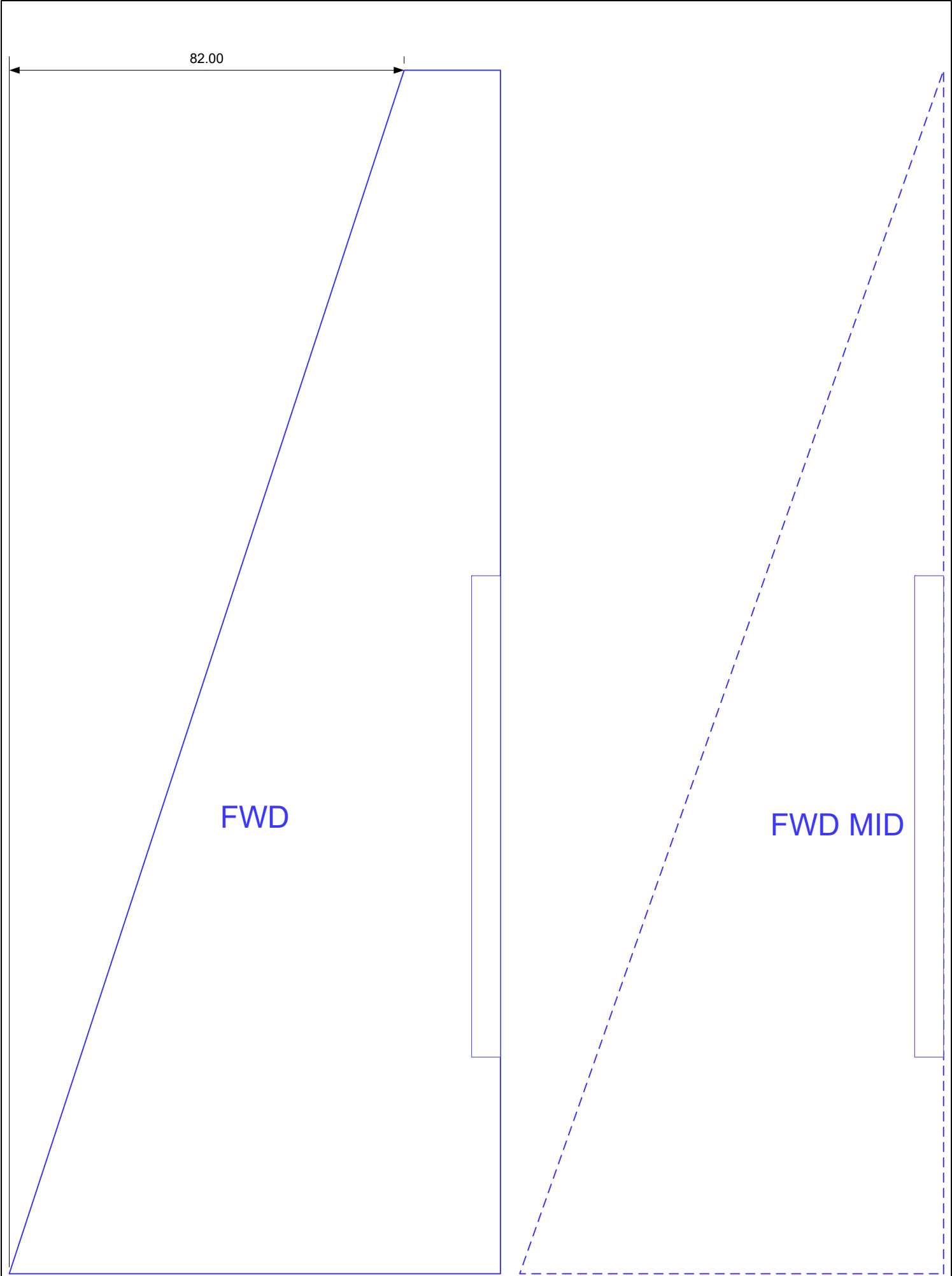
Radius : 1.5D of pipe size

DERIVED TANK GUSSET DIMENSIONS				
	V AFT	V AFT-MID	V FWD-MID	V FWD
HORIZ	0	375	375	0
0	80	115	565	582
250	0	35	0	500

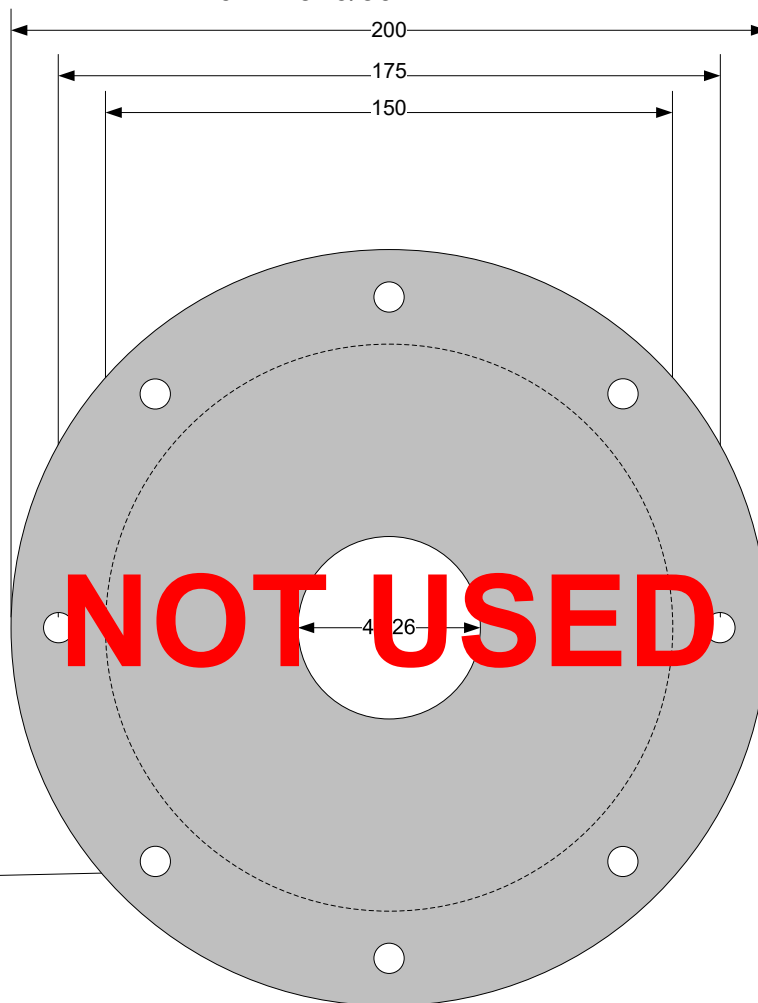
	V AFT	V AFT-MID	V FWD-MID	V FWD
HORIZ	0	375	815	1190
0	480	508	542	570
300	390	417	448	475
600	232	263	299	330
900	0	33	72	105



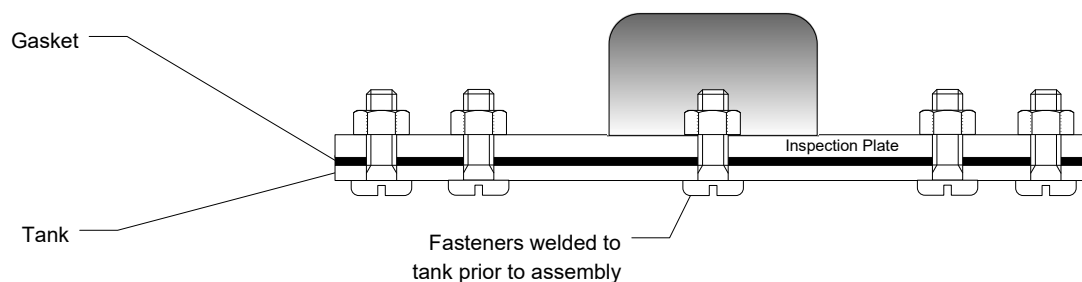




Inspection Plate
4-6mm 316/304 Stainless steel



8mm dia



Gasket

Tank

Fasteners welded to
tank prior to assembly



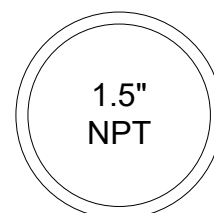
3/8" NPT 316 Stainless Steel Half Coupling Pipe Thread Weld Bung
Length = 0.54 OD = 0.85" with street ell Length = .54" + 1.5" = 52mm
Thread Inside Diameter 0.675"

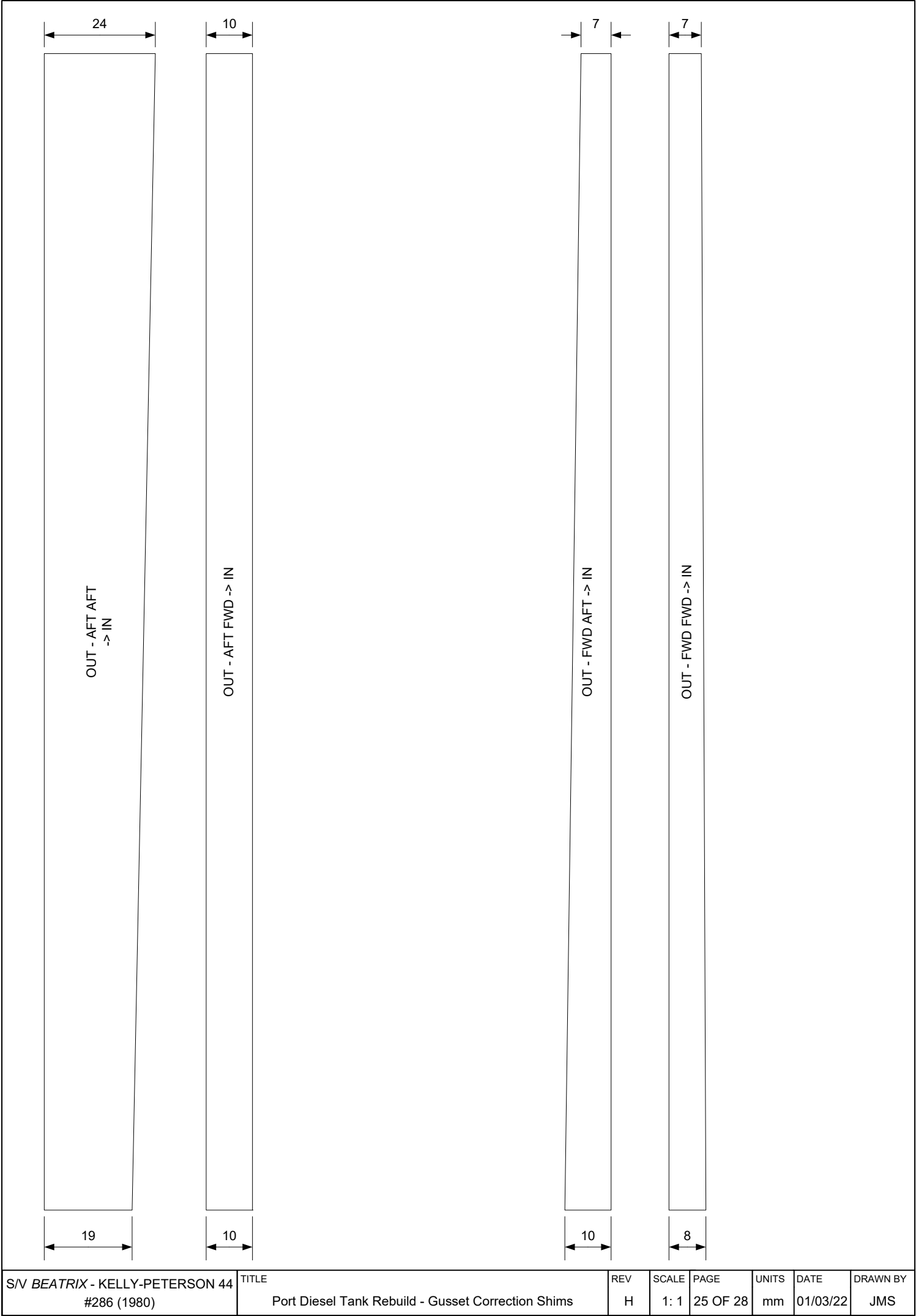


1/2" NPT 316 Stainless Steel Half Coupling Pipe Thread Weld Bung
Length = 0.7" OD = 1.04"
Thread Inside Diameter 0.840"



1.5" NPT 316 Stainless Steel Half Coupling Pipe Thread Weld Bung
Length = .96" or 24.8mm' OD = 2.15" or 54.6mm
Thread Inside Diameter 1.900"





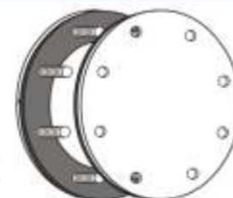
▲ **DO NOT INSTALL THE ACCESS PLATE SYSTEM ON TANKS THAT CONTAIN GASOLINE OR OTHER HIGHLY FLAMMABLE FUELS, LIQUIDS OR GASSES.**

▲ **Make sure all surfaces are clean and dry during installation.**



Tool Checklist:

- | | | |
|---|---|--|
| <input type="checkbox"/> Drill | <input type="checkbox"/> 3/8" drill bit | <input type="checkbox"/> Permanent marker |
| <input type="checkbox"/> Punch | <input type="checkbox"/> 1/4" drillbit | <input type="checkbox"/> Cutting Oil |
| <input type="checkbox"/> 4" diameter hole saw (6" plate) or
6" diameter hole saw (8" plate) or
8" diameter hole saw (10" plate) | <input type="checkbox"/> File | <input type="checkbox"/> Straight Edge |
| | <input type="checkbox"/> Sandpaper | <input type="checkbox"/> Anti-Seize Compound |



PREPARE AND INSTALL BACKING RING / INNER GASKET

A) Press inner gasket over studs on both backing rings. *Do not use gasket compound.*

B) Fold backing rings together, creating a 'C' shape, and slip through the access hole.



TIP: Tie a string to the backing rings to prevent difficult retrieval if they are dropped in. The string can be removed after one of the backing rings is secured by the outer gasket.



C) Push the studs of one backing ring through the tank stud holes.

D) Press the outer gasket over the already inserted studs to prevent the backing plate from falling into the tank.

E) Push the studs of the other backing ring through the tank stud holes.

F) Press the outer gasket over the other inserted studs.



INSTALL FRONT PLATE / OUTER GASKET

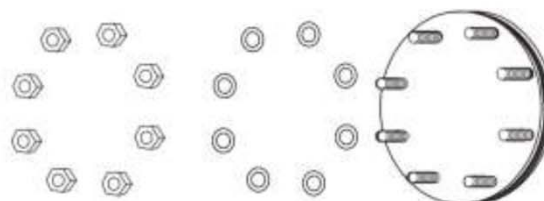
A) Place the front plate over the studs and outer gasket.

B) Use anti-seize compound on the studs to prevent the threads from galling.

C) Place flat washers, then the lock washers, then the nuts over each stud.

D) Tighten nuts until outer gasket is compressed and is pushing slightly from the edge of the front plate.

NOTE: Do not overtighten and severely distort the gasket. *Do not use gasket compound.* Make sure all surfaces are clean and dry during installation.



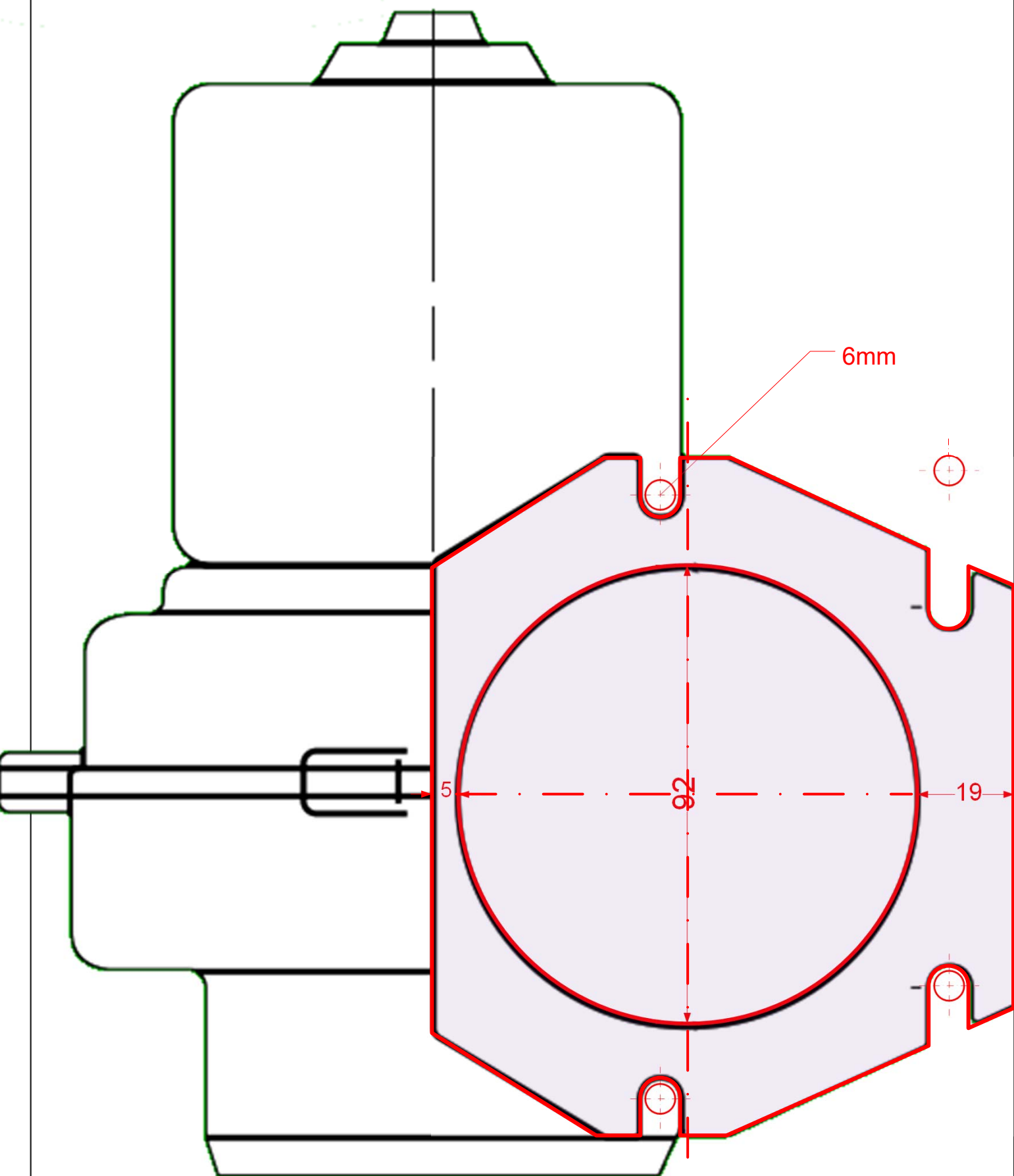
SeaBuilt NW, LLC
7020 Manastash Rd Ellensburg, WA 98926 Phone (509) 933-3110 Fax (509) 463-4331
info@seabuilt.com www.seabuilt.com



5mm 5052 Aluminium



S/V BEATRIX - KELLY-PETERSON 44 #286 (1980)	TITLE Port Diesel Tank Rebuild - Aluminium Starboard Tank 380L	REV H	SCALE 1: 2	PAGE 27 OF 28	UNITS mm	DATE 01/03/22	DRAWN BY JMS
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JABSCO 35760-0092
FLANGEMOUNT
CONTINUOUS DUTY