GRP Sectional Cold Water Storage Tanks Manufacturing Tanks Since **1973**





Sectional Tank Brochure

www.tricel.ie

GRP Sectional cold water storage tanks

We are one of the few companies who possess the technical expertise and the advanced manufacturing facilities - not only to produce hot press moulded tanks but also to produce in-house, the single most important element, Sheet Moulding Compound (SMC).

This advanced composite, SMC, is manufactured in Killarney with all the necessary characteristics that are required, being incorporated into the design.

Our experience in composites technology extends over 40 years, during which time we have grown to become a market leader, having achieved a preeminent position in our chosen field.

Drawing upon 40 years' experience in the GRP industry, Tricel is in a unique position to offer a range of superior systems to our customers. We are totally committed to the pursuit of excellence and are accredited to the quality standard ISO 9001.

- ISO 9001 accredited
- 40 years' service to the construction industry
- Backup of trained and experienced technical staff
- Site assembly by fully trained personnel
- Suitable for the storage of potable water
- Available insulated to Format 30 (F30)
- Design and supply of steel towers for elevated sites
- Internally or externally flanged base available
- Light or heavy covers available







Panel types and sizes

Tank panels are available in metric size. There are no restrictions to the length or width available.

Metric tanks are available to a height of 4m.

Tank lengths, widths and heights are available in half panel increments i.e. 6.65m x 4.65m x 2.5m (h)

m litres gallons litres litres	Capacity Tables - Metric Panels Panel sizes available: 1m x 1m, 1m x 0.5m, 0.5m x 0.5m. Tank sizes given in this table are based on their external dimensions which are 150mm great than the internal dimensions. Nominal capacities are calculated based on internal dimensions as follows: INTERNAL LENGTH x WIDTH x HEIGHT IN METRES = M3 x 1000 = Litres (divided by 4.546 = Gallons).														than the
11.5 11.0 120 150 330 200 440 250 550 300 660 787,5 1732 9000 1.65 1.15 1500 330 2250 495 3000 661 3750 8.26 4500 911 9529 2096 7590 2.65 1.15 2500 550 3750 825 500 1101 6530 1377 7500 1651 2467 5467 12192 2.65 1.65 3750 825 520 1700 1652 9375 1651 9000 1304 9869 12192 1440 3501 14197 3597 1449 1500 151 150 1600 1320 8604 16179 3597 1440 1500 151 151 150 151 151 1440 1501 151 151 150 150 150 1501 1501 1501 1501 1501 1501 1501	4m high														
165 1.15 1500 330 2250 495 3000 661 3750 826 4500 991 6020 1750 215 1.65 3000 660 4500 991 6000 1322 7500 1651 9000 1982 16179 3559 14190 2.65 1.15 2500 550 3750 825 5000 1101 6520 1377 7500 1652 2478 15304 3666 17400 2.65 1.15 2000 440 5000 1370 8000 1760 10000 1200 2401 1500 3900 12679 2789 14400 3.15 1.15 4000 880 6000 1320 7500 1650 3900 12679 2789 14490 3.15 1.000 1660 4500 990 6000 1320 7500 1650 3900 1267 2799 5169 516 516 <t< th=""><th>litres gal</th><th>gallons</th><th>litres</th><th>gallons</th><th>litres</th><th>gallons</th><th>litres</th><th>gallons</th><th>litres</th><th>gallons</th><th>litres</th><th>gallons</th><th>litres</th><th>m</th><th>m</th></t<>	litres gal	gallons	litres	m	m										
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1.15 2500 550 3750 8.25 5000 1101 6.250 1377 7500 1652 24,57 1219 2.65 1.65 3750 823 5625 1278 7500 1652 9375 2065 11250 24.78 15304 3366 17490 2.15 1.15 2000 440 3000 660 4000 880 5000 1.100 6000 1320 8654 1944 9890 2.15 1.15 3000 660 4500 990 6000 1320 7500 1650 900 1960 2679 2789 14490 3.15 1.15 6000 1320 9000 1360 1200 2640 1670 3569 4.15 1.15 4000 880 6000 1320 8000 1760 1200 2400 5779 3122 6670 35690 4.15 1.15 4000 1760 1200	7590 16	2096	9529	991	4500	826	3750	661	3000	495	2250	330	1500	1.15	1.65
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1.15 3.15 9.00 1.980 1.960 2.100 2.100 1.11	14490 31	2789	12679	1980	9000	1650	7500	1320	6000	990	4500	660	3000	1.15	3.15
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	4651290 102														



Access for erection: Full access specifications are available on our website. Please phone sales on +353 (0) 64 6632421 for any technical help that you may require, or simply to size a tank into the space available to you.

Our trained technical staff are here to help and advise you, to ensure that you achieve the most economical solution on all of your water storage requirements.

Format 30

Format 30 is Tricel's description of tanks with Heavy Duty panel covers, complete with screened vents, overflows, warning pipes etc. and having roof panels and side walls insulated with encapsulated CFC-Free polyurethane foam insulation. This meets the requirements of section 30 of the water bye laws in the majority of situations. Tanks in boiler rooms etc. may also need base insulation.

Please Note:

Insulation slows down but does not prevent heat loss or gain over protracted periods. Additional information is available in BS EN 13280:2001 & BS EN 806-1:2000, BS EN 806-2:2005, BS EN 806-3:2006, BS EN 806-4:2010, BS EN 806-5:2012, BS 8558:2011





Tanks Insulated and finished to Format 30

Note: This is only an example of one type of insulation skin, there are different arrangements for different types of tanks.



Pipe Connections for Insulated Cold Water Storage Tanks

The areas where pipe connections can be made on insulated tanks are more restricted than in standard tanks, the picture shows a recess in the insulation panel to allow for the pipe connection.





- Current legislation states that hot or cold water in any premises that might be used for human consumption must be of potable quality.
- In addition to tank material specifications, there are now further requirements for lid design, the screening of vents, breathers, overflows, warning tell-tale pipes and the provision of insulation which will help prevent freezing and also help keep water as cool as practicable, ideally less than 20°C.

Guidelines for different models of tanks

• Standard tank

This tank is complete with internally flanged base, externally flanged side walls. All under water stays are stainless Steel.

• Light duty cover

Only suitable for indoor use, and for the storage of foul water. They are not designed to take man weight.

• Heavy duty cover

Suitable for indoor and outdoor use, and for the storage of foul water. These tanks have internally flanged lid panels, similar to those used in the base.

Heavy duty cover and finished to format 30

Suitable for indoor, outdoor use and for the storage of potable (drinking)water.

• Types of bolts

Standard tanks come complete with bolts galvanised to BS EN ISO 1461:2009, we recommend that consultants specify Stainless Steel grade 316 S16 bolts under water.

Dividers

In any situation where there is only one water storage tank in a building and the capacity is greater that 1000 litres (220 gallons), BS 6700 states "To avoid interruption of the water supply when carrying out repairs or maintenance, the cistern shall be provided with compartments or standby cistern". *Note:* we recommend that two separate tanks be used, where an uninterrupted water supply is critical.





Insulated panel with recess for pipe work
Ball valve housing
F. F. Grand Ladden

3. External ladders

• Ball Valve housing

Enclosed chamber containing an access hatch above the level of the cover, permitting the level control mechanism to be mounted at a higher level than would otherwise be possible.

Ladders

Where tank depth is 1.5 m or greater, internal and external ladders should be specified. If the tank is on a raised platform then ladders may be required on tanks lower than this height.

• Reverse base tanks

(Externally flanged base) These types of tanks allow the tank to be totally drained down, as the base is flat and they also allow access to all the bolts from outside the tank.

• Weir

Construction of one or more panels within a tank, which divides the tank but to less than its full depth such that the contents can spill over from one side of the weir to the other.

• Baffle

Construction of one or more panels within a tank, which partially subdivides the tank in order to increase the length of the flow-path between the inlet and the outlet from the tank.



Tricel is a global provider of high performance solutions for the Water, Environmental, Construction and Materials industries. Our company ethos "Generations of Innovation" is built around three interlinking themes; Innovation, Quality and Heritage, which have been developed over the last 40 years. We deliver innovative quality solutions that our customers can trust. With manufacturing locations in 5 countries we possess a broad and distinct range of capabilities enabling us to supply a comprehensive range of products to over 50 countries worldwide.

One-piece tanks

Tricel manufactures a variety of One-Piece cold water storage tanks. These durable Fibreglass (GRP) tanks are easy to install and represent excellent value for money. They come in sizes from 45 to 4,546 Litres and are available ex-stock.

All of our One-Piece tanks can be supplied Factory Insulated to Format 30, thus meeting requirements for Break Tanks. All capacities are nominal.

Modular building systems

The modular building system is constructed of GRP (fibreglass) modules to various sizes and colours to meet customers specifications.

Architecture

Modular building systems can help you meet strict planning regulations, by hiding unsightly booster-sets, pumps, air-conditioning systems & water tanks. These Modular systems from Tricel can help blend rooftops into more natural surroundings.

Lowline housings - insulated housings for tanks and equipment

Lowline insulated housing systems offer complete design flexibility for use in many applications, from a simple tank housing to a complex extended insulated covering for duct and pipework runs. Unit height can be varied by adjusting the dwarf walls on which it stands.

Tricel's design department are always available for consultation, technical advice and assistance. We have many years of experience in the construction industry and can offer sound advice on our products in association with particular building applications.

Liquid storage tanks

Liquid storage tank systems for below or above ground applications, with the provision of a storage capacity of 15,000 litres and upwards. They are designed primarily for buried sites, where below ground storage is required for climactic or environmental reasons. The walls are formed from rigid, flanged, self-supporting, hemi-cylindrical GRP sections.













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In accordance with Tricel's normal policy of product development these specifications are subject to change without notice. Tricel (Killarney) Unlimited Company trade as Tricel