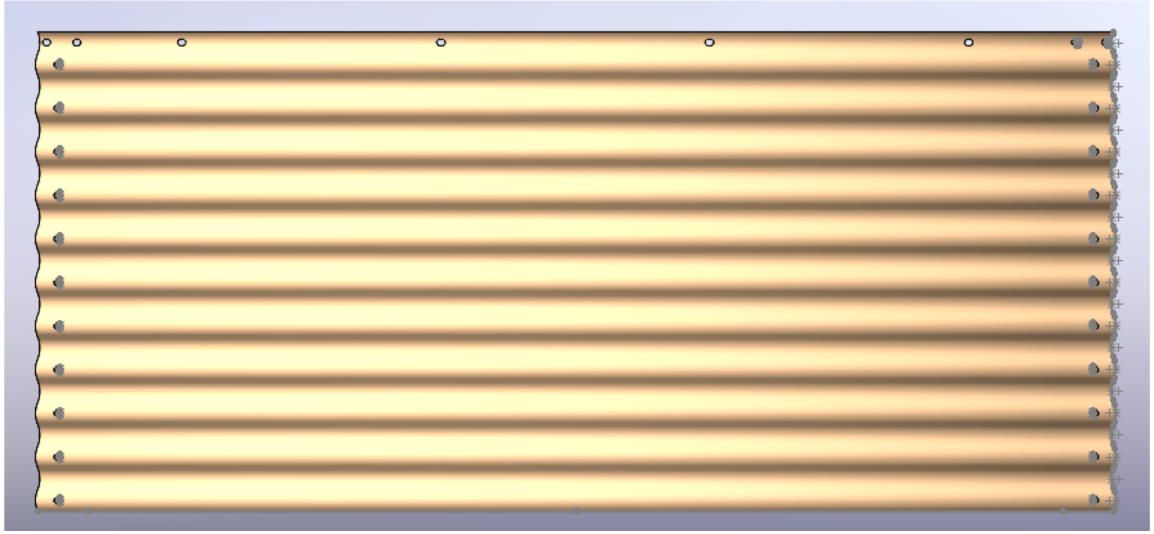
Reference tank, steel:

- Roof
- Bladder
- PVC structure ,Tyvek
- PMT support ,encapsulation
- Timeline

Tank design constrains:

- The current design is 3,550mm diameter and we are supplying 2 heights, 3.6m & 4.3m.
-
- Reasoning is below
- Nominal panel length 2,300mm (to fit into a standard shipping container)
- 1st row 35mm
- 2nd row 2,265mm
- Effective panel length 2,230mm
- Finished Tank Diameter 3,550mm
- 5 panels / rows of bolts (instead of previous design with 6)
- Edge beam 2,190mm long c/w slotted holes at 20 & 2,170 and straight holes at 223 – 669 – 1,115 – 1,561 – 2,007 (5 holes at 446 centres)
- Edge beam bracket redesign to clear panel overlap i.e. 2 top holes at 100mm centres (or whatever minimum centre is required to bolt to vertical seam)
-
-



Container:

CONTAINER OPTIONS

ABOUT US HIRE SALE SPECIALISED MODIFICATIONS SERVICES RESOURCES CONTACT US BLOG

Dimensions, Capacity And Weight

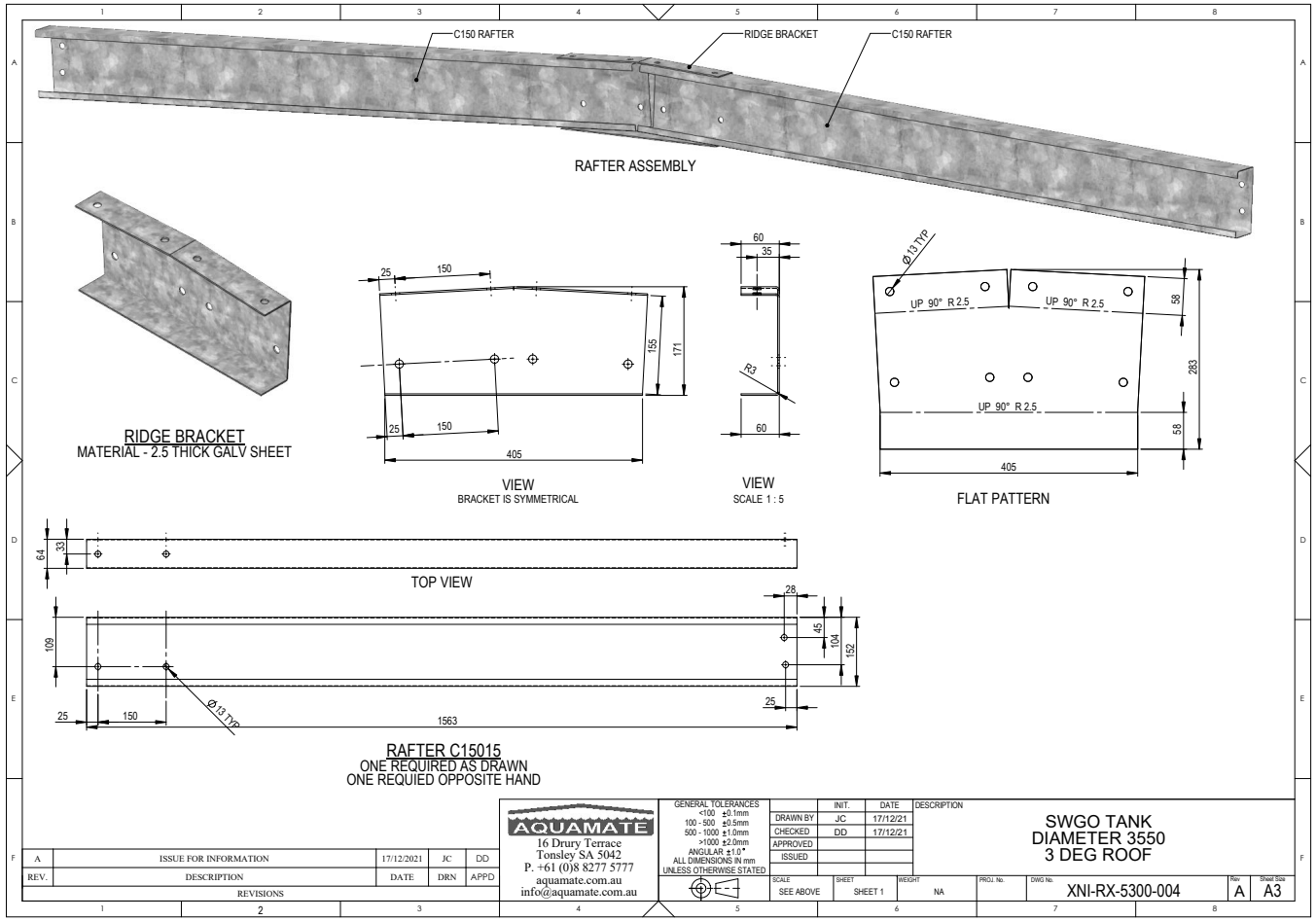
This method of delivery is best suited where there is plenty of space in front of where the container is to be located.

	Length		Width			Height				
Container Size	Exterior	Interior	Exterior	Interior	Door Opening	Exterior	Interior	Door Opening	Cubic Capacity	Approx. empty weight in KG's
6ft	1825	1670	1945	1875	1865	1920	1730	1620	5.45	600
8ft	2435	2280	2200	2100	2090	2260	2150	1950	9.95	900
10ft	2980	2830	2438	2350	2330	2591	2385	2285	16	1250
10ft Hi Cube	2980	2830	2438	2350	2330	2891	2685	2585	18	1350
20ft Standard	6058	5880	2438	2350	2330	2591	2385	2285	33.1	2100-2400
20ft Hi Cube	6058	5880	2438	2350	2330	2891	2685	2585	37.4	2300-2600
20ft Palletwide Hi Cube	6058	5880	2500	2420	2400	2891	2685	2585	38.8	2550-2850
40ft Standard	12192	12015	2438	2350	2330	2591	2385	2285	67.7	3500-4000
40ft Hi Cube	12192	12015	2438	2350	2330	2896	2685	2585	76.2	3700-4200
40ft Palletwide Hi Cube	12192	12015	2500	2420	2400	2896	2685	2585	78.8	3800-4400

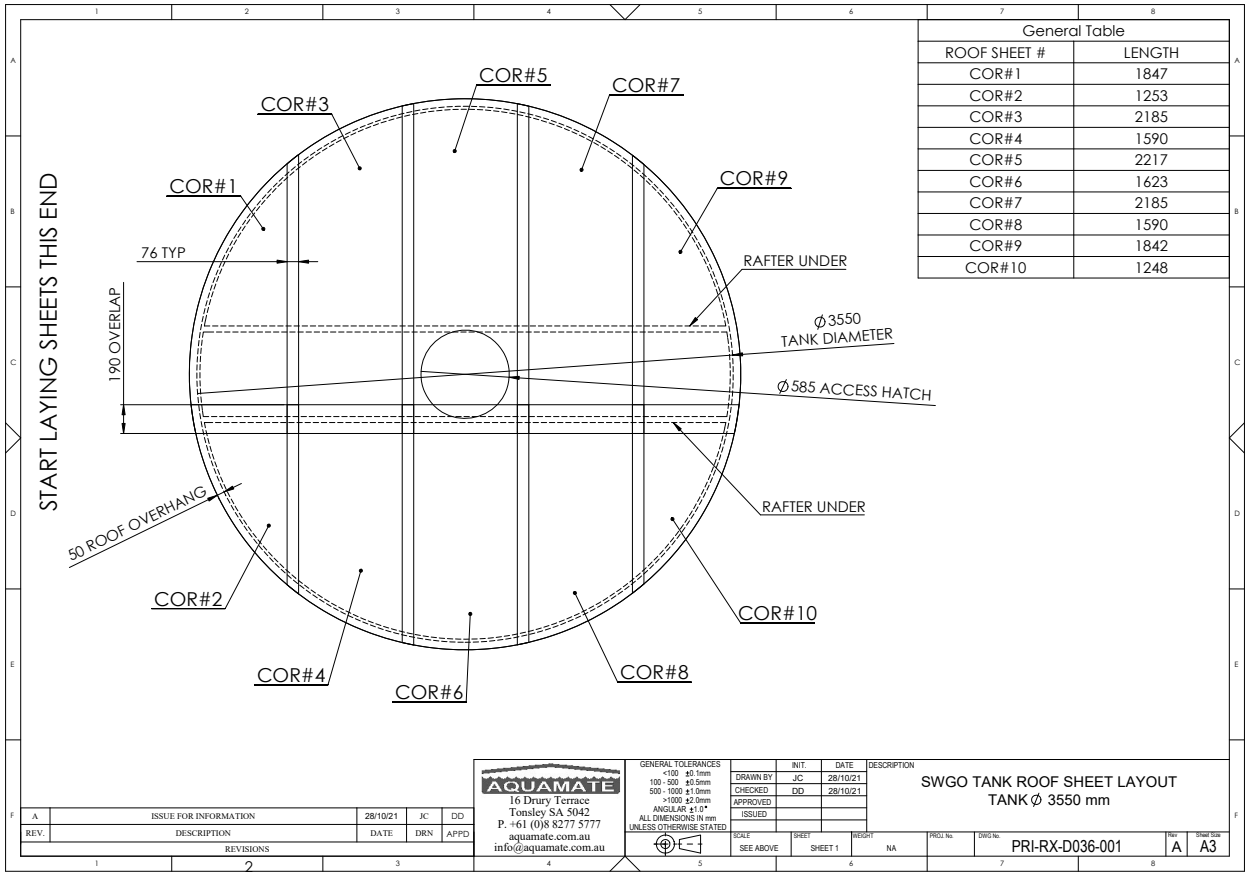
PLEASE NOTE

Apart from "Container Size" all dimensions are in millimetres, kilograms & cubic metres. Dimensions can vary slightly depending upon the manufacturer.

Rafters 3deg pitch:



Roof sections:



General Table	
ROOF SHEET #	LENGTH
COR#1	1847
COR#2	1253
COR#3	2185
COR#4	1590
COR#5	2217
COR#6	1623
COR#7	2185
COR#8	1590
COR#9	1842
COR#10	1248

REV.	DESCRIPTION	DATE	DRN	APPD
A	ISSUE FOR INFORMATION	28/10/21	JC	DD

REVISIONS

AQUAMATE
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Tonsley SA 5042
P. +61 (0)8 8277 5777
aquamate.com.au
info@aquamate.com.au

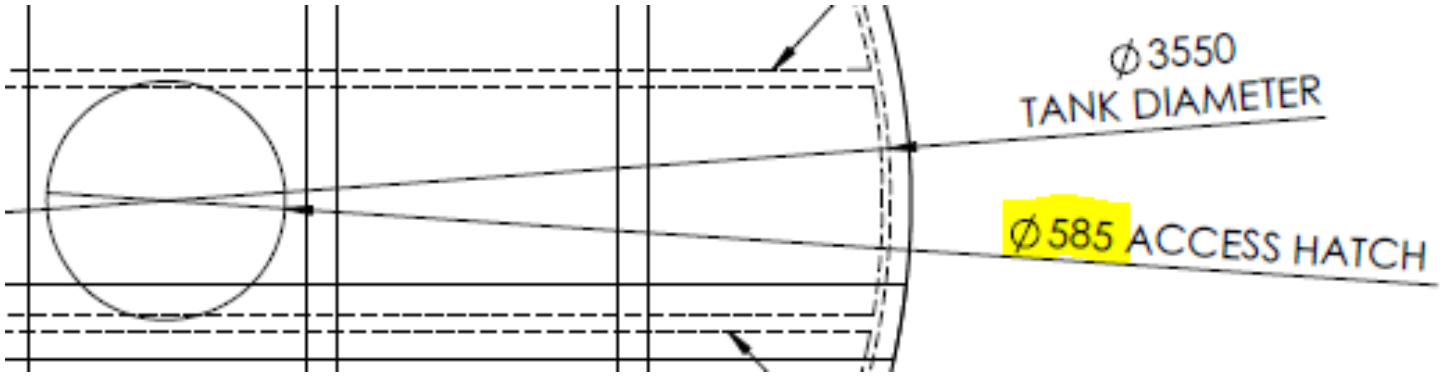
GENERAL TOLERANCES
<100 ±0.1mm
100 - 500 ±0.5mm
500 - 1000 ±1.0mm
>1000 ±2.0mm
ANGULAR ±1.0°
ALL DIMENSIONS IN mm
UNLESS OTHERWISE STATED

	INIT.	DATE	DESCRIPTION
DRAWN BY	JC	28/10/21	
CHECKED	DD	28/10/21	
APPROVED			
ISSUED			

SWGO TANK ROOF SHEET LAYOUT
TANK Ø 3550 mm

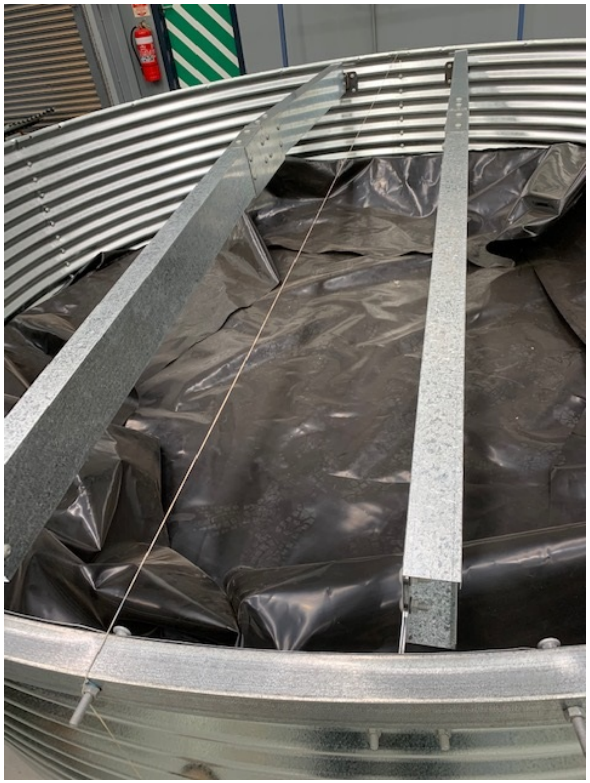
SCALE	SHEET	WEIGHT	PROJ. No.	DWG No.	Rev	Sheet Size
SEE ABOVE	SHEET 1	NA		PRI-RX-D036-001	A	A3

Roof hatch



Roof progress:

(almost finale)



The trusses provide a 3degree slope in all directions and are set 600mm apart to allow for the access hatch and to provide as much strength for personnel to access the hatch.

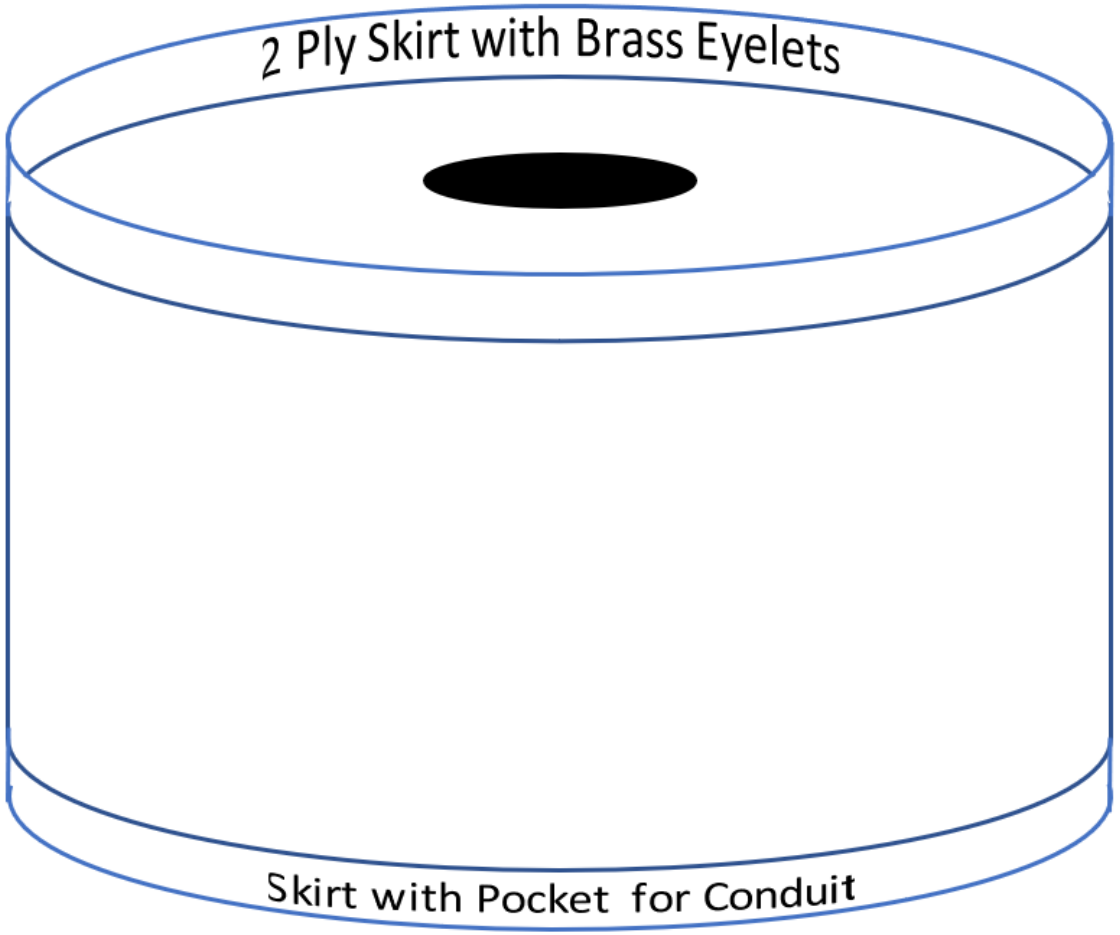
We have also decided to try to put the 50 x 50 edge beam on the outside of the tank.

This will give the installers an edge to finish at with the roof iron and make installation simpler.

Roof support section:

Roof final design:

Current Bladder design:

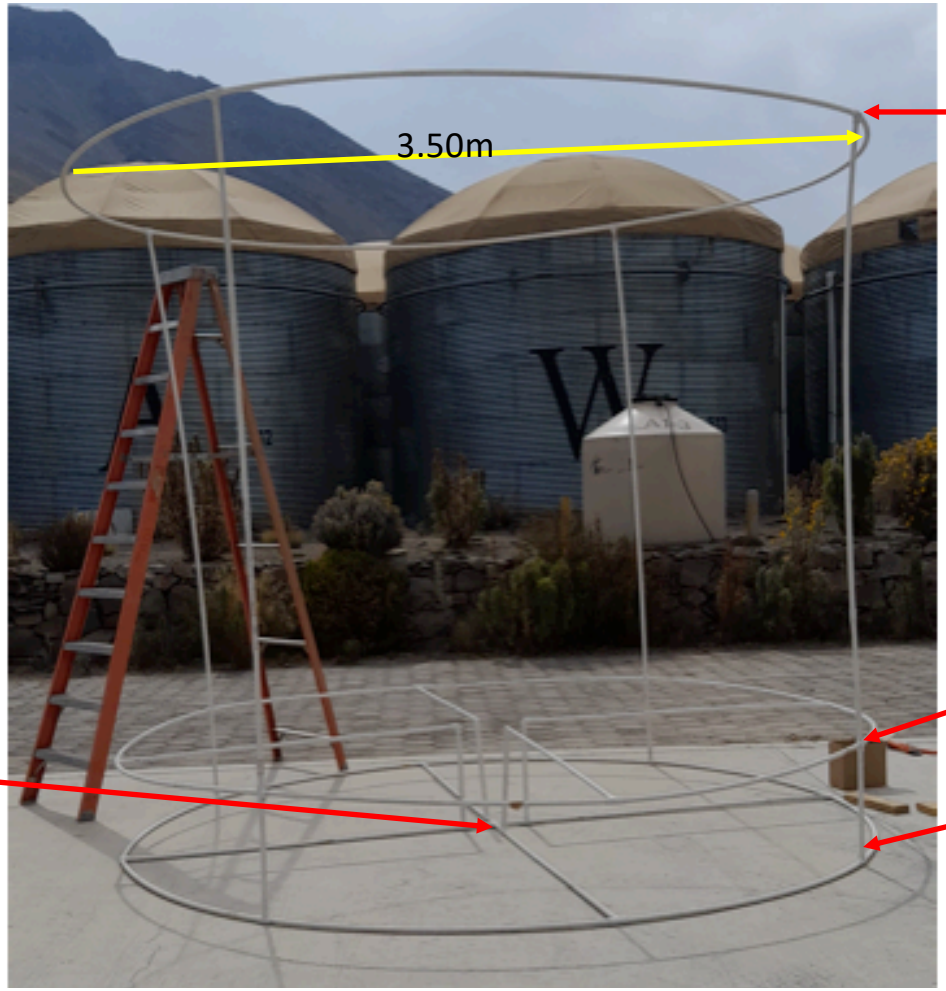


Bladder with bottom conduit showing:

Hatch:

Milagro Tyvek in outrigger tank:

PVC structure for steel tanks:



To support TYVEK and center PMTs

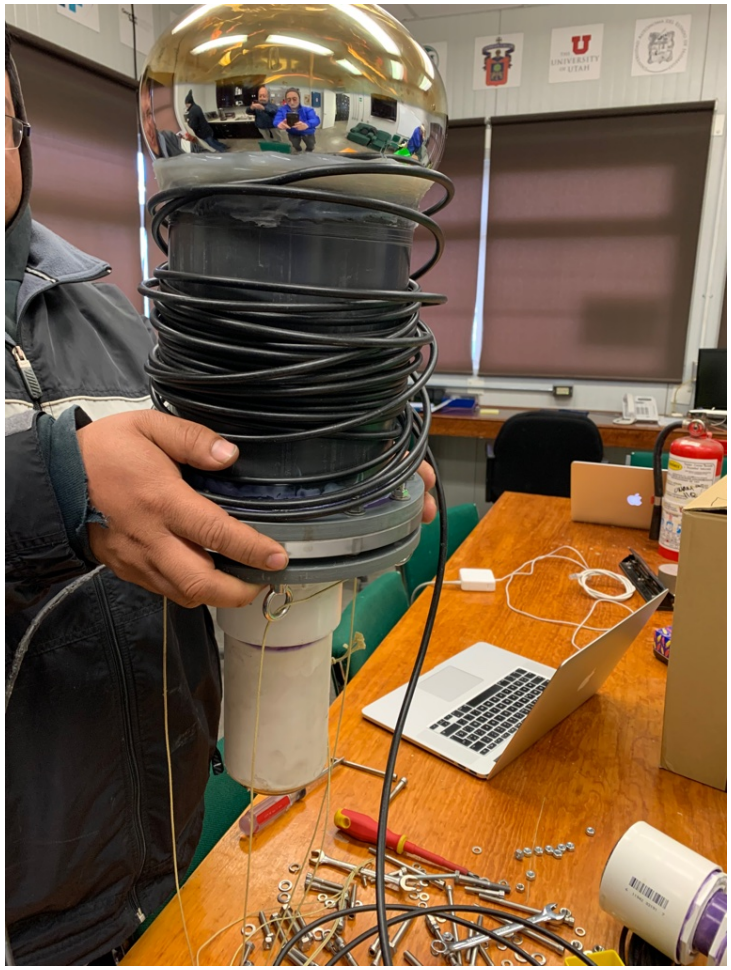
Top ring at 3m form bottom

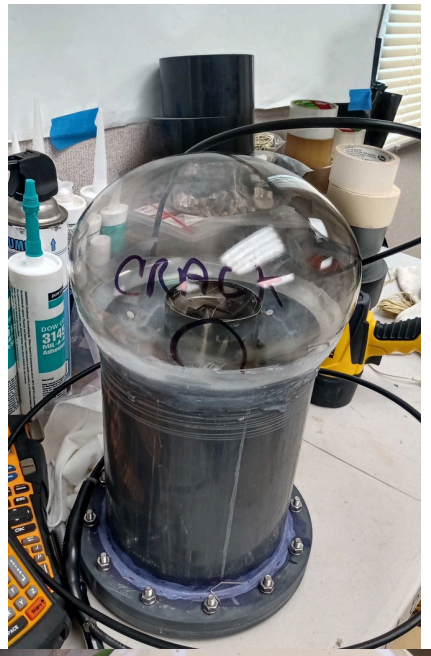
Lower ring at 0.5m from bottom
center gap of 0.15m radius

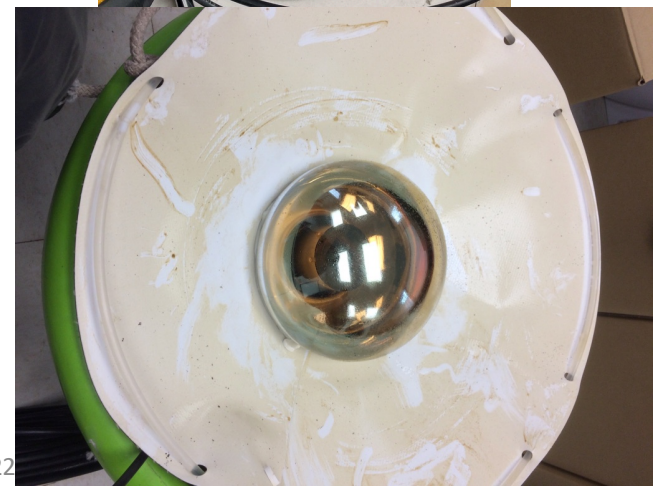
center

Bottom ring with center cross to be anchor point for PMTs , weight can be added inside PVC

1m bottom:

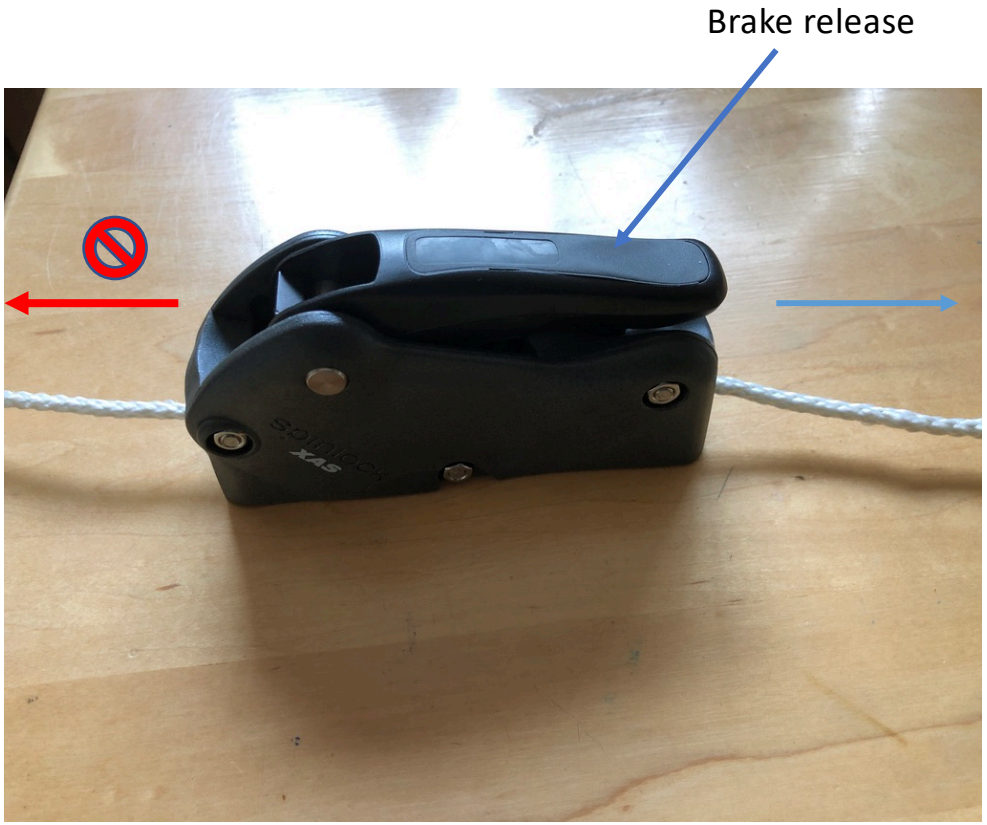



CRACK



double 8”PMT

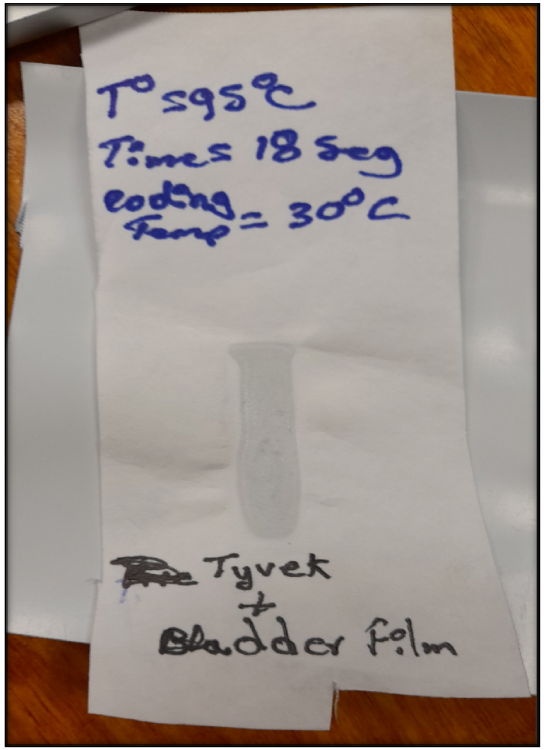
One way rope brake:



HAWC – film –Tyvek:

(1073M Dupont 74 gr.)

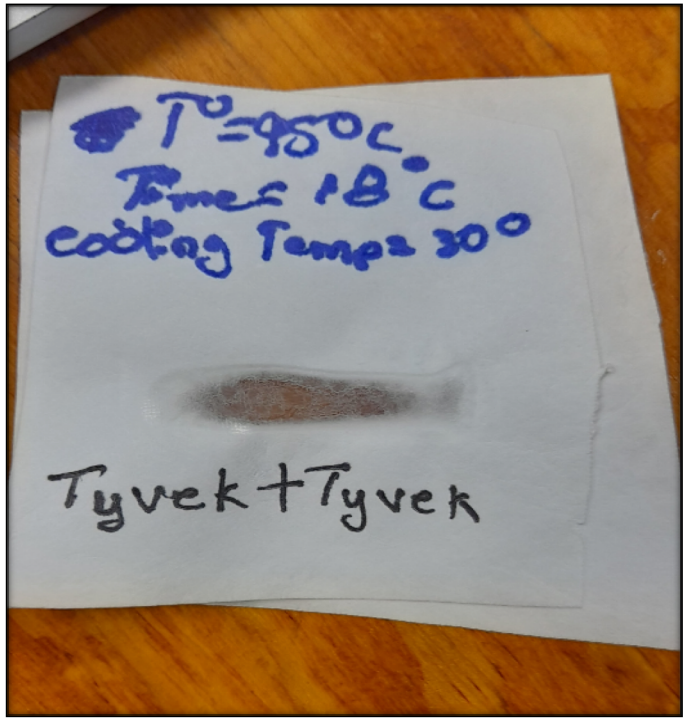
(tack welded)



(laminated)

Tyvek to Tyvek:

(tack welded)



- Layfield manufacture their proprietary modified LLDPE geomembranes, GeoFlex™ & Enviro Liner®, using a blown film extrusion method.
- *"Tyvek® is a specialty substrate (nonwoven) made from very fine high-density polyethylene fibers. These fibers are flashspun, then laid as a web on a moving bed before being bonded together by heat and pressure."*

- Tyvek® is not widely used here in Australia and the only Tyvek® product I could find available online here in Australia is the Tyvek® Homewrap which I do not believe will be suitable.
- According to Dupont, their 1059B & 1073B Tyvek® should be used for heat sealing – data sheet attached.
- These two grades also appear to be untreated polyolefin non-woven biological grade materials making them potentially suitable for your application.
- If we are able to source a suitable Tyvek® material here in Australia, I will contact a local laminator to see if they can bond the Tyvek® material to the either the GeoFlex™ or Enviro Liner® so as we can attempt to fabricate bladders from the laminated material.