



DELIVERY & INSTALLATION



Installation Requirements

GUIDE ONLY



✓ CORRECT METHOD

N.B. You must acquire professional assistance when preparing a base for your tank, when preparing a tank stand, when placing the tank on a stand, when preparing a pad in the ground and placing a tank in the ground.

1. Prepare Base

- Every site must be checked to ensure that surface is flat, level and free of any matter such as tree roots or stones.

CONCRETE

- Prepare a reinforced concrete pad that is flat, level and 200mm greater than the diameter of tank. The thickness of the slab should take into account the soil material that you are preparing the base on and the weight of the tank when full. The weight of a full water tank can be calculated roughly with the equation 1 Litre = 1 Kilo.
- The reinforced concrete slab must be at least 25mpa and 100mm (4") thick with F62 mesh halfway through the mix. The surface should be finished smooth and level and it is recommended that the slab be swept prior to the tank being put in position.
- The base should have some sort of retainment to prevent erosion such as retaining beams.
- Tank can be tipped onto pad from the truck or trailer (access permitting) ONLY according to company systems OR manoeuvred by equipment (equipment hire at purchaser's expense) if truck access to site is denied due to area conditions.
- It is essential that your tank be filled with at least 2.5cm of water or tied down to prevent movement or blow away of tank.

CRUSHER DUST

- Prepare an earth ring approx. 300mm to 400mm greater than the diameter of the tank.
- Remove approx. 100mm (4") of earth out of the earth ring always ensuring the base is flat and level.
- Re-fill the dugout area with 100mm (4") of crusher dust thoroughly mixed with dry cement powder (about 2-3 bags).
- Ensure the area is uniformly compact with compacting equipment, not by any other means. Re-Check the pad is flat and level. If there are any low spots add more material in required areas and re-compact.
- Ensure the area is screeded flat and level and free from any sharp or protruding objects such as rocks, tree roots etc.
- Once pad is flat and level do not add water, place the tank on pad and let natural moisture set the cement.
- It is important to check base regularly to ensure it has settled level and flat. It is important to make sure the pad is flat and level at all times.
- Tank can be tipped onto pad from the truck or trailer (access permitting) ONLY according to company systems OR manoeuvred by equipment (Equipment hire at the purchaser's expense) if truck access is denied due to area conditions.
- It is essential that your tank be filled with at least 2.5cm of water or tied down to prevent movement or blow away of tank.

PLEASE NOTE: Sand is not acceptable as it is washed away easily with heavy downpours and animals can undermine the base.

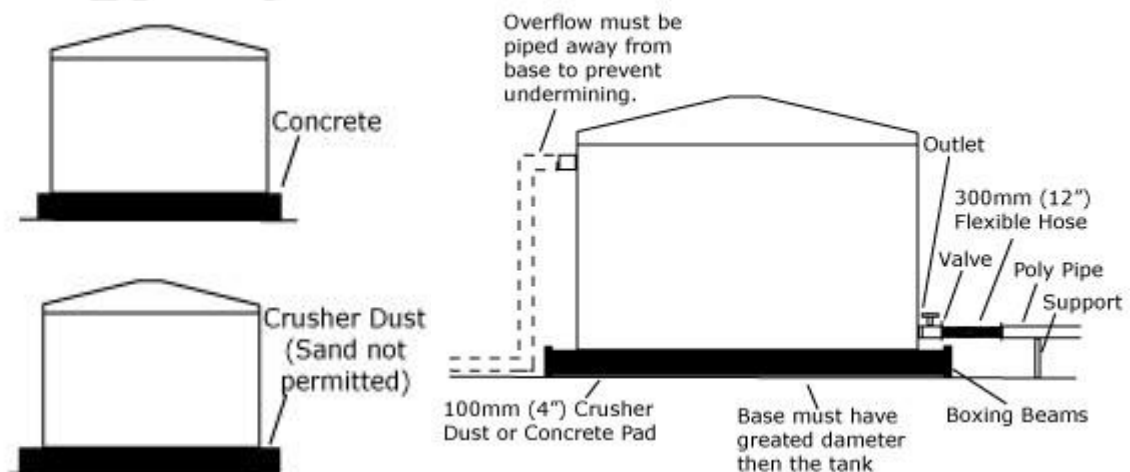
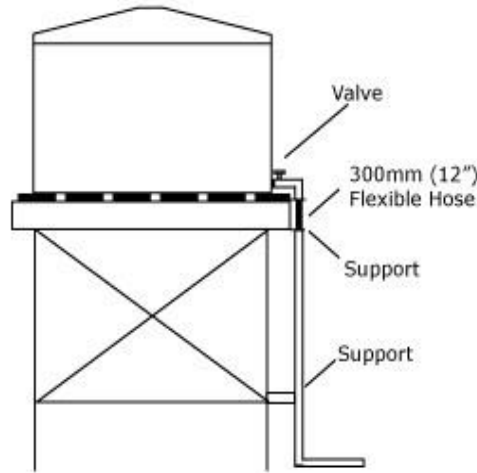


FIGURE 1**FIGURE 2****TANK STAND**

- Tank stand must be constructed to hold the weight of a full tank. The weight of the tank when full can be calculated roughly with the equation 1 Litre = 1 Kilo + weight of the tank.
- Use a base of hardwood decking with gaps no greater than 10mm. Decking must be supported structurally by bearers strong enough to prevent any sagging of decking when tank is full.
- Empty tank must be lifted into place by crane (Equipment hire at purchaser's expense).
- Pipe work for tanks on stands must be supported by the stand, not the tank. Flexible hose should be used to allow for any movement.
- It is essential that your tank be filled with at least 2.5cm of water or tied down to prevent movement or blow away of tank.

**FIGURE 3****IN GROUND**

- The depth of the hole (once bedding in place) must not be any greater than $\frac{1}{3}$ of the tank wall height or 1 meter into the ground whichever is less.
- The hole must be dug 300mm wider than the diameter of the tank. A separate hold must be dug for each tank.
- Ensure that the surrounding soil left in the walls of the hole is solid, leaving a 300mm gap to allow positioning of tanks and backfilling with sand. (If there is major water seepage into the hole from the surrounding soil this site will not be suitable).
- Prepare a tank base as per concrete or crusher dust base installation guide (on page 1).
- The empty tank must be lifted into the hole squarely and level by a crane (Equipment hire at purchaser's expense).
- Tank must then be filled completely and hole back filled with bedding sand. The top 150mm can be filled with fresh soil.
- Ensure that the tank is buried evenly on all sides to ensure pressure is evenly distributed against the walls.
- It is essential that your tank be filled with at least 2.5cm of water or tied to prevent movement or blow away of tank. We suggest that you erect a fence surrounding the inground tank for safety reasons.

2. Water outlet / fittings

A Flexible hose MUST be fitted to each outlet to validate the warranty.

- Flexible hose 300mm (12") in length must be placed between the valve and other plumbing including pumps and pipes.
□ Support all pipe to minimise strain on fitting and tank wall (see figure 4).
- When pipe is exposed over a long distance, insert a flexible hose between the fittings and pipe to absorb any movement (see figure 5).
- Take pipe directly into ground to avoid running over pipe and breaking fitting (see figure 6).
- Overflow must be piped away from the tank to prevent undermining (see figure 2).
- When fitting pipe to a tank stand the pipe must be supported by the tank stand, not the tank (see figure 3).
- When pipe work is exposed over long distances, insert a length of flexible hose to absorb shock and movements.
- Pipe must be supported. If not, this may cause water leakage and damage to the tank.
- The size of the overflow must be the same or greater than the inlet. If you have 1 x 90mm overflow in your tank you cannot have any more the 1 x 90mm downpipe filling you tank.

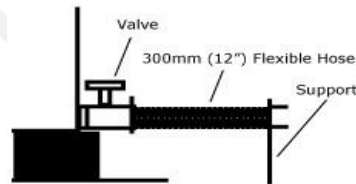


FIGURE 4

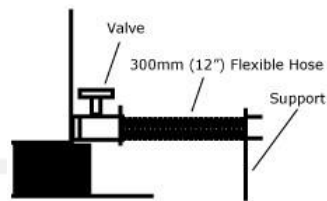


FIGURE 5

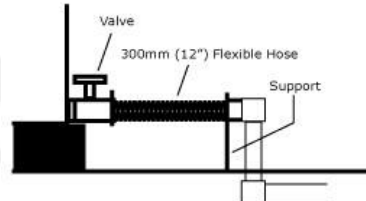


FIGURE 6

3. Inspect Regularly

- It is your responsibility to maintain you tank and ensure it is kept clean. The roof of the tank must be kept free of leaves or other debris and the strainer inlet must be kept free of obstructions. Overflow caps must also be kept clean.
- Regular inspections must be conducted to check for any undermining, cracks or borrowing (mice and toads etc). Check pad is flat and level and has not sunk. NOTE: The pad must be flat and level at all times.

4. Do Not

- Rocky or uneven ground with little preparation causes undermining of the tank base and sharp objects can protrude through tank.
- Inadequate overflow length will cause undermining of tank base.
- Corrugated iron decking, timber sleepers, bricks and tyres and other objects are NOT PERMITTED to be used in or as a tank base. This type of base should not be used under any circumstance. It is unsuitable and dangerous.

These recommendations are only a guide only and the manufacturer does not warrant that these are relevant and accurate to all customers and all tanks. You must seek professional assistance when preparing a site for your tank. Nu-Tank accepts no responsibility negligence or otherwise for the loss or damage to tanks during or as result of movement and installation notwithstanding that the customer has relied upon and followed the recommendations contained herein.

DELIVERY

We will assist on site with tank **ONLY** if you have your site **READY AND ACCESSIBLE** for the **TRUCK AND TRAILER**. Your Nu-Tank will be delivered to most areas on site free of charge, access permitting. We will need a clear, flat area to unload the tanks. It is your responsibility to ensure we have clear uninterrupted access to the site. Maximum access required will be for a 16.5T vehicle **19m long, 3.45 wide and 5m high, the truck will need a minimum of 50m turning space - you MUST inform us prior to delivery if sufficient access is unavailable**. Products are delivered on one of our trucks or a truck and trailer, depending on loads required for your region at the time. Please check that all gates, roundabouts and overgrown bush life are accessible so that we are able to deliver your products to the required location without damage occurring. Roads should be checked to ensure they will accommodate the size and weight of our vehicles and you must inform us immediately if roads are not accessible for any reason including but not limited to wet weather, narrow or low bridges or fencing. Products are only delivered free of charge once, the supply of incorrect information regarding road and accessibility conditions resulting in the product being brought back to the factory will incur a delivery charge for all future deliveries of that product. Supply of incorrect information regarding roads and accessibility resulting in damage caused to property will not be warranted by Nu-Tank or QLD Transporters and the company will hold no liability as a result. You **MUST** let us know if you cannot accommodate a semi-trailer at your property so we can arrange delivery appropriately. If delivery cannot be made to site for any reason, the product will be unloaded at the closest possible location - if you require hire equipment to move the product this is at the purchaser's expense.

ASSISTANCE REQUIRED: Please note that if other equipment must be used during delivery, hire of this equipment is at the purchaser's expense. **The driver is not responsible for positioning the tank.** Nu-Tank and QLD Transporters will unload the tank from the delivery vehicle as close as possible to the customer's desired location as it is safe to do so at which point Nu-Tank and QLD Transporters job is complete. **Any movement of the tank from that point forward the customer shall be liable for any additional, cost, charge, damage or injury incurred to any party present.** The company recommends that you acquire professional assistance when moving tanks although, if you intend to position and/or move your tanks following the unloading by delivery drivers, we recommend the following number of people present to assist you. When positioning Molasses Tanks deliveries will require at least 1 extra person to that listed below to assist in delivery for each size.

ALL PRODUCTS DELIVERED REQUIRE AT LEAST 1 PERSON TO BE PRESENT FOR DELIVERY – FOR ANY MOVEMENT OF TANKS WE RECOMMEND THE FOLLOWING NUMBER OF PEOPLE TO ASSIST YOU.

30Gal - 2,200Gal	= 1 Person
3,300Gal - 5,500Gal	= 3 People
6,200Gal	= 4 People
10,200Gal	= Machine Assistance.

Positioning Round Poly Tanks: When rolling or moving the tank into position beside the slab or stand take care not to roll over any objects that may cause damage and take care not to damage the fitting or its thread, Nu-Tank/QLD Transporters takes no responsibility for this.

NOTES

1. The driver has the final decision to assess suitability of the site and will place the tank as near to the pad as safely possible if the driver considers the site to be unsafe if not easily accessible.
2. The driver will attempt to call you prior to delivery although failure to answer these calls will result in the tank being dropped off at delivery location you have supplied to the company or taken back to the factory (delivery is only free of charge once per tank).
3. Nu-Tank and/or its agents do not take any responsibility for the preparation of the tank base or the installation of its products. It is the sole responsibility of the purchaser, or their agent to ensure that the product is installed in accordance with these instructions, and maintained on an ongoing basis.

CHANGES: Dimensions and capacities given are approximate only; natural variations in shrinkage can vary some dimensions by $\pm 40\text{mm}$, depending on the size of the tank. In the interests of continually improving our products, and service we reserve the right to change specifications on our products, guides and warranties without notice.

LIFTING POINT: Each tank is to be lifted through the breather at the top of the tank, or if none present (as is one smaller tanks/products) through the inlet.

You indemnify us against any loss, damage, cost, expense, claim, proceeding or liability of any kind that we (or our personnel) may incur, that arises out of or in connection with, the delivery of your product (including all persons presents failure to comply with delivery instructions listed on the installation guide), incidents arising from your instruction or direction or the lawful exercise of our rights pursuant to these Delivery Instructions.

The company will not be held responsible for damage caused to the product or property by these factors and other factors, which are beyond our control.

Please do not place objects on the top of the tank, do not screw anything to the tank. Do not sit, stand or walk on top of the tank.

DEFINITION

Equipment/Machinery can be defined to include items such as crane, 4WD tractor hire, backhoe hire, front end loader etc.

***** INCORRECT INSTALLATION WILL VOID YOUR WARRANTY *****

Call the office on (07) 4923 1111 if you have any questions or concerns about installation requirements.