

GALVANISED STEEL WATER STORAGE TANK SPECIFICATIONS SHEET

The Southern Cross steel water storage tank shall be galvanised steel made ___ mm diameter x ___ mm high with an effective capacity of ___ litres. The tank bottom shall be 1.55mm thick galvanized sheets with all joints lapped and bolted at 60mm centre with 10mm diameter galvanised Bolts with a washer under the nut. The tank sides shall be constructed from galvanised steel rings and galvanised batten framework onto which 1.55mm galvanized sheets panels are bolted. The panels consist of galvanized steel sheets supplied by BHP. A watertight seal is obtained at all joints using rubber-sealing strips between the lapped sheets.

All Tanks Shall Comply with Australian Standards:

AS 4100 STEEL STRUCTURES CODE
AS 1170 PT. 4 EARTHQUAKE LOADING CODE
AS 1170 PT. 2 WIND LOADING CODE
AS/NZS 4600 COLD FORMED STEEL STRUCTURES
CODE

AS/NZS 4680 HOT DIP GALVANIZING CODE
AS 1657 LADDERS AND PLATFORM CODE
AS3600 CONCRETE STRUCTURES CODE

If applicable:

The tank shall have a flat / low pitch top consisting of BHP galvanized steel framework, which is covered with BHP steel decking. It shall also include a 600mm square lockable manhole, and fixed or rotary Vents, as required to suit application.

MATERIAL SPECIFICATIONS:

Tank Structure:

* Wall and Floor sheets: Wall and floor is fabricated from zincform Z600, G275 galvanized BHP steel sheet - 1.55mm thick base sheet.

* Wall Frame including rings, bands, inside & outside battens, inside and outside fishplates: Fabricated from Grade 300 hot rolled steel sections, Hot Dip galvanized after fabrication, coating is 450g/m side minimum.

* Rubber Sealing Strips: Rubber Sealing Strips are made from ethylene propylene. This material is a high-grade synthetic rubber and provides a very positive seal or a natural rubber alternative

* Flat (or Low Pitch) Roof Material Specifications: Support Posts, base plates & brackets - fabricated from Grade 300 hot rolled steel sections, hot Dip galvanized after fabrication. Purlins - rollformed from Hot Dip galvanized steel sheet.

* Bolts, nuts and washers: Commercial grade Hot Dip galvanized steel with metric coarse threads.

* Internal and External Ladders: Fabricated from Grade 300 hot rolled steel sections, Hot Dip galvanized after fabrication. All ladders conform to AS 1657.

Roof:

- Zinalume Sheeting: Z350 zinc coated Sheeting - rollformed profiled BHP roof sheet made from Zinc / Aluminum Alloy coated steel sheet complying with AS 1397:2011.

- Colorbond Sheeting: Colorbond is prepainted steel for exterior roofing, the painting complies with AS/NZS 2728:2013 and the steel base is an Aluminum/Zinc alloy-coated steel complying with AS 1397:2011.