

CT Round Poly Tanks

Installation & Tank Base Preparation Requirements

There is no substitute for correct site preparation. Correct site preparation is essential to ensure a long and trouble-free life for your tank. It is essential to have your tank on a **FLAT LEVEL COMPACTED BASE**. The base of your tank must be fully supported at all times.

Tanks are designed to expand and contract as water levels rise and fall, ensure tanks are positioned with a minimum of 150mm clearance from fixed objects.

Each water outlet must also have a flexible hose (300mm in length) connected and placed between the ball valve and other plumbing (poly pipe is not suitable to use as a flexible hose).

Ensure all plumbing from the fittings are well supported to reduce strain, potentially causing damage.

All stub flanges must have a bellow/expansion joint installed to reduce strain and undue pressure on the tank wall.

Water volume entering the inlet must equal the water volume of the overflow, e.g.: 2 x 90mm inlets = 2 x 90mm overflows or equivalent.

Overflows are to be piped away from bases to prevent undermining.

When installing charged drain downpipes, ensure the line is positioned at least 150mm away from the tank wall to allow for natural expansion and contraction.

Tank Bases

Round tank bases must be 300mm wider than the diameter of the tank and prepared as follows:

e.g. Round Tank diameter 3690mm + 300mm = 3990mm minimum require for tank pad

Crusher Dust (contained)

Crusher dust (very fine road base) must be granular and have a grain size less than 5mm and shored (for example with garden sleepers) to protect against erosion. It must be compacted prior to tank delivery, and the surface of the material must be flat, level, and larger than the base of the tank. **NOTE: SAND IS NOT ACCEPTABLE**

1. Remove at least 100mm of natural earth, ensuring the base is flat and level, free of stone, tree roots etc.
2. Create retaining box and refill with at least 75mm of crusher dust, you can also mix in dry cement powder.
3. Once spread, thoroughly compact the crusher dust with suitable compacting equipment.
4. Thoroughly screed the surface and ensure the finished surface is perfectly **FLAT & LEVEL**.

Concrete Slab

Slabs need to be screeded flat and level with no high or low spots. The finished surface should have a trowelled finish.

Round Tanks under 25,000L Concrete slab must be at least 25mpa & 100mm (4") thick with F62 mesh halfway through the mix.

Slab must be at least 150mm thick with 2 layers of F82 mesh 75mm apart and a thickening of 200mm wide & 200mm deep with Y16 reo bar at the bottom of the thickening around the edge of the slab.

Tank Stands

Tank stands must be constructed to hold the weight of a full tank. We recommend a hardwood timber decking which is **FLAT AND LEVEL**, with boards spaced no wider than 10mm apart.

1. Prepare a stand that has a hardwood decking with gaps no greater than 10mm. Decking should be supported structurally by bearers strong enough to prevent sagging of decking when the tank is full.
2. Tank must be lifted into place by a crane (hire at customer's expense). Tank must then be secured to the stand.

Water inlet - we recommend water be directed into the tank through the strainer. Fixed inlets must be supported and have flexible hose fitted. Inlet pipe must be supported by stand.

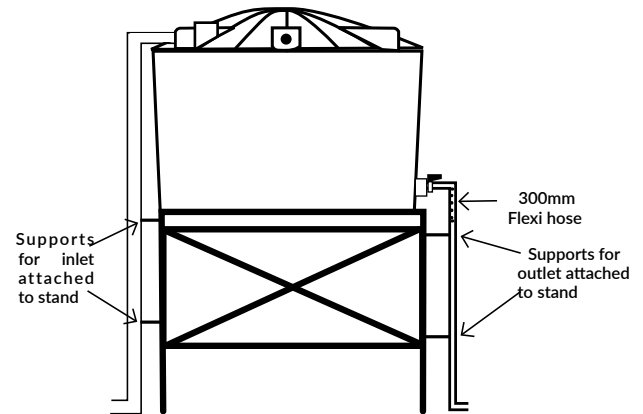
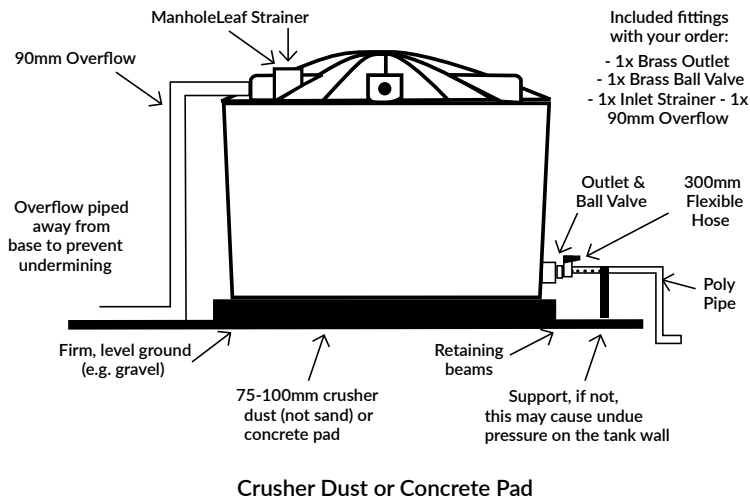
Inspect Regularly

The pad must be inspected regularly for any signs of erosion, subsidence, or animal burrowing, as any of these things may cause undue stress on the tank wall which will result in voiding your warranty. Inlet & Overflow strainers should be regularly checked and remove any build up or obstructions.

Kingspan Water Tanks accepts no responsibility for negligence or otherwise, for loss or damage to tanks installed by the customer notwithstanding that the customer has relied upon and followed the recommendations contained herein. These recommendations are a guide only and we do not warrant that the recommendations are accurate or suitable for use by any particular customer or for any particular tank sold.

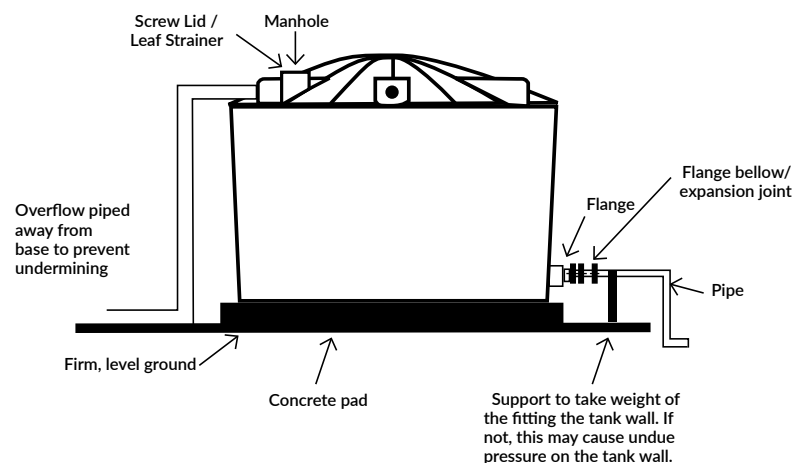
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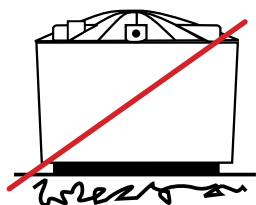
Pipe work for tanks on stands must be supported by the stand, not the tank, with flexible hose to allow for any movement.

Tanks used for non-residential, commercial, industrial, or agricultural purposes and/or installed with fittings, accessories, or modifications that are additional to or exceed the Manufacturer's standard inclusions.

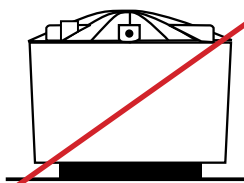


Examples of Poor Pads

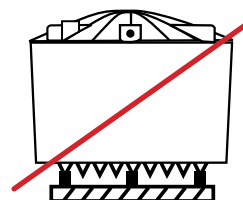
These examples will void your tank(s) warranty due to the undue stress and pressure that will be put onto the tank(s) wall, base and or outlet(s).



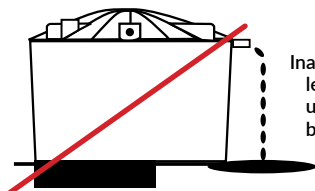
Rocky or uneven ground with minimal preparation can undermine the tank base, and sharp objects may puncture or damage the tank.



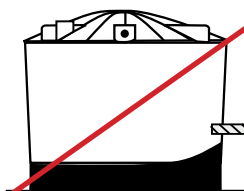
Must not have undersized base, circumference of tank must be supported.



Corrugated iron decking, timber sleepers and bricks are NOT ALLOWED. This type of decking should not be used under any circumstances as it is unstable.



Inadequate overflow length may cause undermining of tank base.



Unsupported pipe puts excess strain on the fitting and tank wall.