

# STAINLESS STEEL RAIN WATER TANKS

## TECHNICAL DATA SHEET:



### Features & Benefits

- ▶ Strong and durable design, made to withstand the severest Australian conditions
- ▶ Potential service life of up to 100 years
- ▶ 100% recyclable
- ▶ Resistance to fire, rust and corrosion
- ▶ Environmentally friendly
- ▶ Made to measure
- ▶ Capacity up to 39,000L
- ▶ Australian made
- ▶ Option to nominate positions for Tank Inlet, Overflow and Outlet

### Inclusions

- ▶ 90mm Overflow
- ▶ 400mm Inlet Strainer
- ▶ 1" (25mm) Stainless Steel Outlet
- ▶ 1" (25mm) Stainless Steel Ball valve

### Recommended For

- ▶ Purest form of drinking water storage available
- ▶ CFA approved water storage
- ▶ The Australian Climate

### Accessories

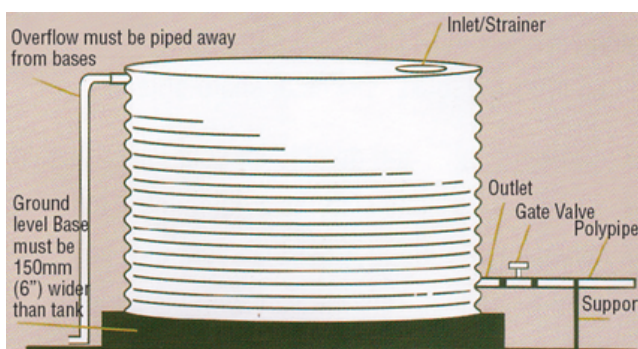
There are a range of fittings and accessories that can be added to your water tank, please see our **Fittings Price List** for more information.

### Warranty

Stainless Steel Tanks Pty Ltd offers this product under 30 year Warranty. Refer to the Warranty document for further information.

### Tank Base

- ▶ Tanks should not be placed directly onto the ground and must be installed on a firm, stable platform with no overhang of the tank over the edge of the base.
- ▶ The overflow of the tank must be plumbed at least 2 metres clear of the tank to avoid undermining of the tank stand/base
- ▶ Ground level base must be 150mm wider than the tank
- ▶ Tank stands/base must be able to safely support the tank when full of water, bearing in mind that water weighs 1kg per litre



### Physical Properties:

#### Appearance - Made to Measure

Height	850mm – 3150mm
Diameter	1000mm – 4000mm
Length	1000mm – 4000mm
Width	600mm – 1500mm
Min Size	444 Litres
Max Size	39,000 Litres
Vertical Wall	Precision roll formed 0.55mm stainless steel
Base	304 or 316 grade stainless steel
Lid	304 or 316 grade stainless steel
Fasteners	10 gauge hex head drill tip
Sealing	Neutral cure silicone sealant potable water approved AS4020
Corrugations	Corrugations for the tank walls comply with AS1445
Corrosion Protection	Grade 304 and Grade 316 Stainless Steel

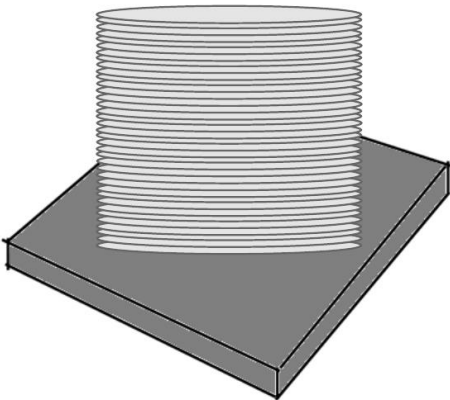
### 304 vs 316

On the surface, Grade 304 and Grade 316 stainless steel look much the same. They share many physical and mechanical properties – including rust and corrosion resistance.

304 is one of the most common stainless steel alloys in terms of strength and versatility. It comprises of 17.5 -19.5 % Chromium and 8 -10.5 % Nickel. This combination provides excellent corrosion protection – meaning the water tank withstands rust and the water storage remains uncontaminated.

316 grade stainless steel differs in the composition. It contains 16 -18% Chromium, 10 -14% Nickel and 2-3% Molybdenum making it a better fit for coastal areas or water being stored in a marine environment.

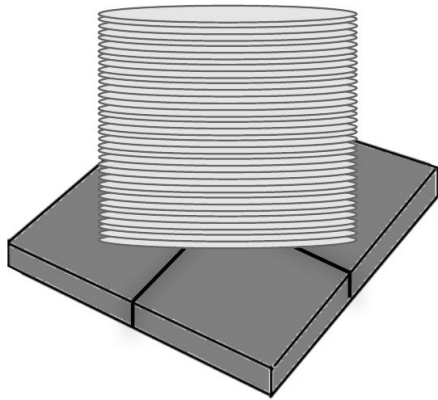
Stainless Steel Tanks Pty Ltd accept no responsibility for the failure of a tank base or any damages caused to a tank due to failure of the base. Not following these guidelines will result in your warranty becoming null and void. Tank bases must be installed prior to delivery.



## Concrete

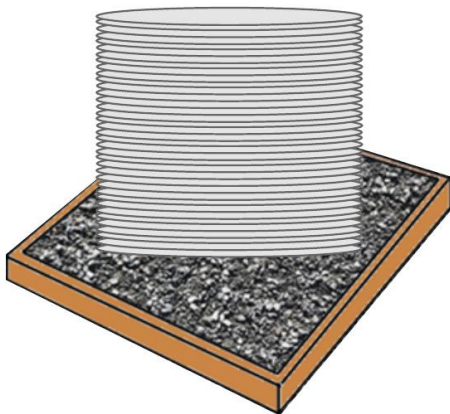
Our number one recommendation for your base is a concrete/cement pad. A concrete base will require the least amount of ongoing maintenance and is the most secure base type for your Stainless Steel Water Tank.

Your concrete base will need to be a minimum of 100mm thick and be reinforced with F62 reo mesh. It is extremely important that your base is constructed on a flat and level area. If the area you will be placing your tank is on an incline then you must organise for your slab to be thicker and ensure that a higher grade of mesh is used. In order for your base to be a sufficient for your tank please make sure that the slab is flat, smooth and level. It is recommended that a trowel finish is used. The slab must be a minimum of 100mm wider and 100mm longer than your water tank. Please allow at least 5 days for your slab to cure before having your tank delivered.



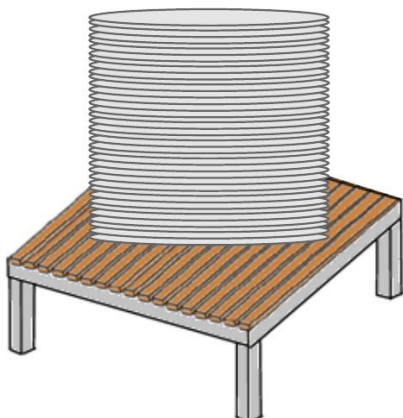
## Paver

When using concrete pavers as the base for your tank please ensure that the area has been dug down to firm earth. Once your sand and cement mix has been prepared it will need to be laid over your desired area ensuring it reaches at least 75mm in thickness. It is important that before you proceed to place your pavers that sand and cement mix has been levelled out correctly. Once the pavers have been placed flat onto your base you will be able to water them to set the sand and cement. It is required that your paver base follows the same guidelines for size as any concrete base. You can place your tank onto this base straight away however please allow at least 48 hours before filling your tank above the first 2 corrugations.



## Crusher Dust

When preparing a crusher dust base please ensure that you are carefully following all guidelines. If you are unsure if your base has been prepared correctly please contact us at Stainless Steel Tanks for further advice. It is important that there are no pieces larger than 5mm diameter when preparing your crusher dust base. Your base will need to be built up to be 150mm and heavily compacted to 50MPa as a minimum. Your base must be level and flat. In order for your crusher dust base to be a satisfactory foundation for your tank a border must be placed around all edges of the crusher dust. This is to ensure that over time your base does not erode or become damaged by substantial rain or burrowing animals. The slab must be a minimum of 150mm wider and 150mm longer than your water tank before adding the border. Crusher dust bases are only suitable for round tanks that are considered large in diameter. Your tank can be placed on this base and filled with water straight away. As a preventative measure to avoid erosion, it is recommended to spread coarse aggregate over any exposed crusher dust once the tank has been positioned.



## Stand

If you have decided to elevate your tank using a manufactured stand it must be certified by a structural engineer to ensure that the foundation is strong enough to support your tanks weight and that construction and footing is satisfactory for the tank. Your tank stand must have a flat, smooth and level surface.

A gap of no more than 20mm between each board is allowed.

If the area you wish to place your tank is on an incline/decline it is permitted for the legs of the stand to be established with differing lengths.