

ABOVE GROUND WATER TANK INSTALLATION INSTRUCTIONS: It is important You Read and Understand this Information Before Installing Your Tank

1. Location:

Locating your tank in a shady area may help keep the water cool and your tank cooler. In deciding where to best place your tank be mindful of proximity to buildings and other structures. Owners are advised not to enclose tanks following installation, or install such that sufficient expansion of the tank will be restricted (i.e. do not place tanks hard up against fixed walls, fences, or structures. **Doing so will void your warranty**).

All tanks placed in open areas where livestock have access must be fenced to a minimum of 1.0 metre from the tank to avoid any possible damage to the tank wall. In areas prone to strong or gusty winds (e.g. hilltop locations) stabilising wires must be located through the lifting eyes in the top roof ribs and secured to the ground, particularly where the water level in the tank may vary considerably. **Failure to meet these requirements will void the warranty.**

In areas prone to rabbit or other burrowing animals wire mesh will be required to be erected in a narrow trench around the foundation perimeter to a minimum depth of 600mm. **Failure to do so will void the warranty.**

2. Site Preparation:

Firm flat level ground foundations are required. Ensure the platform for the tank is on solid (compacted) stable free draining ground. The level site must extend a minimum of 300mm greater than the diameter of the tank and must be cleared of any sharp projections such as rocks, stones, or roots. Because ribbed tank walls allow for the weight to be distributed over the largest possible area (31,000 litres = 31 metric tonnes) the tank must sit on a level flat site. If you are placing a smaller tank on an elevated structure (i.e. deck or tower) an engineers report must be made available to the tank manufacturer for approval prior to installation. Always check with your local council to ensure you meet current requirements.

A uniform 100mm minimum depth compacted sand bedding must be contained such that it cannot be washed or eroded away. A timber or concrete retaining nib wall is required to retain the sand or progressively mixing/washing into any surrounding soil. **Failure to do so will void the warranty.**

Where the tank is being placed on sloping ground a flat level area at least 600mm greater than the tank diameter must be excavated and a retained sand bed as described above constructed. The high side of the tank must be retained to hold soil from collapsing against the tank. Drain coil or similar drainage material must be used around the wall face and drain away from the tank site to ensure the tank base material is not eroded. **Failure to do so will void the warranty.**

Placing the tank on a level concrete pad is acceptable, however the pad must be suitably constructed such that it will support the tank weight (full of water) without the possibility of cracking or sheering and ultimately presenting an uneven surface to the bottom of the tank which could ultimately result in its failure. **This occurrence will not be covered by warranty.**

3. Tank Installation:

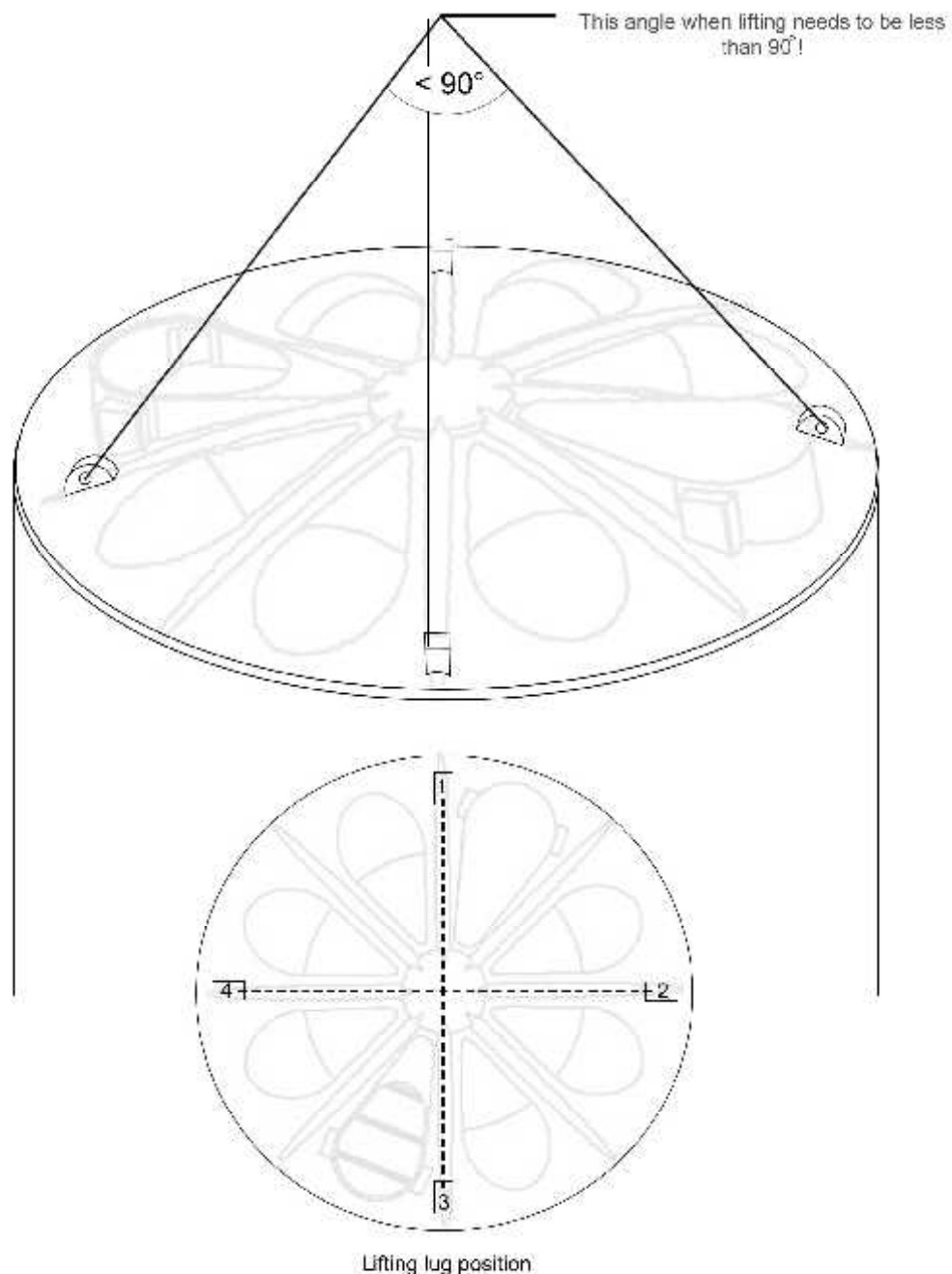
Once the tank has been carefully placed in position without disturbing the compacted sand base ensure that there are no visible gaps between the bedding sand and bottom of the tank – if so, fill the gaps.

IMPORTANT:

When using lifting equipment **ensure all tank lifting points are used with an angle of less than 90° at the apex of lifting ropes or chains.** Always lift the tank empty. Failure to do so will cause damage and void the warranty.

(refer drawing on next page)

Tanks must be empty prior to lifting. Occupational Safety and Health regulations must be used when lifting tanks. All 4 lifting lugs must be used with an angle of less than 90° at the apex

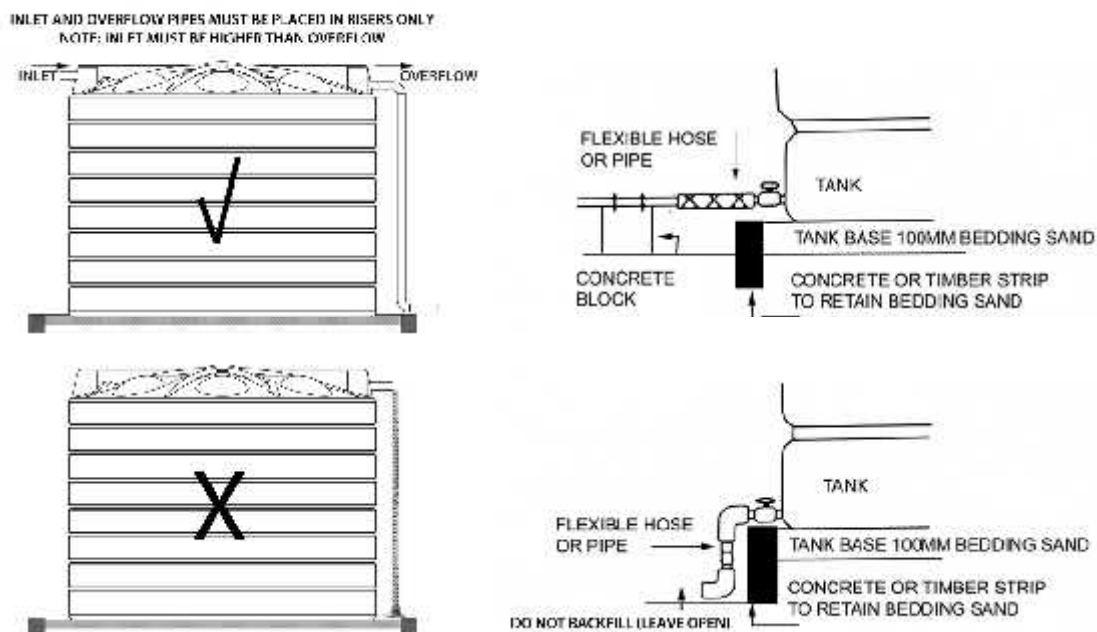


All tanks whether gravity-fed or pressure-fed through a ball valve, float, or other such system must be fitted with an overflow pipe, or pipes to equate to a size greater than 25mm diameter more than the inlet pipe(s) – a minimum of one overflow must be fitted for each inlet pipe. In all installations the overflow pipe(s) must be at a point lower than the inlet pipe(s) to allow the overflow to operate prior to the tank overflowing. **Failure to meet these requirements will void the warranty.**

All inlets and outlets must be cut out with a hole-saw in the designated areas (i.e. in either of the two manhole riser structures). All external pipework must be fully supported. Do not allow the weight of suspended pipework to rest on the wall or roof of the tank without being adequately supported. Do not allow the weight of any pipework to bear on the pre-threaded outlet without being adequately supported (refer instructions on outlet flexible hose). **Failure to meet these requirements will void the warranty.**

All overflow pipes must be plumbed to run water at least 300mm away from the contained base material area to where sand and soil are not likely to be eroded or undermined. **Failure to do so will void the warranty.**

Do not cut any holes or mount any fixture in the tank walls or domed roof other than the designated reinforced areas described above, without prior written approval from the manufacturer. All holes for inlets and overflows must be cut using correct tools (hole-saw). **Failure to do so will void the warranty.**



4. Connecting the Tank Outlet:

BSPT (tapered) fittings must be used when connecting to the outlet. It is recommended that a thread sealing tape be used on all threads to avoid leaks and subsequent foundation erosion. Care must be taken when tightening all fittings – do not over tighten (over tightening of tapered thread fittings may result in stripped threads or undue expanded stress on the fittings and/or the tank material). Always secure the pre-threaded tank outlet fitting with a spanner when tightening other fittings into this aperture.

A section of flexible hose must be used between the tank outlet fitting and main feed line away from the tank. Ensure all above ground pipe work is supported level with outlet fitting as shown (refer diagrams below).. If buried Alkathene pipe is to be used then a section of flexible pipe must be fitted immediately from the tank outlet before the main line is buried. Any pressure, loading, twisting or bending on the outlet pipe work or tank fitting area must be avoided and may result in tank failure. **This occurrence will not be covered by warranty.**

5. Safety:

Tanks, including domed roof areas are not designed to be walked on other than to enter the man hole entrance, regularly checking inlets, overflows, and breathers are clear of debris or to fit a water vane. Do not enter the tank if working alone. **Do not allow children to climb or play on tanks.**

6. Ongoing Maintenance:

Should the foundation settle slightly when the tank is initially filled with water, and in many cases it will, polyethylene is sufficiently elastic to conform to the ground shape without damage to the tank. However erosion of the bedding sand from around the wall edges must be replaced and the cause of such erosion eliminated. **This could cause failure of the tank and void the warranty.**

Ensure overflow pipes and breather pipes never become restricted or blocked as excessive pressure build up in the tank could cause failure of the tank. (if you are situated in an area with excessive or extreme rainfall patterns additional overflow pipes and breathers are recommended to help relieve your tank in these instances. **Failure to meet these requirements will void the warranty.**

As part of your regular on-going maintenance programme check for any obvious signs of damage to the tank, foundation, and pipe work and attend to any repairs that may be necessary as quickly as possible. The majority of water tank failures are as a direct result of poor or incorrect installation and/or lack of regular maintenance. It is your responsibility to look after the product and to hold any warranty and purchase information in a safe place. In the event of a problem you will be asked to provide specific information and photographic evidence as part of a claim process. Failure to supply this information may compromise any claim.



WARRANTY REGISTRATION FORM:

After your tank installation has been completed you are required to complete and return the following information to us so we can register your details and warranty cover.

Failure to return this completed form will result in no Warranty cover.

Name: _____

Address: _____

Phone : _____ Mobile: _____ Email: _____

Tank Size: _____ Colour: _____ Serial Number: _____

Purchased From: _____ Date: _____ Invoice No: _____

Delivered to: _____ Date: _____

Tank Purchased for: Rural / Farm Holiday Home Lifestyle Block

Urban Dwelling Business / Industrial

Installed by: Self Plumber / Professional

Supplier Other

Name of Installer: _____

Date of Installation: _____

Product in Tank : _____

I confirm I have read, understood, agreed with, and complied with the Warranty Conditions and Installation Instructions and requirements.

Name: _____

Signed: _____ Date: _____

Please return to:

Aqua Tank Division,
Galloway International Limited,
P O Box 58 632
Botany
Auckland 2163