A Division of Galloway International Limited

# 5 YEAR WATER TANK WARRANTY

## HZ00500 - HZ03000 Horizontal Water Tank
### Water Tank Warranty Conditions & Installations Instructions

### A Division of Galloway International Ltd
### PO Box 58 632 Botany 2163, Auckland

Congratulations on your purchase of an Aqua Tank Product. Please insure your tank is installed correctly in accordance with the following instructions and conditions.

**1. Warranty:**

Galloway International Ltd (herein referred to as "the Company") manufacturers of Aqua Tanks, hereby warranty the quality of the tank purchased to the original retail customer for two (2) years from the date of purchase against any defect in material and workmanship and thereafter for an additional three (3) years on a pro rata basis.

This warranty applies to the tank being used for **Water Only**.

**In the event of a claim being lodged you will be required to:**

- Provide proof of purchase
- Provide tank serial number
- Provide proof that these installation instructions have been adhered to
- Confirm that the tank has not been disconnected and relocated following initial installation

Check your tank carefully on receipt for any damage sustained during delivery and notify us of any damage immediately. Handle your tank with care – polyethylene is tough but not indestructible.

**2. Warranty Conditions:**

2.1 The Company warrants that your tank will perform the function for which it is designed. Namely, to hold potable water for a period not less than five (5) years from the date of purchase subject to the conditions, installation instructions & site preparation requirements detailed herein.

2.2 Not withstanding any obligatory requirement under the consumer guarantees act, where the tank fails to perform its function as a result of faulty manufacture within the specified period of time, the Company shall at its discretion either:

a) Repair the tank at no cost to the customer.

b) Replace the tank with a new tank at no cost to the customer on the same basis as the original sale, i.e. 'delivery to the property'. Galloway International Ltd will not be responsible for costs incurred in getting the tank onto the tank site or replacing plumbing, the contents of the tank (water), fences, paths or other structures.

c) Where the tank is more than 12 months old, replace the tank with a new tank. The cost to the customer will be the current list price reduced on a pro-rata basis, calculated by dividing 5 years by the length of time from purchase until the date of the warranty claim.

**In all cases the faulty tank must be available for return to the Company without any further damage, unintentional or not, being administered to the tank. Damage to the tank subsequent to a claim inspection may be charged to the customer.**

**Note: These instructions apply to the Aquatank HZ00500 & HZ03000**
**For above ground and buried installations.**

## 3. Site Preparation:

3.1 Prior to installing your tank, ensure all necessary approvals or permits have been obtained from your local Council. If the tank is to be installed close to foundations or walls of a building ensure that engineer's reports and approvals are obtained. The tank must have at least 50mm clearance around all surfaces to allow for expansion and contraction of the tank. Locating your tank in a shady area will help keep the water cool and extend the life of the tank.

3.2 Firm, level foundations are required. Ensure the platform for the tank is on solid (compacted) or stable (free draining) ground. The site must be level and clear of any sharp projections such as rocks, stones or roots.

3.3 All tanks must be fitted with an overflow pipe of a minimum 75mm diameter or no less than the diameter of the inlet. The overflow must be piped at least 300mm away from the foundation to where sand and soil are not likely to be eroded, such that they undermine the foundation material at the base of the tank. **Failure to do so will void the warranty**. Note: An overflow pipe is necessary even when a ball cock valve is fitted to the inlet.

3.4 The inlets and overflows of the tank must be cut out with a hole-saw in the designated areas, see diagram. All external pipe work must be fully supported. Do not allow weight of suspended pipe work to rest on the wall of tank without being adequately supported.

3.5 50mm(2") 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 fittings. Do not over tighten into the pre-threaded tank aperture; always secure this fitting with a spanner when tightening other fittings into the main tank fitting. **Any alterations to outlet size must be done by the manufacturer prior to installation. Failure to do so will void the warranty.**

3.6 When lifting the tank, ensure it is empty and all lifting points (located on tank top) are used to lift the tank. **Failure to do so will cause damage to the tank and void the warranty**. Care is required when using a mechanical digger or machinery to manoeuvre the tank as the tank can be damaged through careless handling.

3.7 In areas where livestock have access to the tank, the area surrounding the tank must be fenced to a minimum of 1.0 metre from the tank, to avoid any damage to the tank wall.

3.8 Tanks, including their domes, are not designed to be walked on, other than to enter the man hole entrance or fit a water vane. Doing so could cause damage! Do not allow children to play on tank domes or lids. For safety reasons it is recommended that the lid is secured with the screw that is supplied to stop unauthorised entry to your tank.

## 4. On Ground Tank Installation:

4.1 A uniform sand bedding of 100mm depth is recommended. The sand bedding must be contained under the tank such that it cannot be washed away. A concrete or timber-containing strip is advisable. Once the tank has been placed in position, ensure that there are no visible gaps between the bedding sand and the bottom of the tank. If so, fill the gaps.

4.2 Placing the Tank on a concrete base pad is acceptable however, the pad must be constructed such that it will support the tank full of water, without the possibility of cracking and ultimately presenting an uneven surface to the bottom of the tank. Substantial sheering in the concrete base will cause significant stress to the tank bottom, which could ultimately result in its failure. **This occurrence will not be covered by the warranty.**

4.3 Because ribbed tank walls allow for the weight to be distributed over the largest possible area, it is recommended that the tank is located on a level ground location. Should you be required to locate the tank on an elevated structure (i.e., deck or tower) an engineer's report must be made available to the tank manufacturer, prior to installation, for approval.

4.4 Do not cut any holes or mount any fixture in the tank walls, other than in the designated reinforced portions of the tank, without Galloway written approval. **Failure to do so will void the warranty.**

4.5 A flexible hose or pipe must be placed between the outlet fitting of the tank and the supply line to the pump as close as possible to the tank. (see diagram over page) This pipe is to compensate for expansion and contraction of the tank, and/or any pump vibration, surging, or pressure variance.

4.6 In areas prone to strong or gusty winds (e.g. hilltop locations), stabilising wires must be located through the lifting eyes (located on tank top) and secured to the ground, particularly where the water level in the tank may vary considerably.

4.7 In areas prone to rabbit or other burrowing animals it is advisable to bury wire mesh to a minimum depth of 600mm in a narrow trench around the foundation perimeter.

## 5. Buried Tank Installation:

5.1 The 1900 and 3000 litre horizontal tanks are designed for buried installations also. The tank base can be set up to 1.9m below the ground level.

5.2 The buried tank is best placed away from where traffic passes over or where the tank may be subject to heavy loads. The tank site must be fenced from stock.

5.3 If motor vehicles are to pass over or to be located within 1.5m from the tank perimeter then a supplementary reinforced concrete slab will be required to protect the tank and lid. A separate engineer's detail will be required for this to combat the effect of excessive overburden pressure.

5.4 The buried tank will have to be protected against floatation. 600mm depth of 1750kg/m3) compacted hardfill above the tank crown is sufficient.

5.5 Additional anti-floatation tie-down devices will be required if sufficient hardfill is not used. Each tank has suitable tie-down points. A length of 40mm Galvanised Pipe longer than the tank length inserted through the lower tie down points, surrounded with compacted hardfill will assist resisting floatation. A separate Engineers detail will be required for this.

## 6. WARNING: Ensure you read installation instructions prior to installing tank. Failure to follow instruction will void warranty.

6.1 **Location:** Prior to excavation ensure all necessary approvals and permits have been obtained from your local Council. If the tank is to be installed close to foundations or walls of a building ensure that an engineers report and approval are obtained.

6.2 **Excavation:** The excavation is to be of sufficient size in both depth and width to allow completion of a 150 mm drainage scoria or other similar specified hardfill layer across the flat base of the tank to a level above the bottom rib and to allow compaction around all sides. The tank should fit easily into the hole to rest on the prepared base without being forced and with clear space around the sides of the tank unit. Suitable hardfill, non plastic G.A.P 40, Scoria SAP 40, or other hard granular fill suitable for use as hardfill under concrete slabs such as rounded gravel or crushed rock with no stone size greater than 40mm. Compact hardfill around tank. This free-draining hardfill should have a density of not less than 1750kg/m3.

6.3 **Handling:** The tanks are relatively light (under 200kgs) and in most cases should be able to be lifted into position manually. Care must be taken when handling and positioning the tank in ground. Ensure all lifting points (located on tank top) are used when manoeuvring the tank by machine. Do not stand under the tank while it is suspended.

6.4 **Inspection area:** When positioning the tank in the excavated hole, an inspection box must be provided to permit inspection and repair of the outlet fittings and pipe work.

6.5 **Backfilling:** Before backfilling commences the tank is to be filled with water. Backfiling is then to be carried out in three stages as follows.

**Stage 1:** Install a buttress with suitable hardfill material from tank base up to 450mm (1/3 the tank cylinder height) ensuring all contours and cavities are filled and compacted. If the lower antifloatation points are utilised, then hardfill and compact accordingly.

**Stage 2:** Backfill up to 900mm from the tank base (2/3 the tank cylinder height) with soil. The use of clay or high clay content soil is not acceptable

**Stage 3:** Complete the remaining backfill using suitable hardfill completely covering the tank cylinder, again ensuring all contours and cavities are fill and compacted. If the higher antifloatation points are utilised, then hardfill and compact accordingly.

**Stage 4:** Installation instructions must be followed as per detailed diagrams and instructions.

## WARNING:

## The following will void the manufacturers warranty:

(a) Any installation or penetration of a tank not carried out in accordance with these installation instructions.

(b) Any use of a tank to hold liquids not specified or endorsed by the manufacturer.

(c) Impact damage to the tank or placing of the tank under any unauthorised loading for which it was not designed.

(d) Failure to comply with installation instructions and diagrams.

(e) Failure to comply with drainage and servicing instructions.

**Please note the following!** Aquatanks underground tanks are a strong yet lightweight product and care should be taken when choosing a suitable site for your tank. Areas with a high water table, that are constantly sodden or prone to flooding, are not recommended.

Garth Galloway
Managing Director