

Bushmans

SAVING AUSTRALIA'S WATER



Water Tanks, Agricultural Storage & Installation Guides



Bushmans
SAVING AUSTRALIA'S WATER

Aqualine
STEEL TANKS

AG RANGE
POLYTUFF

Your Local Bushmans Distributor:

Bushman Tanks is an Australian owned and operated company and has been manufacturing tanks since 1989. Bushmans original range of Poly tanks and agricultural products provides the most cost-efficient water storage products, made in one piece from UV stabilised polyethylene.

Bushmans Aqualine water tanks is Bushmans range of high quality steel liner tanks. Designed and manufactured to stringent requirements, all our products are robust and reliable in Australia's tough conditions.



Poly Water Tanks

Bushmans has been manufacturing tanks since 1989 and when it comes to water storage, we deliver in the toughest conditions. You can rely on Bushmans to save Australia's water. Bushmans original range of Poly tanks provides you access to the most cost-efficient water storage products. Made in one piece from UV stabilised polyethylene, Bushmans tanks give you reliable long-term performance.

For Residential Applications

Even when connected to a water supply everyone wants to do their bit to save water – and nobody saves it like Bushmans. Our domestic water tanks are available from 660L to 46,400L and are easily installed on residential properties. Not only will these tanks give you rainwater on tap, they will save you money on your water bills, and add value to your home.

For Rural Applications

When you rely on water for your business, indeed for survival, you have to have it when you need it. You can choose a Bushmans tank up to 46,400 litres to provide water storage solutions for all your needs. We can't make it rain but we can store it when it does and nothing saves water like a Bushmans tank.

Bushmans Sunsmart® Technology

Is an improved raw material which provides longer tank life in Australia's conditions. The tanks are one piece so there is no weakening due to cutting and screwing. Bushmans tanks are accredited to manufacture to the AS/ NZS4766 tank standard and have stood the test of time with tanks in the field for over 30 years.





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

Common Questions And Things To Consider Before You Order Your Bushmans Tank.

Why would I buy a rainwater tank?

Australia is the driest inhabited continent in the world, therefore water conservation is, and will continue to be, a major issue in our country. Collecting and storing rain water is a very efficient and cost effective way to re-use water around the house, farm or commercial site.

If you are not connected to mains water then rainwater is a great way to provide clean water. If you are connected to mains water, a tank gives you the freedom to use your water when and how you choose.

Worried that a water tank will affect the look of your home, farm or site? Well you needn't be, as Bushman tanks come in an extensive range of shapes and colours to blend into their surroundings. As well as merging into the background, they also add value to your home should you wish to sell.

What size tank do I need?

This will depend on a few different factors including:

- What you intend to use the water for will vary significantly from customer to customer. Household customers may intend to use the rain water to fill their pools and water their gardens while agricultural customers may use the tanks to store large amounts of stock water for the farm – resulting in very different tank solutions.
- How much rainwater can your roof/hard surface capture. Once you know the square meter measurement of your roof/hard surface and the approximate level of rainfall annually (see rainfall charts), you can use the Bushmans Water Tank Calculator to determine the amount of rainwater your roof can collect and therefore what tank size would best suit your needs.

Scan the QR to head to the Bushmans Water Tank Calculator or visit:

www.bushmantanks.com.au/water-tank-calculator



Does the tank come with accessories and fittings?

All tanks come with an outlet, a ball valve, overflow and leaf strainer as standard. The experts at Bushmans will be happy to discuss your specific requirements and advise on any additional accessories that you may need for your tanks.

Do I need a pump?

It is recommended to use a pump so your tank water has the same pressure as mains water.

Do I need to cover my pump and protect it from the weather?

Most quality pump manufacturers recommend that you protect your pump from the elements to extend the working life of your pump. At Bushmans, we also make pump covers. A pump cover also reduces noise and can reduce problems with your water system through improved reliability.

Extend the life of your pump by keeping it protected from the elements and off the ground with Bushmans two piece pump cover. Covers available in sizes to suit most pumps.

FEATURES:

- easy cutter paths for pipework entry slots
- ventilation holes for air circulation
- grab handles for easy removal
- drainage holes in base to allow water to escape, aesthetic design

What do I need to do before the tank arrives?

We have put together a step by step guide to installing your tank. There are two types of delivery; On-Site delivery and a Roll-Off delivery. On-site is where you have followed the guidelines and the site is prepared for a safe installation by our Customer Care team members.

If the site is not prepared or it is unsafe for our Customer Care team members to fit the tank, then a Roll-Off delivery will take place, so the tank can be installed at a later date.

To ensure your new tank delivery runs smoothly, you will need to provide people and/or lifting equipment to support the unloading and siting of the tank. The number of people will depend on the tank size. See the Poly Water Tank Installation section.

Do I need to have my tank and systems maintained?

It is recommended you maintain your tank and system by regularly cleaning it of debris and pests.

Round, Tall & Squat Tanks

The **TALL** and **ROUND** tank is suited for small spaces around suburban homes. These tanks provide good storage capacity, with minimum diameter space requirements. The **SQUAT** tank provides excellent storage capacity, suited for sites that require a low water inlet height. Priced reasonably, they are well suited to rural properties or large town blocks requiring plenty of water storage.



1000L (220gal)
TT210 TALL
QLD NSW VIC SA
Inlet (H) **2.08m** (6'10")
Diameter **0.81m** (2'8")
Total (H) **2.08m** (6'10")



1200L (260gal)
TT260 ROUND
QLD Only
Inlet (H) **1.51m** (5'0")
Diameter **1.05m** (3'5")
Total (H) **1.51m** (5'0")



1500L (330gal)
T350 ROUND
QLD NSW VIC SA
Inlet (H) **1.62m** (5'4")
Diameter **1.19m** (3'11")
Total (H) **1.62m** (5'4")



2400L (530gal)
TS540 SQUAT
QLD NSW
Inlet (H) **1.06m** (3'6")
Diameter **1.81m** (5'11")
Total (H) **1.20m** (3'11")



2550L (560gal)
TT560 TALL
QLD NSW VIC SA
Inlet (H) **1.51m** (5'0")
Diameter **1.57m** (5'2")
Total (H) **1.68m** (5'6")



3200L (700gal)
TT650 TALL
NSW SA
Inlet (H) **1.82m** (5'11")
Diameter **1.57m** (5'2")
Total (H) **1.96m** (6'5")



3200L (700gal)
TXD650 TALL
QLD VIC
Inlet (H) **1.82m** (5'11")
Diameter **1.57m** (5'2")
Total (H) **1.96m** (6'5")



4000L (880gal)
TXD910 SQUAT
QLD NSW VIC SA
Inlet (H) **1.30m** (4'3")
Diameter **2.12m** (6'11")
Total (H) **1.46m** (4'9")



5000L (1100gal)
TT1100 TALL
QLD NSW VIC SA
Inlet (H) **2.05m** (6'8")
Diameter **1.85m** (6'1")
Total (H) **2.25m** (7'5")



5000L (1100gal)
TXD1200 SQUAT
QLD NSW SA
Inlet (H) **1.78m** (5'8")
Diameter **2.07m** (6'8")
Total (H) **1.86m** (6'1")



10000L (2200gal)
TXD2200 SQUAT
QLD NSW VIC SA
Inlet (H) **1.55m** (5'1")
Diameter **3.08m** (10'1")
Total (H) **1.81m** (5'11")



10000L (2200gal)
TT2300 TALL
VIC
Inlet (H) **2.16m** (7'1")
Diameter **2.59m** (8'6")
Total (H) **2.31m** (7'7")



10000L (2200gal)
TXD2300 TALL
QLD NSW SA
Inlet (H) **2.24m** (7'3")
Diameter **2.57m** (8'4")
Total (H) **2.45m** (8'0")



15000L (3300gal)
TXD3300 ROUND
QLD NSW VIC SA
Inlet (H) **2.20m** (7'3")
Diameter **3.08m** (10'1")
Total (H) **2.48m** (8'2")



22500L (5000gal)
TXD5000 SQUAT
QLD NSW VIC SA
Inlet (H) **2.20m** (7'3")
Diameter **3.78m** (12'5")
Total (H) **2.56m** (8'5")



25000L (5500gal)
TXD5500 ROUND
QLD NSW VIC
Inlet (H) **2.42m** (7'10")
Diameter **3.78m** (12'4")
Total (H) **2.79m** (9'2")



30000L (6600gal)
T6500 ROUND
QLD
Inlet (H) **2.68m** (8'9")
Diameter **3.92m** (12'10")
Total (H) **2.87m** (9'5")



30000L (6600gal)
TXD6500 ROUND
NSW SA VIC
Inlet (H) **2.71m** (8'10")
Diameter **3.95m** (12'11")
Total (H) **3.08m** (10'1")



46400L (10200gal)
T10500 ROUND
QLD NSW VIC SA
Inlet (H) **2.95m** (9'8")
Diameter **4.60m** (15'1")
Total (H) **3.16m** (10'4")



Included: Leaf strainer, overflow, brass outlet and ball valve. Also available: pumps, water diverters and leaf strainer covers.
*Capacities and measurements are tested in accordance with AS4766, but may vary up or down due to the roto-moulding process.
Users of tanks should take care to ensure the capacity of the tank is sufficient for its specific use. Dimensions in metres are rounded to the nearest centimeter. Dimensions in imperial are rounded to the nearest inch. Subtract 100mm from pump cover dimensions when estimating internal measurements. When estimating space requirements for siting your tank, Bushmans recommends a minimum clearance of 300mm at top and sides.

Tank Colours

Bushmans offer 13 standard colours (*only colours offering Sunsmart® Technology*) plus a range of optional colours which will suit the most buildings and fences.

Colours shown below are a **guide only**, for true colour representation, contact your Bushmans representative.



Slimline & Modular Slimline Tanks

These tanks are perfect for suburban homes that have limited space. The short length of these tanks is ideal to fit between windows. One or two of these tanks can provide enough water for the garden and/or to wash the car.



660L (145gal)
TSL160 SLIMLINE
QLD NSW
Height 0.92m (3'0")
Width 0.71m (2'4")
Length 1.42m (4'7")



1000L (220gal)
TSL200 SLIMLINE
VIC SA
Height 1.73m (5'7")
Width 0.45m (1'5")
Length 2.03m (6'8")



1000L (220gal)
TSL220 SLIMLINE
SA Only
Height 2.03m (6'8")
Width 0.61m (2'0")
Length 1.26m (4'2")



1000L (220gal)
TSL230 SLIMLINE
QLD NSW VIC SA
Height 1.62m (5'4")
Width 0.62m (2'0")
Length 1.48m (4'10")



2000L (440gal)
TSL440 SLIMLINE
QLD NSW VIC SA
Height 2.15m (7'1")
Width 0.71m (2'4")
Length 2.29m (7'6")



3000L (660gal)
TSL660 SLIMLINE
QLD NSW VIC SA
Height 2.14m (7'0")
Width 0.80m (2'8")
Length 2.48m (8'2")



5000L (1100gal)
TSL1100 SLIMLINE
QLD NSW VIC SA
Height 2.10m (6'10")
Width 1.06m (3'5")
Length 3.34m (10'11")

Accessories

The quality fittings and accessories you use with your tank are just as important as the actual tank itself. Bushmans help ensure you get the most from your new tank. This includes ensuring water entering the tank is clean, gauges to check the water volume and pumps to move the water to the house, tap, trough or other delivery points. Many more accessories to be found online.



Keep the tank clean
FIRST FLUSH DIVERTER



Keep the tank clean
LEAF EATER



Keep the tank clean
STRAINER COVER



Measure your water
LIQUIDATOR GAUGE



Measure your water
LEVATOR LEVEL INDICATOR



Measure your water
DIPSTICK GAUGE



Pump cover SML
PCS
Height 0.55m (1'10")
Width 0.40m (1'4")
Length 0.70m (2'4")



Pump cover LGE
PCL
Height 0.60m (1'11")
Width 0.49m (1'7")
Length 0.83m (2'9")



Water for Fire Units
FIRE HOSE
1 of 4mx38mm Grey PVC suction hose, strainer, nuts & tails plus 2 of 10mx20mm Black fire fighting delivery hoses, nozzles, nut & tails



Water for Fire Units
FIRE HOSE ADAPTOR



Delivery & Installation

We want to make it as easy as possible to start saving water around the farm. Once purchased, our Customer Care team member or local distributor will deliver the tank straight to your site and fit it out, meaning when they leave; the tank is ready for use immediately. Preparing for delivery, this Installation Guide will help you prepare for the arrival of your Bushmans tank.

Preparing For Delivery & Safe Access

To deliver your tank without damage please ensure that you notify Customer Care/logistics if there is not sufficient space for an oversize semi-trailer to turn around or if there are any obstacles that the Customer Care team member will need to consider. Our Customer Care team member will need assistance at time of delivery to unload your tank from the truck. Please have able-bodied people available, if assistance cannot be provided then hire or use of any equipment is at purchaser's expense.

NB: A minimum of 50m turning space is required, max dimensions of truck: 21m(L) x 2.5m(W) x 5.2m(H). 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, 4WD tractor hire, backhoe hire, front end loader hire etc.

Assistance Required For Tank Delivery

Below outlines the extra number of people required On-Site at the time of delivery to assist our Customer Care team member in positioning tank.

| Litres | Code | Assistants | Litres | Code | Assistants | Litres | Code | Assistants |
|--------|--------|------------|--------|---------|------------|--------|---------|------------|
| 660 | TSL160 | 1+driver | 3000 | TSL660 | 3+driver | 15000 | TXD3300 | 2+driver |
| 1000 | TT200 | 1+driver | 3200 | TT650 | 1+driver | 22500 | TXD5000 | 3+driver |
| 1000 | TT210 | 1+driver | 3200 | TXD650 | 1+driver | 25000 | TXD5500 | 3+driver |
| 1000 | TSL220 | 1+driver | 4000 | TXD910 | 1+driver | 30000 | T6500 | 4+driver |
| 1000 | TSL230 | 1+driver | 5000 | TSL1100 | 4+driver | 30000 | TXD6500 | 4+driver |
| 1200 | T260 | 1+driver | 5000 | TT1100 | 1+driver | 46400 | T10500 | 6+driver |
| 1500 | T350 | 1+driver | 5000 | TXD1200 | 1+driver | | | |
| 2000 | TSL440 | 3+driver | 10000 | TXD2200 | 2+driver | | | |
| 2400 | TS540 | 1+driver | 10000 | TXD2300 | 2+driver | | | |
| 2550 | TT560 | 1+driver | 10000 | TT2300 | 2+driver | | | |

NB: Your tank will not be unloaded without the required assistance. Due to OH&S Customer Care team members 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 Customer Care team member 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.

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.

NB: Purchase and delivery of any additional plumbing fittings and pipes are responsibility of purchaser. Our guarantee specifies a 300mm flexible hose be fitted to the outlet.

Securing Your Tank

When your tank arrives you must put at least 25mm (1") 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

NB: Bushmans take no responsibility for tanks being damaged if the tank is not secured properly.

WARNING These errors will void your guarantee

- Do not leave tank empty, it may blow away.
- Always wear safety gear and safety eye glasses when drilling.
- Do not work alone or enter tank, this is a confined space.
- Do not lift tank with water inside.

Tank base undermined, inadequate overflow length.

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

Rocky and uneven ground with little or no base preparation.

Must not have undersized base. Circumference must be supported.

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

Roll-Off Delivery

If the site is not prepared it can be installed at a later date. Check it is possible to roll the tank off without damage, when moving into position, avoid rough and sharp surfaces, ensuring the area to unload the tank is level and clear of building material.

Roll-Off Delivery Steps

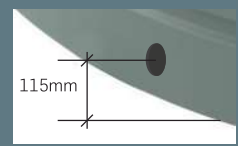
- 1 Make sure tank pad is level and position tank.
- 2 Mark outlet position on tank.
- 3 Drill outlet hole to suit tap or gate valve fitting with either a 22mm spade bit, or a 46mm (1" outlet) or 63mm (2" outlet) hole saw.
- 4 Next use a 98mm hole saw to drill out overflow as per Overflow Installation leaflet in the kit. The overflow must be positioned in the middle of the flat spot.
- 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.
- 6 Remove strainer screws and remove strainer.
- 7 Place conduit in strainer hole, feed through outlet hole.
- 8 To insert brass fitting in outlet, undo nut off outlet and slide outlet and washer down conduit. Pull through from outside.
- 9 Screw nut on and tighten by hand (left handed thread).
- 10 Place thread tape onto outlet thread and fit ball valve. Tighten with multigrips.

Roll-Off Delivery Checklist

- 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').
- Water is immediately available to put 25mm in tank to prevent blow-away.
- Note instructions for Roll-Off delivery (see Preparing for Delivery & Safe Access).

Outlet Position

- Centre of outlet should be in the middle of bottom rib (max size fittings 50mm) to ensure proper sealing.



Tools Required

Fitting & site preparation:

- Pick, shovel, crowbar, level, drill, hacksaw, multigrips, ladder, electrical conduit (12mm), plumbers tape.
- Hole saws and arbour: 98mm (overflow), 63mm (2") or 46mm (1" outlet), 22mm spade bit (1" moulded outlet).
- Phillips screwdriver bit (our Customer Care team member is trained to install tank fittings and carries the tools required for fitting).

- 11 Loosen off hand tight outlet nut and move ball valve into upright position. Tighten outlet nut with multigrips.
- 12 Place strainer back into tank and screw back in to place so it is sealed and vermin proof.
- 13 Assemble flex hose using thread tape, attach elbow to ball valve.

On-Site Delivery

Our Customer Care team member will help site the tank only if the provided conditions are met as per the Checklist, if you have followed the guidelines, the site is prepared and safe, our Customer Care team member will install your tank.

In Ground Installation

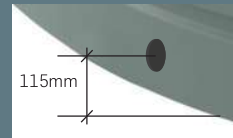
1. Before commencing, check for underground pipes and ensure excavation work does not infringe on the weight bearing capacity of adjacent structures. Excavate the hole in depth to allow for 50-75mm of bedding material and a maximum depth of 1/3 of the tank wall height. Excavate the hole in diameter to 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 sand or crusher dust 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 back fill, 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.

On-site Delivery Checklist

- Check you're prepared for our Customer Care team member to position tank, drill outlets, fit taps and seals.
- Check there is suitable and safe site access (*see Preparing for Delivery & Safe Access*).
- Site must be prepared as per instructions.
- Check enough people are present to assist tank positioning (*see table 'assistance required'*).
- I'm organised to instruct outlet positions (*see diagram below*).
- Water is immediately available to put 25mm in tank to prevent blow-away.

Outlet Position

- Centre of outlet should be in the middle of bottom rib (*max size fittings 50mm*) to ensure proper sealing.



Tools Required

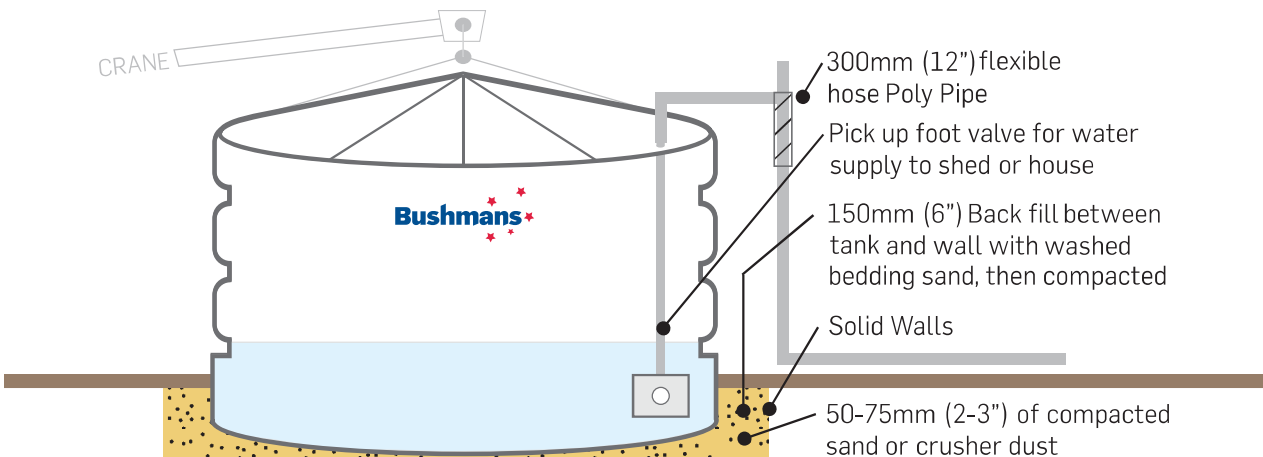
Fitting & site preparation:

- Pick, shovel, crowbar, level, drill, hacksaw, multigrips, ladder, electrical conduit (12mm), plumbers tape.
- Hole saws and arbour: 98mm (overflow), 63mm (2") or 46mm (1" outlet), 22mm spade bit (1" moulded outlet).
- Phillips screwdriver bit (*our Customer Care team member is trained to install tank fittings and carries the tools required for fitting*).

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 shown.

Important: Water capacity of the inlet must equal water capacity of the overflow e.g. 2 x 100mm (4") inlets = same capacity overflow.

6. Water Outlet – Overflow – Connect overflow. Water must be piped away from the tank.



On Stand - Installation

1. Prepare a stand that has hardwood decking with gaps no greater than 25mm (1").

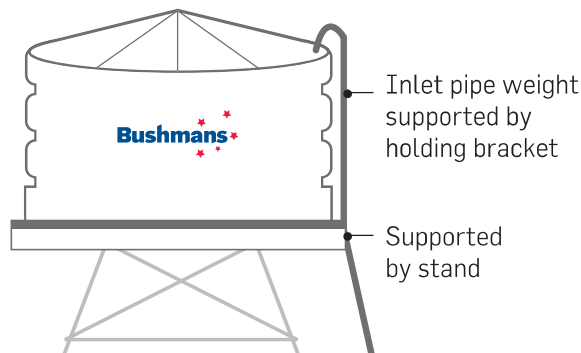
Decking should be supported structurally by bearers strong enough to prevent sagging of decking when tank is full.

2. Tank must be lifted into place by crane (if positioning requires a crane this will be at purchaser's expense).
3. Tank must be secured or water filled to 25mm to prevent blow-away (no responsibility taken for tanks being damaged in this manner).
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 shown.

Important: Water capacity of the inlet must equal water capacity of the overflow e.g. 2 x 100mm (4") inlets = same capacity overflow.

6. Water Outlet – Overflow – Connect overflow. Water must be piped away from the tank.

NB: Due to OH&S our Customer Care team members and service people are not permitted to work at heights and therefore cannot assist in placing or servicing tanks on stands.



On Pad - Installation

1. Prepare a reinforced concrete pad that is level and 300mm wider than the diameter of 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 surface.
2. Tank is rolled to position (if positioning requires a crane this will be at purchaser's expense).
3. Tank must be secured or water filled to 25mm to prevent blow-away (no responsibility taken for tanks being damaged in this manner).
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 shown.

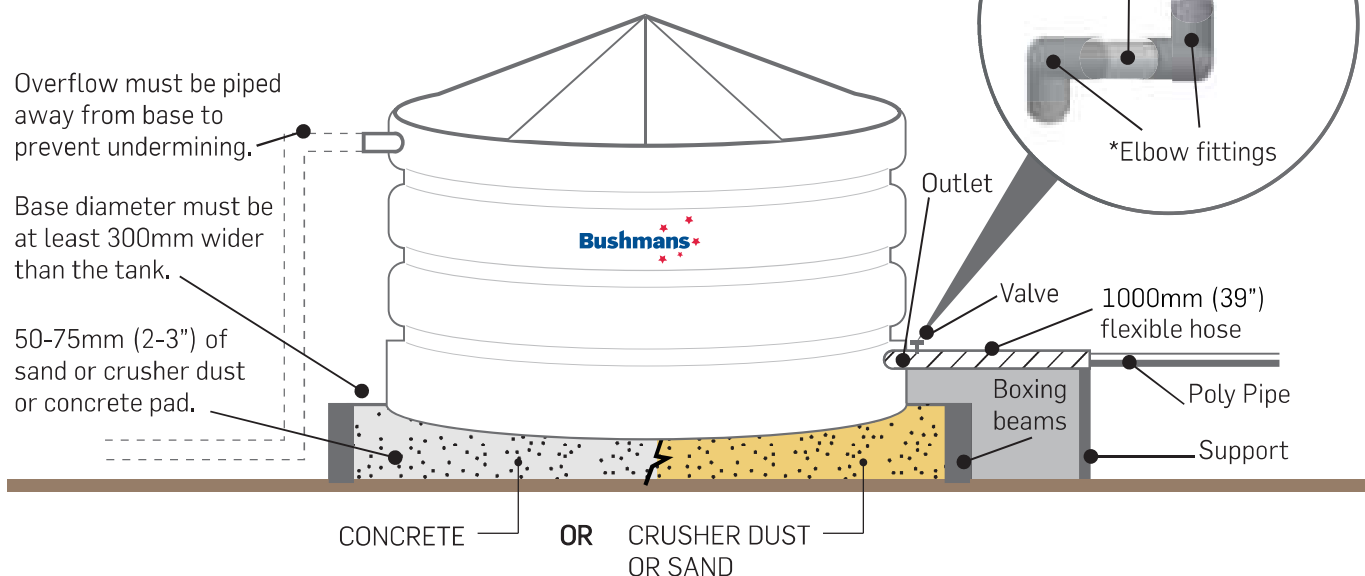
Important: Water capacity of the inlet must equal water capacity of the overflow e.g. 2 x 100mm (4") inlets = same capacity overflow.

6. Water Outlet – Overflow – Connect overflow. Water must be piped away from the tank.

Overflow must be piped away from base to prevent undermining.

Base diameter must be at least 300mm wider than the tank.

50-75mm (2-3") of sand or crusher dust or concrete pad.





Agricultural Solutions

Our agricultural range includes molasses and fertiliser tanks, troughs, cup and saucers and bunds. We also custom make Chemical and Industrial storage tanks, with fittings which will align with specific customer requirements.

The polyethylene that we use is an advanced generation linear material that has been tried and tested in Australia's tough conditions. Designed and manufactured to stringent requirements, Bushmans only uses the best material for the whole of the tank - providing highest strength and superior chemical resistance. We also have a full range of fittings and attachments that can be plastic welded onto the tank to suit your specific needs. Our extensive research and testing of agricultural, industrial and chemical tanks has proven that Bushmans' tanks are strong and dependable in the long term.

CORNER TROUGHS are durable and designed to withstand harsh treatment from livestock. Optional fittings include float, inlet and drain.

POLYTUFF TROUGHS Turnkey stock watering, hook it up to water and it is ready to go. 1"(25mm) Hansen poly float valve with external 90deg bend and 2"(50mm) brass drain outlet with plug and HDPE float cover with zinc lynch pin.

CIRCULAR TROUGHS are built tough and flexible to perform in harsh conditions. Optional fittings include brass outlet and plug, single float, float cover and outlet.

BUNDS are made to order for safe storage of chemicals and waste products.

CUP & SAUCERS a tank and trough combination with float and drain bung (including float guard).

MOLASSES TANKS are designed and manufactured to specific gravity requirements that will meet molasses storage needs. Fittings: 3" brass outlet and ball valve, including vented lid.

LICK TROUGHS Dry licks, molasses, water, grain etc. Accessory options available.

FERTILISER TANKS are robust, strong tanks that come complete with fill pipe, level gauge, outlet and is ready to use. Our fertiliser tanks are easy to store and use, do not corrode with highly corrosive products such as urea-based products.

Optional 2" or 3" outlets:

- 620mm manhole / vented lid
- 50mm(2") top inlet plumbed to 50mm banjo ball valve, male camlock and dust cover
- 50mm(2") bsp base outlet with 50mm banjo ball valve, male camlock and dust cover
- 90mm pvc overflow
- Chemical float indicator
- 63mm external riser pipe

Optional base fill outlet:

- 620mm manhole with vented screw cap lid
- 50mm(2") bsp base outlet with 50mm banjo ball valve, male camlock and dust cover
- 90mm pvc overflow
- Chemical float indicator



33L (7gal)
TRC33 CORNER

QLD NSW VIC SA
Height **0.30m** (1'0")
Width **0.50m** (1'7")
Length **0.85m** (2'9")



360L (80gal)
TR80 LICK

QLD NSW VIC SA
Base Dia. **1.07m** (3'6")
Top Dia. **1.30m** (4'3")
Height **0.40m** (1'3")



600L (130gal)
TRW130 CIRCULAR

QLD NSW VIC SA
Base Dia. **1.40m** (4'7")
Top Dia. **1.57m** (5'1")
Height **0.50m** (1'7")



1320L (290gal)
TR285CH CIRCULAR

QLD NSW
Base Dia. **1.52m** (4'11")
Top Dia. **1.67m** (5'5")
Height **0.65m** (2'1")



1500L (330gal)
TR330CS CIRCULAR

QLD NSW
Base Dia. **2.26m** (7'4")
Top Dia. **2.45m** (8'0")
Height **0.35m** (1'1")



5000L (1100gal)
TT1100 FERTILISER

QLD NSW VIC SA
Inlet (H) **2.05m** (6'8")
Diameter **1.85m** (6'1")
Total (H) **2.25m** (7'5")



5000L (1100gal)
TM1100 MOLASSES

QLD NSW VIC SA
Inlet (H) **2.05m** (6'8")
Diameter **1.85m** (6'1")
Total (H) **2.25m** (7'5")



5600L (1230gal) TT1100-
TR330CS CUP & SAUCER

QLD NSW SA
Access Width **0.30m** (1'0")
Trough Width **2.45m** (8'0")
Trough (H) **0.35m** (1'1")



10000L (2200gal)
TT2300 FERTILISER

VIC SA
Inlet (H) **2.16m** (7'1")
Diameter **2.59m** (8'6")
Total (H) **2.31m** (7'7")



10000L (2200gal)
TTM2300 MOLASSES

VIC SA
Inlet (H) **2.16m** (7'1")
Diameter **2.59m** (8'6")
Total (H) **2.31m** (7'7")



10000L (2200gal)
TXD2300 FERTILISER

QLD NSW
Inlet (H) **2.16m** (7'1")
Diameter **2.59m** (8'6")
Total (H) **2.31m** (7'7")



10000L (2200gal)
TXDM2300 MOLASSES

QLD NSW
Inlet (H) **2.16m** (7'1")
Diameter **2.59m** (8'6")
Total (H) **2.31m** (7'7")



15000L (3300gal)
T3300 FERTILISER

SA
Inlet (H) **2.20m** (7'21")
Diameter **3.05m** (10'0")
Total (H) **2.44m** (8'0")



15000L (3300gal)
TM3300 MOLASSES

SA
Inlet (H) **2.20m** (7'21")
Diameter **3.05m** (10'0")
Total (H) **2.44m** (8'0")



15000L (3300gal)
TXD3300 FERTILISER

NSW VIC QLD
Inlet (H) **2.20m** (7'3")
Diameter **3.08m** (10'1")
Total (H) **2.48m** (8'2")



15000L (3300gal)
TXDM3300 MOLASSES

NSW VIC QLD
Inlet (H) **2.20m** (7'3")
Diameter **3.08m** (10'1")
Total (H) **2.48m** (8'2")



22500L (5000gal)
TXD5000 FERTILISER

QLD NSW VIC SA
Inlet (H) **2.20m** (7'3")
Diameter **3.78m** (12'5")
Total (H) **2.56m** (8'5")



22500L (5000gal)
TXDM5000 MOLASSES

QLD NSW VIC SA
Inlet (H) **2.20m** (7'3")
Diameter **3.78m** (12'5")
Total (H) **2.56m** (8'5")



25000L (5500gal)
TXD5500 FERTILISER

QLD NSW VIC
Inlet (H) **2.42m** (7'1")
Diameter **3.78m** (12'4")
Total (H) **2.79m** (9'2")



25000L (5500gal)
TXDM5500 MOLASSES

QLD NSW VIC
Inlet (H) **2.42m** (7'1")
Diameter **3.78m** (12'4")
Total (H) **2.79m** (9'2")



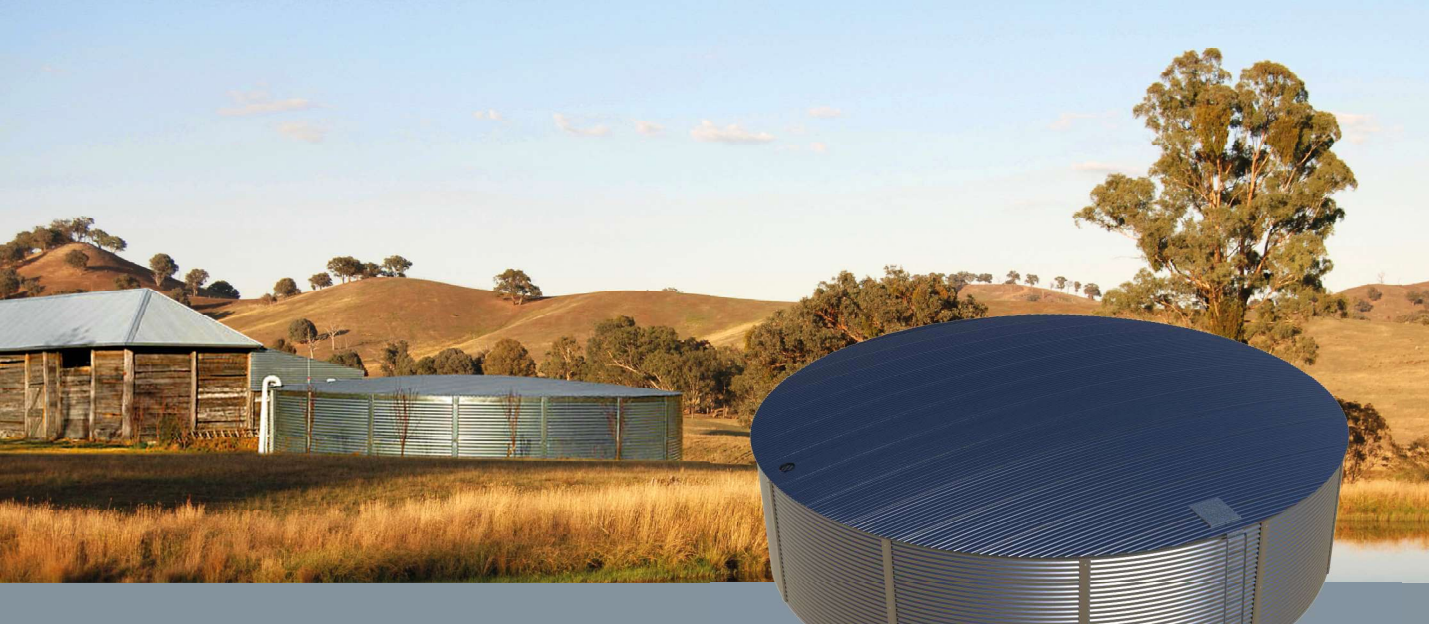
30000L (6600gal)
T6500 FERTILISER

QLD NSW VIC SA
Inlet (H) **2.68m** (8'9")
Diameter **3.92m** (12'10")
Total (H) **2.87m** (9'5")



30000L (6600gal)
TM6500 MOLASSES

QLD NSW VIC SA
Inlet (H) **2.68m** (8'9")
Diameter **3.92m** (12'10")
Total (H) **2.87m** (9'5")



Steel Water Tanks

Aqualine water tanks is Bushmans range of large steel liner tanks, designed and made for Australian conditions. The key features of the Aqualine galvanised and Colorbond® steel tank range is that it is an on-site constructed tank with galvanised or Colorbond® steel walls and galvanised roof trusses with a poly liner to hold the water. This solution offers the best of both worlds when it comes to tanks.

Why Steel Liner Tanks

If you are looking to store over 20,000 litres of water our premium range of Aqualine steel liner tank will do the job. There are many applications for our steel water tanks, there are also many people who can benefit from their usage. Rural properties can utilise our metal water tanks for house, garden and farm shed rainwater harvesting. Hobby farmers can use large water tanks within their reticulated stock watering systems to bolster the amount of water they are able to source from. Commercial and government organisations such as schools, universities, local governments, commercial buildings and industrial customers can also gain benefits from the use of Aqualine tanks in their organization.

Rural and Commercial Firefighting Tanks

Designed and manufactured to meet Australian firefighting standards (AS2304).

TANK FEATURES & BENEFITS:

- Aqualine steel liner tank capacities range from 20,000L through to 360,000L – there is a size that will suit all applications
- Large water volumes means the cost per litre of storage can be lower
- They are erected on-site, so a large tank can be installed in places with limited access, including indoors
- 0.90mm thick Bluescope galvanised or Colorbond® walls
- 1.15mm thick Bluescope galvanised or Colorbond® bottom sheet of ASL150 and up
- 2 panel wall design for less seams
- Heavy duty circumference top support ring
- 40 X 40mm roof trusses for ASL20 to ASL80
- 50 X 50mm roof trusses for ASL100 and up
- Roof trusses are hot dipped galvanised providing long term rust protection
- Aqualine's unique wall corrugation design for strength and support
- Galvanised or Colorbond® bolt cover
- Walls are bolted together with hi-tensile bolts providing excellent strength
- 100mm overflow
- 50mm outlet and ball valve
- Strainer and light guard
- High quality tank liner made to withstand Australia's harsh conditions
- External removable ladder is standard
- Our galvanised and Colorbond® steel tanks do not need to use sacrificial anodes to reduce corrosion and maintain your warranty. No need for 5 yearly anode replacement.

Aqualine tank designs have been validated by a professional engineer according to the relevant sections of the Building Code of Australia and the Australian Standard AS/NZS 1170.2



Tank Colours

Bushmans offer a range of colours for the Aqualine tanks which will suit the most common colours used on buildings and fences.

Our most popular colours shown below are a guide only, for true colour representation, contact your Bushmans representative.



*Additional Colorbond® colours are available on request.

Aqualine Poly Liner Tanks

The Aqualine Polytough® tank liner is strong and is manufactured to the highest standards which ensures it holds water over the long term. Polytough® tank liners come in a range of materials including reinforced polypropylene, PVC, reinforced PVC and polyethylene.

Accessories

There is a range of accessories that can go with your Aqualine water tank:

- Up to 250mm outlet and overflow fittings for increased volume.
- Fire fighting fittings including Stortz fittings suited to the local fire authority.
- Leaf and debris catchment filter two piece with sunguard.
- Internal hot dipped galvanised ladder and bracket which can be removed for safety.
- Additional 50mm outlets and chrome plated ball valves.
- Rainsaver roof water collection system.
- Presstite dust and vermin protection. Presstite is a flexible polyurethane foam sealing strip.
- Water level indicators.
- Additionally Aqualine can supply pumps, filters and other associated products.
- Geo textile base to protect the liner from direct contact with the ground or slab.

Customer Responsibility

APPROVALS & LICENCES All council and other regulatory approvals must be obtained prior to tank construction.

CONFIRMATION OF SITE PREPARATION The customer is to advise in writing via email or fax at least 5 days prior to the install date that the site has been prepared in accordance to the Aqualine specifications. The customer should also email photos of the site to Aqualine showing the site and the size of particles in the tank base material.

SITE ACCESS Customer must provide clear access to the site for a 10m truck to be parked next to the tank location. If the installation is within a construction site, then access will need to be organised with the site supervisor. If there are site access issues, then you need to contact Aqualine Tanks to arrange any specific requirements.

PREREQUISITES & INSTALL It is the customer's responsibility that all the instructions and conditions pertaining to the site and pad preparation are met prior to the install date. Ideally the pad preparation should be completed at least a week prior to the install and construction date.

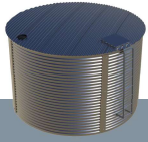
WIND RATING The tank design and install instructions are based on the Category B wind rating zone. If the tank is to be installed in a Category C wind zone (North QLD) then talk to our team to find out more.

ONGOING MAINTENANCE It is important that the tank and the base be maintained to ensure the integrity of the base, along with the tank structure and liner.

WATER QUALITY The standard Aqualine tank liner is designed for rain, bore, creek and river water. If the water has chlorine at greater than 2ppm or the water is from an RO plan then a specialist lining will be required. Failure to follow this guideline will void the liner warranty.

WARRANTY The Aqualine steel construction components come with a 10 year tank pro-rata maximum corrosion warranty. Once the tank construction and installation has been completed, the installation completion form has been signed off, the warranty will then commence. Failure to follow the base preparation guide and the post install guidelines will void your warranty.

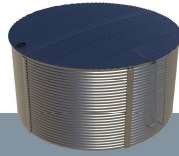
CANCELLATION Cancellation of the tank order may result in the forfeiture of your full deposit or part thereof. If you are unclear on any of the information covered in this document, contact Aqualine on 1800 008 888 or email sales@aqualinetanks.com.au



20000L

ASL20

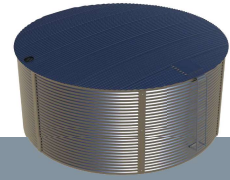
Wall (H) 2.22m
Wall Diameter 3.46m
Base Diameter 5.46m
Base Material 3.85m³



30000L

ASL30

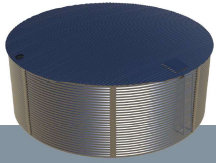
Wall (H) 2.22m
Wall Diameter 4.32m
Base Diameter 6.32m
Base Material 5.16m³



45000L

ASL45

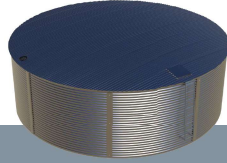
Wall (H) 2.22m
Wall Diameter 5.18m
Base Diameter 7.18m
Base Material 6.66m³



60000L

ASL60

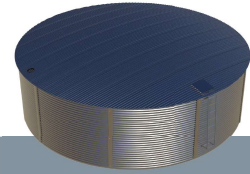
Wall (H) 2.22m
Wall Diameter 6.04m
Base Diameter 8.04m
Base Material 8.36m³



80000L

ASL80

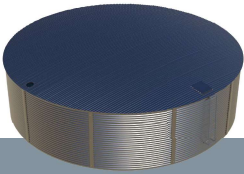
Wall (H) 2.22m
Wall Diameter 6.90m
Base Diameter 8.90m
Base Material 10.25m³



100000L

ASL100

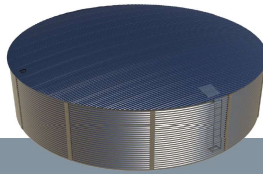
Wall (H) 2.22m
Wall Diameter 7.76m
Base Diameter 9.76m
Base Material 12.33m³



125000L

ASL125

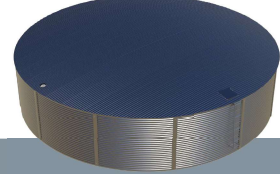
Wall (H) 2.22m
Wall Diameter 8.62m
Base Diameter 10.62m
Base Material 14.60m³



150000L

ASL150

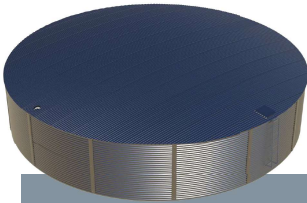
Wall (H) 2.22m
Wall Diameter 9.48m
Base Diameter 11.48m
Base Material 17.07m³



180000L

ASL180

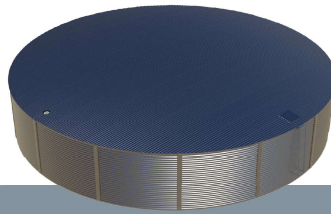
Wall (H) 2.22m
Wall Diameter 10.34m
Base Diameter 12.34m
Base Material 19.73m³



210000L

ASL210

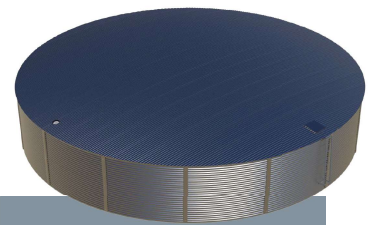
Wall (H) 2.22m
Wall Diameter 11.20m
Base Diameter 13.20m
Base Material 22.58m³



245000L

ASL245

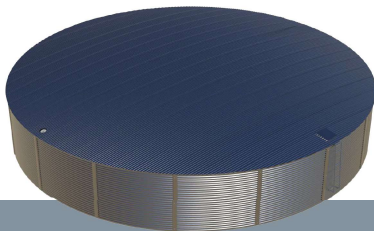
Wall (H) 2.22m
Wall Diameter 12.06m
Base Diameter 14.06m
Base Material 25.63m³



280000L

ASL280

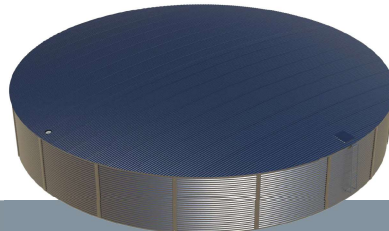
Wall (H) 2.22m
Wall Diameter 12.92m
Base Diameter 14.92m
Base Material 28.86m³



320000L

ASL320

Wall (H) 2.22m
Wall Diameter 13.78m
Base Diameter 15.78m
Base Material 32.29m³



360000L

ASL360

Wall (H) 2.22m
Wall Diameter 14.64m
Base Diameter 16.64m
Base Material 35.91m³

Installation

Prep & Completion Requirements

Aqualine tanks are designed for installation on a flat level surface that is able to withstand the weight of a full water tank. To do this the site must be prepared correctly. The correct preparation of your site will ensure that the tank will be trouble free for many years. There are three types of bases for Aqualine Tanks, these being free draining sand, a crusher dust base or a concrete pad base.

NB: If the pad is not prepared properly and the install team arrive and have to wait or come back, the customer will be responsible for any expenses including but not limited to travel, accommodation and wages incurred by Aqualine.

Concrete Base

The concrete slab must be designed to carry the weight of the tank filled with water. Aqualine can provide specific slab diagrams for basic installations. For more complex installations an engineer may be required.

Sand Or Crusher Dust Base

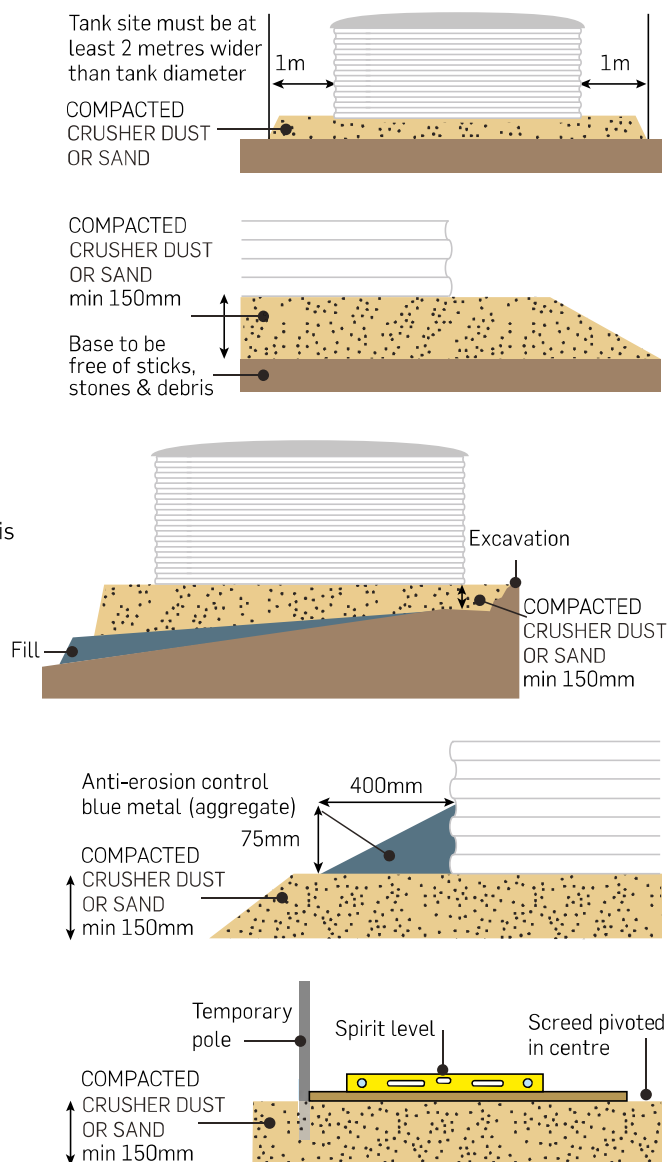
1. Preparing the Sand or Crusher Dust Pad:
 - The sand or crusher dust pad must have a diameter which is more than 2 metres wider than the tank diameter.
 - The preferred base material should be free draining and must be free
 - If crusher dust is used it must have particle sizes of less than 5mm and the tank base must have a Geotextile covering to protect the liner.
 - The pad must be stable prior to construction
 - The fill must be a minimum depth of 150mm and compacted to a minimum capacity of 50kPa.
2. It is important that the pad is 100% level.
3. For a tank base cut into a sloping site, make sure there is adequate drainage to direct water away from the pad.
4. A retaining wall may be required on sloping sites.

NB: The cubic metres of base material is for a flat site with a minimum of 150mm. Base preparation guidelines are designed for stable soils. Customers should consult their engineer on specific base and slab specifications. Tanks located in cyclonic regions will require a concrete ring beam.

| Code | base material | Code | base material |
|--------|---------------------|--------|---------------------|
| ASL20 | 3.85m ³ | ASL150 | 17.07m ³ |
| ASL30 | 5.16m ³ | ASL180 | 19.73m ³ |
| ASL45 | 6.66m ³ | ASL210 | 22.58m ³ |
| ASL60 | 8.36m ³ | ASL245 | 25.63m ³ |
| ASL80 | 10.25m ³ | ASL280 | 28.86m ³ |
| ASL100 | 12.33m ³ | ASL320 | 32.29m ³ |
| ASL125 | 14.60m ³ | ASL360 | 35.91m ³ |

Day Of Installation

- If the fitting and strainer locations have not been specified, then someone will need to be on-site to instruct the installers on the required locations, this must be finalised prior to truss installation.
- Once the installation has been completed the tank must have 300mm of water supplied by the customer to secure and set the liner. **This must happen on the day of installation.** If water is not added on the day this can void the warranty.
- A 75mm high by 400mm wide layer of blue metal or aggregate must be placed around the circumference of the tank to prevent erosion when water runs off the roof. If no blue metal or aggregate is placed the warranty will be voided.
- Inspection hatches should be locked to prevent unauthorised entry (customer to provide lock).





DELIVERY Bushmans provides specialist delivery and fit out services; this ensures that your new tank is delivered in 1st class condition and is fitted out to suit your individual needs. Our trucks and equipment are designed for efficient delivery and our staff are fully trained in unloading and tank fit out. Before we can install your new tank the site must be prepared to ensure the tank can be erected and installed correctly. Our tanks are fully installed by a professionally trained install team, to ensure that the tank is assembled and installed to the highest standards. When the tank is complete, it is ready to hold water.



GUARANTEE Our tanks are Australian made and Bushmans have been designing and manufacturing tanks since 1989. This experience and know how ensures you receive a quality product and peace of mind. Bushmans uses the latest in manufacturing technology and processes.



10YR GUARANTEE

Poly & Steel Water Tanks

5YR GUARANTEE

Fertiliser & Molasses Tanks

1YR GUARANTEE

Troughs, Cups & Saucers

QUALITY Experienced staff will answer all your enquiries and help you find the best solution for your water tank or industrial liquid storage requirement. All Bushmans factories are fully certified and qualified to manufacture tanks to the AS/NZS4766 Quality Standard, ensuring products produced in each of our plants are consistently made to the specified quality standard.



Your Local Bushmans Distributor:



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