Bushmans
SAVING AUSTRALIA'S WATER

CERTIFIED PRODUCT
AUSTRALIAN STANDARD
AS/NZS 4766:2006
BMP 557812 Terang
BMP 557813 Orange
BMP 557814 Dalby
BMP 557815 Cavan

DELIVERY & INSTALLATION GUIDE





- *Prepare for Delivery Info*
- *Delivery Methods*
- *Tools & Safety Requirements*
- *Step-by-step Installation*

Delivered & Fittings Installed

Made Locally in NSW, VIC, QLD & SA

10 Year Tank Guarantee

Bushmans CUSTOMER CARE

CHECKLIST

On-site Delivery

☐ Check you're prepared for our driver to position tank, drill outlets, fit taps and seals.

☐ Check there is suitable and safe site access *(see Preparing for Delivery).*

☐ Site must be prepared as per instructions.

☐ Check enough people are present to assist tank positioning *(see table 'assistance required' on following page).*

☐ I'm organised to instruct outlet positions *(see diagram below).*

☐ Water is immediately available to put 8 5mm in tank to prevent blow-away.

Fittings Installation

☐ Check there is suitable and safe site access *(see Preparing for Delivery).*

☐ Check enough people are present to assist tank positioning *(see table 'assistance required' on following page).*

☐ Water is immediately available to put 25mm in tank to prevent blow-away.

☐ Note instructions for fittings installation delivery *(see Preparing for Delivery).*

Outlet Position

☐ All low outlets should be centre of rib or as low as 115mm from ground level. *Note: T10500 model, the centre of the outlet should be 115mm from ground level.*

Tools Required

Fitting & Site Preparation:

·Suitable ladder, drill, 6m length rope, deburring tool, multi grips, electrical conduit (12mm), thread tape (plumbers tape), tape measure & marker.

·Holesaws and arbour: check fittings installations steps for details. *Outlets:* 54mm holesaw for 1"outlet, 73mm for 2" outlet.
Overflow: 95mm for 90mm overflow and 121mm for 100mm overflow).
Slimline Tanks: 25mm spade bit to drill into the 1" pre-moulded outlet.

· Phillips screwdriver bit (our driver is trained to install tank fittings and carries the tools required for fitting).

Tank Installation Steps

ABOVE GROUND

STEPS 1-3 (ON PAD)

1) Prepare a reinforced concrete pad that is level and 300mm wider than the diameter of the tank OR prepare an earth ring 300mm 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 50-75mm (2-3") of sand or crusher dust on the surface.

2) Roll the tank into position (Note: If positioning requires a crane, this will be at the purchaser's expense).

3) Secure the tank or fill it with 85mm of water to prevent blow-away (Note: No responsibility is taken for tanks being damaged in this manner) Go to STEPS 4-6.

STEPS 1-3 (ON STAND)

1) Prepare a stand with hardwood decking, ensuring gaps are no greater than 25mm (1"). The decking must be structurally supported by bearers strong enough to prevent sagging when the tank is full. Ensure the stand is engineered to hold the weight of the product at full capacity.

2) Lift the tank into place using a crane (Note: If positioning requires a crane, this will be at the purchaser's expense).

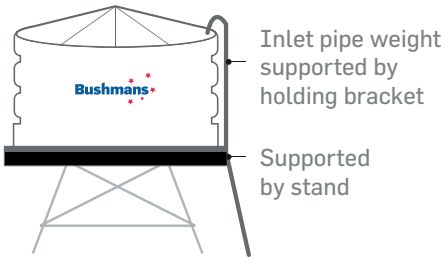
3) Secure the tank or fill it with 25mm of water to prevent blow-away (Note: No responsibility is taken for tanks being damaged in this manner). Go to STEPS 4-6.

STEPS 4-6 (ON PAD OR ON STAND)

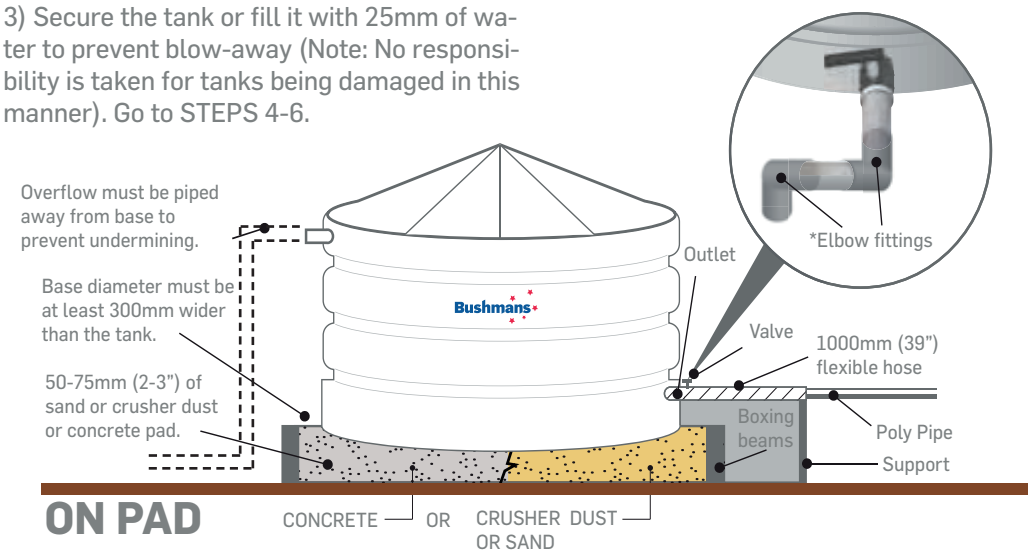
4) Water Inlet: Direct water into the tank through the strainer. Fixed inlets must be supported and have a flexible hose fitted (similar to outlet instructions). The inlet pipe must be supported by the stand.

5) Water Outlet: Connect your outlet using a flexible hose 1000mm (39"). The hose must be placed between the valve and any other plumbing or rigid pipe work. Elbow fittings must be used as shown.

6) Water Overflow: Connect the overflow. Water must be piped away from the tank. Important: Water capacity of the inlet must equal the water capacity of the overflow. For example, two 100mm (4") inlets = same capacity overflow).



ON STAND



ON PAD

IF THE STEPS IN THIS GUIDE ARE NOT FOLLOWED GUARANTEE IS NULL AND VOID

PLEASE NOTE: Your tank cannot be unloaded without required assistance (table on the final page outlines the extra number of people required onsite at the time of delivery to assist in positioning tank). Do not work alone or enter tank, this is a confined space. Always wear safety gear and safety eye glasses when drilling. Do not lift tank with water inside. Remember, your tank must be installed correctly to ensure long life, and so you do not void your guarantee.

IN GROUND

STEPS 1-6

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 50-75mm of bedding material and a maximum depth of 1/3 of the tank wall height. Excavate the hole in diameter to allow for a 150-200mm gap between the tank wall and the surrounding soil (the site is not suitable if there is water 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 (if positioning requires a crane this will be 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.

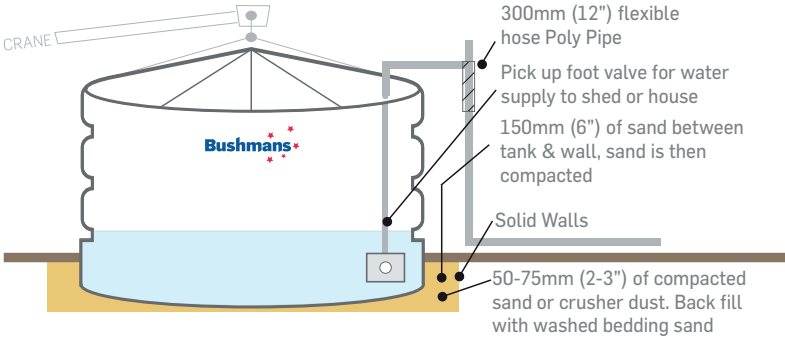
Spread a 200-300mm layer of sand around the base of the tank. Manually compact the sand ensuring that all the voids are filled.

Continue adding sand in 200-300mm layers, ensuring each time that it is well compacted into all areas until it comes to within 150mm of the surface. Restore remaining 150mm with fresh soil.

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 300mm (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 hown.

6) Water Overflow– Overflow – Connect overflow. Water must be piped away from the tank. Important: Water capacity of the inlet must equal water capacity of the overflow e.g. 2 x 100mm (4") inlets = same capacity overflow.



Fittings Installation Steps (Outlet and Overflow)

STEPS 1-10

1) Ensure the tank pad is level and position the tank. Mark the outlet position on the tank. Fittings on round tanks must be placed centre of bottom rib, and for slimline tanks drill out pre moulded outlet with spade bit.

2) 2)Drill the outlet hole at the marked position using the correct hole-saw for your chosen outlet size. For a 1" (25mm) brass external fitting use a 54mm holesaw, for a 2" (50mm) brass external fitting use a 73mm holesaw.*If you are not using external fittings, use 46mm holesaw for 1" and 63mm for 2".

For slimline tanks, use a 25mm spade bit to drill into the pre-moulded outlet. If you require a larger fitting, please contact Bushmans Customer Care before drilling.

3) Drill the overflow according to:

Overflow Assembly Kit 90mm	95 - 100mm holesaw
Overflow Assembly Kit 100mm	121mm holesaw

Refer to the Overflow Installation leaflet included in the kit. The overflow must be positioned at the centre of the top rib.

4) Insert the overflow elbow into the drilled hole until the seal touches the tank wall. Screw it into place using the supplied screws. Ensure the internal elbow is facing upwards. Push the mozzie screen or overflow strainer into the outlet hole.

5) Remove the strainer screws and take out the strainer, place the conduit into the strainer hole and feed it through the drilled outlet hole.

6)To insert the ball valve into the outlet, undo the nut off the outlet and slide the outlet and washer down the conduit. Pull through from the outside.

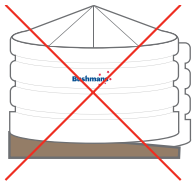
7) Screw the nut on and tighten firmly by hand (left-handed thread). Apply thread tape to the outlet thread and fit the ball valve. Tighten using multigrips.

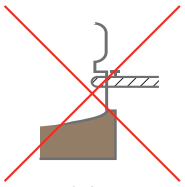
8) Loosen the outlet nut by hand, reposition the ball valve upright, and tighten the outlet nut using multigrips.

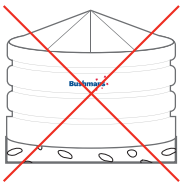
9)Place the strainer back into the tank and screw it securely in place so it remains sealed and vermin-proof.

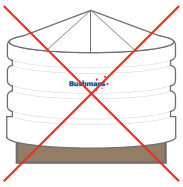
10) Assemble the flex hose using thread tape, then attach the elbow to the ball valve.

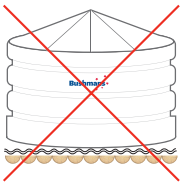
WARNING: THESE ERRORS WILL VOID YOUR GUARANTEE - DO NOT LEAVE TANK EMPTY, IT MAY BLOW AWAY


Tank base undermined, inadequqate overflow length.


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


Rocky and uneven ground with little or no base preparation.


Must not have undersized base. Cirumference must be supported.

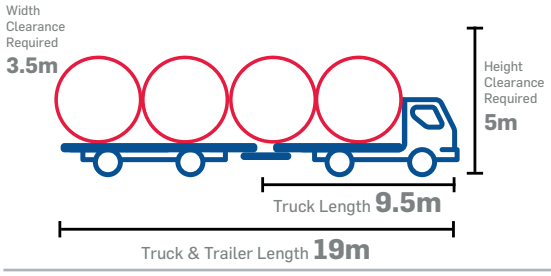

Don't use wooden sleepers or corrugated iron under tank.

PREPARING FOR DELIVERY

DELIVERY & SAFE ACCESS To deliver your tank without damage, please notify Bushmans Customer Care (driver) prior to delivery if there is not sufficient space for an oversize semi-trailer to turn around, or if there are any obstacles the driver should be aware of. A driver will conduct a pre-delivery site assessment and will require that an exclusion zone is set up on the side of the truck where the tank is to be unloaded.

Please note: Safety is our top priority. If the site does not meet safety requirements for unloading, our driver will choose an alternative safe location. Customers must provide able-bodied assistance for unloading, if not, any additional costs for equipment or services will be at the purchaser's expense. If the tank is moved by the customer after delivery, fittings will not be installed, and the customer assumes full responsibility for relocation and installation.

IMPORTANT NOTE FOR DELIVERY & SITE ACCESS



COMMON OBSTACLES

Obstacles may include low power lines, gates, inaccessible roads, roundabouts, crossings, overhanging trees etc. Check our website to see our delivery areas. Equipment at purchaser's expense can include crane hire, as we don't provide a crane, 4WD tractor hire, backhoe hire & front end loader hire etc.

Please note Bushmans does not provide a crane.

DELIVERY ON-SITE is where our driver will help sit the tank only if the provided conditions are met as per Checklist, if you have followed the guidelines, the site is prepared and safe, our driver will install your tank.

Note: Due to WHS drivers will not unload or transport the tank to the installation-site, or leave the tank on-site if insufficient assistance or unsafe access is provided. The driver has the final decision to assess suitability of the site. Bushmans take no responsibility for tanks being damaged if site is unprepared. If delivery cannot be made to your site Bushmans will automatically attempt delivery again at the purchaser's expense.

FITTINGS INSTALLATION METHOD Bushmans fittings are installed at the time of delivery. If the site is unprepared or the customer declines to have the fittings installed during delivery, the responsibility for installation will fall to the customer. Our delivery team cannot return to install fittings at a later date.

PLUMBING FITTINGS Please advise prior to delivery if you need any extra Bushmans fittings or valves. Extra fittings are available upon request at additional cost. Check with local council for regulations relating to rain water tank installations. See fittings & accessories for more information. When plumbing the inlet, overflow or outlets, ensure allowances are made for the poly tank to move position, expand and contract. Typical PVC or metal fittings are relatively rigid and inflexible.

Note: Purchase and delivery of any additional plumbing fittings and pipes are responsibility of purchaser. Our guarantee specifies a 1000mm flexible hose be fitted to the outlet.

SECURING YOUR TANK When your tank arrives you must put at least 85mm (3.3") of water into the tank, if water is not available ensure that the tank is tied down to secure it from blow-away and damage. Water tank stands can be used but must be designed by a qualified consulting engineer.

Note: Bushmans take no responsibility for tanks being damaged if the tank is not secured properly. Due to WHS our drivers and service people are not permitted to work at heights and therefore cannot assist in placing or servicing tanks on stands.

ASSISTANCE REQUIRED FOR TANK DELIVERY

These are the extra number of people required on-site at the time of delivery to assist in positioning the tank. It is recommended to use lifting devices or heavy machinery (tractor with forks – Franna or Loader) if available.

Capacity Litres	Ordering Code	Number of People
Slimline Tanks		
660	TSL160	1 + driver
1000	TSL200	1+ driver
1000	TSL220	1+ driver
1000	TSL230	1+ driver
2000	TSL440	3 + driver
3000	TSL660	3 + driver
4000	TSL880	4 + driver
5000	TSL1100	4 + driver
Small Round Tanks		
1000	TT210	1 + driver
1200	TT260	1+ driver
1500	T350	1+ driver
2400	TS540	1+ driver
2550	TT560	1 + driver
2600	TXD560	1 + driver
3250	TT650	1 + driver
3200	TXD650	1 + driver
4000	TXD910	1 + driver
5000	TT1100	1 + driver
5000	TXD1200	1 + driver
Large Round Tanks		
10000	TXD2200	2 + driver
10000	TXD2300	2+ driver
15000	TXD3300	2+ driver
22500	TXD5000	3+ driver
25000	TXD5500	3 + driver
30000	TXD6500	5 + driver
46400	T10500	5 + driver

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