

Emergency Aid Camp Infrastructure



WATER / WASTE WATER BLADDER TANKS

Often referred to as 'layflat' or 'pillow' tanks, our water bladders have been developed with the harshest of emergency aid environments in mind. We offer two specifications; medium duty for economic water storage or heavy duty for multi-site storage applications and water transportation.



The tanks are extremely versatile and can be unrolled and used on any area of flat ground that has been cleared of debris, they require no special tools for installation, and are easily emptied and packed for storage when not in use.



Transportation Harness



Tank Outlet



Corner Module



Outlet, Gate Valve & Plug

- 1,000 to 100,000 litre capacity
- Suitable for deployment in ALL climates
- Installed by 2 people in under 15 minutes
- Securely packed in ISPM15 heat treated plywood cases suitable for export
- Includes instruction manual and bladder repair kit
- Supplied as individual tanks or as part of a kit to include optional pipework, pumps and tapstands for water distribution
- Suitable for water/waste water storage & transportation and for chemically contaminated waste water applications.
- Can be used within a CBRN approved system



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Construction Detail

All bladders are fitted with reinforced corner mouldings with integral tie-down holes and an automatic pressure relief valve set at 1PSI (0.007Nm/m²) to prevent bursting through overfilling.

Medium Duty Static Water Tank outlets

One 2" BSP(M) reinforced PP moulded outlet with screw cap to one side of tank
One 4" BSP(F) PP moulded outlet with PVC screwed cap and integral pressure relief valve at the top of the tank. Larger bladders (60,000 litre +) are fitted with two 4" Top caps with covers.

Heavy Duty Static & Transport Use Water Tank Outlets

Two 2" BSP(F) anodised aluminium screwed outlets installed to one side of the tank.
One 4" BSP(F) anodised aluminium screwed outlet with PP screwed plug incorporating an integral pressure relief valve at the top of the tank. Extra outlets can be provided to suit the tank application.

Medium Duty Tanks up to 50,000 litre capacity

- Base cloth: PES/PES (1100g/m²)
- Breaking strength: 4000N/5cm
- Tear strength: 600N
- Adhesion: 100N/5cm
- Temperature resistance: -30C to +70C

Heavy Duty Tanks up to 100,000 litre capacity

- Base cloth: 1670 dtex high tenacity polyamide (1250g/m²)
- Breaking strength: 5500 / 5000N/5cm
- Tear strength: 900 / 800N
- Adhesion: 125N/5cm
- Temperature resistance: -30C to +70C

Groundsheets

Produced approximately 1.00m larger than the bladder tank dimensions when empty. All groundsheets are fitted with moulded in eyelets for pegging down if required.

Capacity (litres)	Layflat Size (metres)	Gr/Sheet Size (metres)	Tank Size Filled (m) (approx.)
1,000	1.50 x 2.60	2.50 x 4.00	1.00 x 2.10 x 0.50h
2,000	2.30 x 2.60	3.50 x 4.00	1.70 x 2.00 x 0.60h
3,000	3.10 x 2.60	4.00 x 4.00	2.50 x 2.00 x 0.60h
5,000	4.50 x 2.60	5.50 x 4.00	3.80 x 1.90 x 0.70h
10,000	3.40 x 5.20	4.50 x 6.00	2.40 x 4.20 x 1.00h
15,000	4.50 x 5.20	5.50 x 6.00	3.40 x 4.10 x 1.10h
20,000	5.40 x 5.20	6.00 x 6.00	4.20 x 4.00 x 1.20h
30,000	7.20 x 5.20	8.50 x 6.00	5.90 x 3.90 x 1.30h
40,000	7.20 x 6.55	8.50 x 7.50	5.90 x 5.25 x 1.30h
50,000	8.30 x 6.50	9.30 x 7.50	6.80 x 5.00 x 1.50h
60,000	8.40 x 7.35	10.00 x 8.35	6.90 x 5.35 x 1.50h
80,000	9.20 x 7.35	10.00 x 8.35	7.70 x 5.35 x 1.50h
100,000	10.40 x 9.10	11.50 x 10.00	8.90 x 7.60 x 1.50h



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