

Preparing for your tank

Decide on Your Plumbing Fittings

Please advise prior to delivery if you need any extra fittings or valves and the driver will bring them. If your local council requires a pressure tested valve, these can also be supplied for an additional charge. Purchase of all other plumbing fittings and pipes are the responsibility of the purchaser.

When plumbing your inlet, overflow or outlets please be aware your poly tank will expand and contract during service. Typical plumbing fittings of PVC or metal are relatively rigid and inflexible. When making your plumbing connections, ensure you allow for your poly tank to move from its original position.

Please note our guarantee specifies a 300mm flexible hose be fitted to the outlet.

Delivery

We will deliver within our delivery areas, **provided conditions are met** per the check lists for **on-site delivery** or **roll-off delivery**. Bushmans will telephone to confirm the delivery date, allowing plenty of time to prepare.

If the Bushmans truck arrives to deliver your tank, and there is insufficient assistance or unsafe access to unload, then the tank will not be left at the site. Bushmans will automatically attempt delivery again at the customer's cost.

Safe Access

Our truck may be up to 21 m long, 2.5 m wide and 5.2 m tall, depending on loads required for your region at the time. If you cannot accommodate a semi-trailer at your property you must advise so we can arrange delivery with a different vehicle.

Prior to delivery check gates, roads, roundabouts, crossings and overhanging trees on your property so that we can deliver your tank without damage. Provide safe access by ensuring that the area to unload the tank is level and clear of building material. It must be possible to roll the tank to the installation site without damaging the tank. Please note that if a crane or other equipment must be used during delivery, hire of this equipment is at the purchaser's expense.

Organise Assistance

Our driver will need help to unload your tank from the truck, therefore, could you please have able-bodied people available to assist at time of delivery. Drivers will not unload or transport the tank to the installation site if insufficient assistance or unsafe access is provided. If assistance cannot be provided then hire or use of any equipment is at purchaser's expense i.e crane hire, 4WD tractor hire, backhoe hire, frontend loader hire. Our drivers and service people are not allowed to work at heights and therefore cannot assist in placing or servicing tanks on stands.

Secure Your Tank

When your tank arrives you must put at least 25 mm (1") of water into the tank or otherwise secure your tank from being blown away. Bushmans take no responsibility for tanks being damaged in this manner.

Tank fitting for roll-off delivery

Step 1

Position tank, make sure tank pad is level.

Step 2

Mark outlet position on tank.

Step 3

Drill outlet hole to suit tap or gate valve fitting with either a 22mm spadebit, or a 46 mm (1 inch outlet) or 63 mm (2 inch outlet) holesaw.

Step 4

Next use 98 mm holesaw to drill out overflow as per Overflow Installation leaflet in the kit. The overflow must be positioned in the middle of the flat spot.

Step 5

Insert overflow elbow into drilled hole until seal touches tank wall and screw into place using supplied screws. Push 'mozzie' screen or overflow strainer into overflow outlet hole until it bottoms out.

Step 6

Remove strainer screws and remove strainer.

Step 7

Place conduit in strainer hole, feed it through drilled outlet hole.

Step 8

To insert brass fitting in outlet, undo nut off outlet and slide outlet and washer down conduit. Pull through from outside.

Step 9

Screw nut on and tighten firmly by hand (left handed thread).

Step 10

Place thread tape onto outlet thread and fit ball valve. Tighten with multigrips.

Step 11

Loosen off hand tight outlet nut and move ball valve into upright position. Tighten outlet nut with multigrips.

Step 12

Place strainer back into tank and screw back in to place so it is sealed and vermin proof.

Step 13

Assemble flex hose using thread tape and attach elbow to ball valve.

Safety warning

Do not work alone or enter tank. This is a confined space. Always wear safety gear and safety eye glasses when drilling.

Tools for site preparation and tank fitting

- Pick, shovel, crowbar, level
- Drill, hacksaw
- Hole saws and arbour:
 - 98 mm (overflow)
 - 63 mm for 2 inch or 46 mm for 1 inch (outlet)
 - 22 mm spadebit for 1 inch moulded outlet.
- Multigrips

- Thread tape (plumbers tape)
- Ladder
- Electrical conduit (12 mm)
- Phillips screwdriver bit

(Bushmans truck driver is trained to install tank fittings and carries tools required for tank fitting).



Easy 6 step Installation Guide

Congratulations on your choice of a Bushmans tank.

In the world's driest continent every drop of water is precious and every Australian needs to do their bit to save Australia's water. Your purchase of a Bushmans tank demonstrates your commitment to water conservation.

Bushmans have designed and manufactured your tank to give you long, trouble-free service. In the unlikely event that a manufacturing fault emerges, it will be fixed or replaced as per the Bushmans Guarantee. (See written Guarantee on the Bushmans website).

The important information in this Installation Guide will help you prepare for the arrival of your Bushmans tank. There are two types of delivery depending on your readiness and safe site access.

If your site is fully prepared and you provide safe access, then you can have your tank placed onto your prepared site. This is called an **on-site delivery** and it includes **tank fitting** by our driver. If you are not ready to install your tank or it is unsafe to place your tank on your chosen site, our driver will **roll-off deliver** your tank. (See check lists over).

Remember, your tank must be installed correctly to ensure long life – and so you do not void your guarantee.

If you have any concerns, please call Bushmans on **1800 00 88 88** or visit **bushmantanks.com.au**

On-site delivery

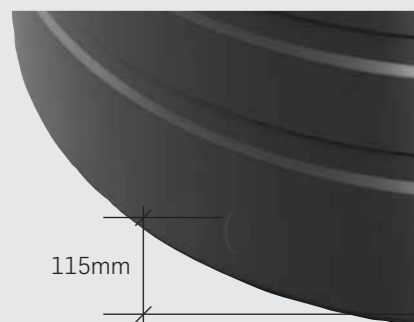
- ✓ **Check that you are prepared** for our driver to position tank, drill outlets and fit taps and seals. **(Tank Fitting)**
- There **must be** suitable and safe access as per *Preparing for Delivery* in this document.
- Site **must be** prepared as per instructions.
- There **must be** enough people present to assist with tank positioning, see table to the right.
- I am organised to instruct driver about outlet positions. (See diagram below)
- Water is immediately available to put 25 mm in tank to prevent blow-away.

Roll-off delivery

- ✓ Check that
- There **must be** suitable and safe access as per *Preparing for Delivery* in this document.
- There **must be** enough people present to assist with tank positioning, see table to the right.
- Water is immediately available to put 25 mm in tank to prevent blow-away.
- I note instructions for **tank fitting** for **roll-off** Delivery on page opposite.

Outlet position

Centre of outlet should be at a height of 115mm to ensure proper sealing.



Tank Installation – In ground sitting

Correct method

- 1 Before commencing, check for underground pipes and ensure excavation work does not infringe on the weight bearing capacity of adjacent structures.

Excavate the hole in depth to allow for 50-75 mm of bedding material and a maximum depth of 1/3 of the tank wall height. Excavate the hole in diameter to allow for a 150-200 mm gap between the tank wall and the surrounding soil.

The site is not suitable if there is water seepage or if the floor of the hole is unstable. Spread washed river sand into the hole and compact it with a plate compactor, to provide a firm level base. Check that no rocks, roots or sharp objects penetrate the sand base.

- 2 Tank must be lowered into the hole squarely by crane. (Crane hire at purchaser's expense).

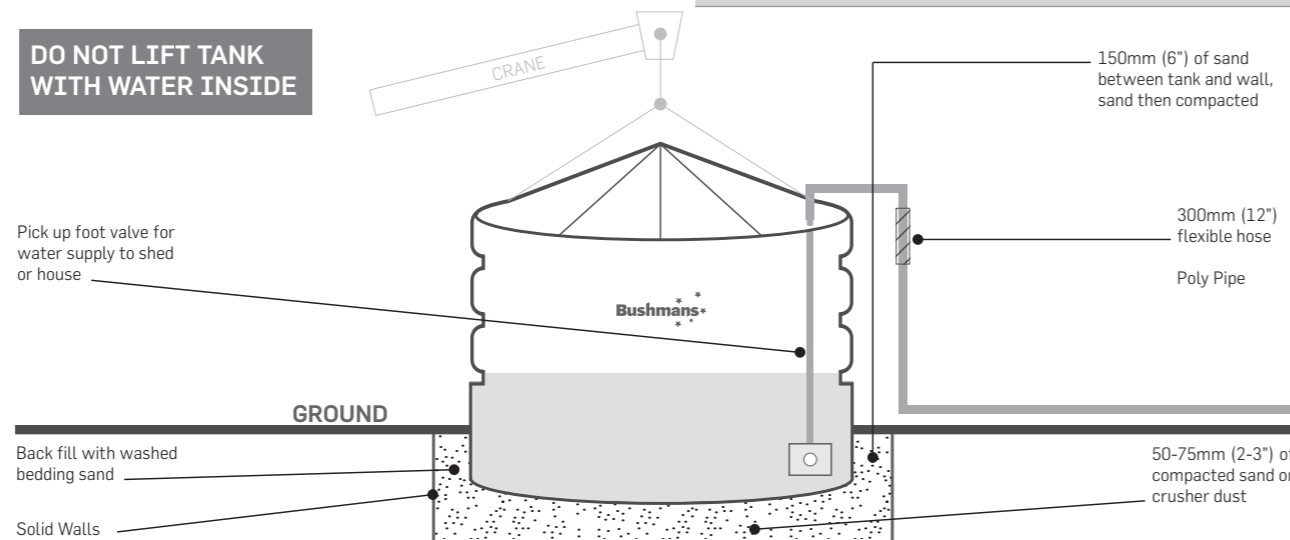
- 3 Prior to starting to backfill, the tank must be filled with water to a level marginally above ground height. The soil taken from the hole must not be used as the backfill under any circumstances.

Spread a 200-300 mm layer of sand around the base of the tank. Manually compact the sand ensuring that all the voids are filled. Continue adding the sand in 200-300 mm layers, ensuring each time that it is well compacted into all areas until it comes to within 150 mm of the surface. Restore the remaining 150 mm with fresh soil.

Step 4 continued to the right.

In ground sitting

DO NOT LIFT TANK WITH WATER INSIDE



IF THESE STEPS ARE NOT FOLLOWED GUARANTEE IS NULL AND VOID

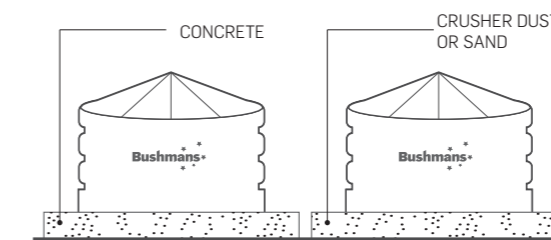
Tank model	Persons required to lift tank
TSL160	1 plus driver
TSL220	1 plus driver
TSL230	1 plus driver
T350	1 plus driver
TSL440	3 plus driver
T500	3 plus driver
TS540	1 plus driver
TT560	1 plus driver
TT650	1 plus driver
TSL660	3 plus driver
TS910	1 plus driver
TT1100	1 plus driver
TS2200	2 plus driver
TT2300	2 plus driver
T3300	2 plus driver
TS5000	3 plus driver
TT5300	3 plus driver
TS5500	3 plus driver
T6500	4 plus driver
T8400	5 plus driver
T10500	6 plus driver

TANK CANNOT BE UNLOADED WITHOUT REQUIRED ASSISTANCE.

Tank Installation – Above ground sitting on pad

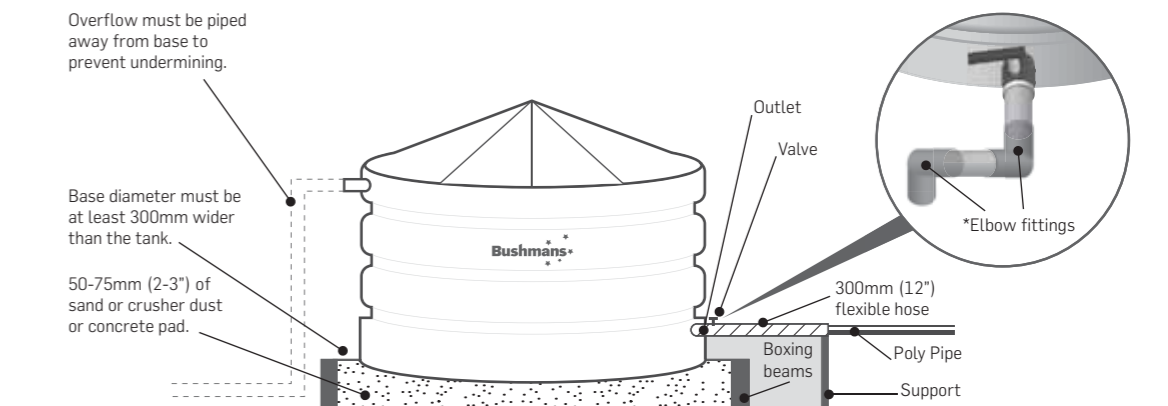
Correct method

- 1 Prepare a reinforced concrete pad that is level and at least 300 mm wider than the diameter of tank.
OR
Prepare an earth ring at least 300 mm wider than the diameter of the tank so that no part of the tank is bearing on the wall. Fill is to be consolidated fill with 50-75 mm (2-3") of sand or crusher dust on top surface.
- 2 Tank is rolled into position. (If positioning requires a crane this must be at purchaser's expense).
- 3 Tank must be tied down to prevent blow-away.



- 4 Water Inlet – Water should be directed into tank through the strainer. Fixed inlets must be supported and have flexible hose fitted (similar to outlet instructions). Inlet pipe must be supported by stand.
- 5 Water Outlet – Connect your outlet with flexible hose 300 mm (12") in length. The hose must be placed between the valve and all other plumbing or rigid pipe work. Elbow fittings must be used as shown below. Important: Water capacity of the inlet must equal water capacity of the overflow eg 2 x 100 mm (4") inlets = same capacity overflow.
- 6 Water Outlet – Overflow – Connect overflow. Water must be piped away from the tank.

Above ground sitting



IF THESE STEPS ARE NOT FOLLOWED GUARANTEE IS NULL AND VOID

Tank Installation – Above ground sitting on tank stand

Correct method

- 1 Prepare a stand that has hardwood decking with gaps no greater than 25 mm (1"). Decking should be supported structurally by bearers strong enough to prevent sagging of decking when tank is full.
- 2 Tank must be lifted into place by crane. (Crane hire at purchaser's expense).
- 3 Tank must then be tied down to the tank stand to prevent being blown away.

