



Above Ground Storage Tanks - Accessories & Options

07. Rainwater Harvesting Filters

With tanks ranging from 2500 to 30,000 litres, these tanks are ideal for harvesting rainwater from large area, pitched roofs.

Alongside the recognised benefit of conserving our precious water resources, as climate change is having an increasing impact, harvested rainwater can be used for agricultural sprayers, wash down water, grey water systems for flushing toilets, for industrial washing and cooling...and much more.

Sized according to roof size in m².

Kit A = < 200m². Kit B = < 450m². Kit C = < 800m².

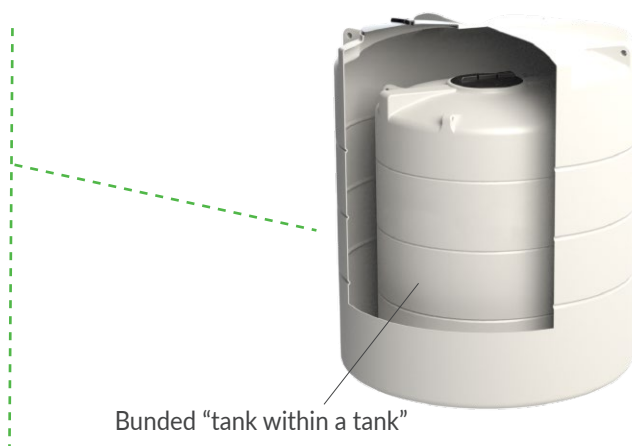


08. Bunding

Above-ground, bunded holding tanks are widely used as a safety measure for the holding of water and liquid wastes (e.g. effluent and sewage). Applications include the construction, events and sanitation industries, as well as domestic and commercial sites.

Above ground, bunded effluent tanks are a “tank within a tank” and give the 110% bunded volume required for some installations. The maximum volume of the liquid-holding tank is 10,000 litres.

Should the main, inner tank fail, the larger external tank will capture the spillage, avoiding an environmental problem.

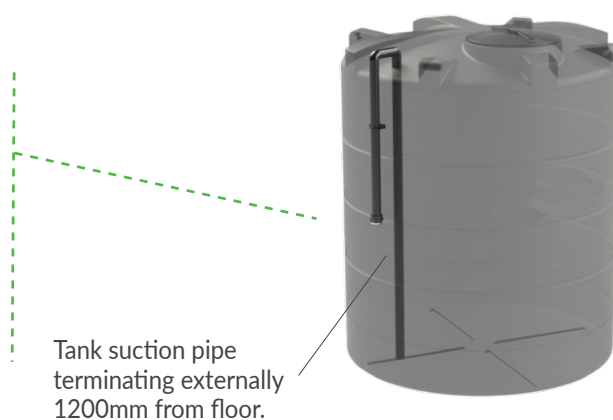


09. Filling & Emptying Bunded Tanks

Best practice for the filling and emptying of bunded tanks is by using “up and over” pipework into the inner, main tank.

“Fill pipework” (see 07. above) terminates inside the tank roof and is available in a range of diameters and fittings for connection to the source. For water, ball cock float valves can be used.

“Emptying pipework” (see image) terminates internally just above the base of the tank and is also available in a range of pipe diameters and fittings for connection to a suitable suction pump.



SPEAK TO US TO DISCUSS THE MOST SUITABLE OPTIONS



Above Ground Storage Tanks - Accessories & Options

10. Tank Insulation

Insulated water tanks are designed for use where temperature regulation is key and/or for the prevention of overheating or freezing of liquids. Tanks are constructed from medium-density, UV stabilised, food-grade polyethylene, also WRAS-approved for drinking water storage: then sprayed with an insulated foam finish in 13mm or 25mm thickness. The foam finish can be applied to just the tank with other fittings exposed, or pipework can also be encased. This can be discussed and agreed before production.



INSULATION PERFORMANCE TABLES

Please note: The figures quoted within these tables presume that each tank is full to its capacity and the content is stationary water. The thickness of insulation in each case is 13mm and the ambient air temperature is constant throughout. These tables are provided as a guideline only and other external factors may influence the final outcome.

COLD TEMPERATURE RESULTS

Tank Volume	Dimensions (dia x H) & Wall Thickness (mm)	Outside Temp °C (constant)	Contents Temp °C (start)	Contents Temp °C (final)	Time to final temp (hrs)
2500 Litres (551 gallons)	1200 dia x 1200 H 4mm	-5	+10	0	143.66
		-10	+10	0	91.09
5000 Litres (1,101 gallons)	1900 dia x 2300 H 6mm	-5	+10	0	191.86
		-10	+10	0	121.65
10,000 Litres (2,203 gallons)	2400 dia x 2500 H 8mm	-5	+10	0	231.27
		-10	+10	0	146.64
15,000 Litres (2,203 gallons)	2400 dia x 3550 H 10mm	-5	+10	0	255.22
		-10	+10	0	161.82
20,000 Litres (2,203 gallons)	2850 dia x 3600 H 10mm	-5	+10	0	291.06
		-10	+10	0	184.54
30,000 Litres (2,203 gallons)	3450 dia x 3650 H 12mm	-5	+10	0	333.99
		-10	+10	0	211.77

WARM TEMPERATURE RESULTS

Tank Volume	Dimensions (dia x H) & Wall Thickness (mm)	Outside Temp °C (constant)	Contents Temp °C (start)	Contents Temp °C (final)	Time to final temp (hrs)
2500 Litres (551 gallons)	1200 dia x 1200 H 4mm	+25	+10	+15	51.51
		+30	+10	+15	36.38
5000 Litres (1,101 gallons)	1900 dia x 2300 H 6mm	+25	+10	+15	68.80
		+30	+10	+15	48.58
10,000 Litres (2,203 gallons)	2400 dia x 2500 H 8mm	+25	+10	+15	82.93
		+30	+10	+15	58.57