



ORION
AUSTRALIA

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RAINWATER TANK INSTALLATION GUIDE

IMPORTANT INFORMATION

PLEASE READ CAREFULLY

Orion Australia P/L Rainwater Tanks are manufactured in accordance with AS2070 and AS/NZ4766 standards.

Below are some general considerations regarding collection and storage of drinking water in Rainwater Tanks:

COLLECTION OF RAINWATER:

Rainwater for drinking purposes should not be collected from recently painted roofs (until after the first few rainfalls), timber roofs preserved with chemicals, roofs coated with lead flashings, lead-based paints or tar-based coating or parts of roofs near flues from solid flued heaters. Rainwater for drinking purposes may be collected from roof types other than those identified above provided the roof and associated gutters are kept clean of leaves, animal remains, dust and other debris. Gutters and pipes must be kept clean by installing screens or leaf diverters between the roof and the water tank. The system should incorporate a 'first flush system' or other diversion system that will prevent the first flush of water entering the tank.

OPENINGS IN TANKS:

All openings to tanks used for drinking water purposes must be sealed so that insects, small animals, birds and sunlight cannot enter the tanks, to minimise the growth of algae, and to prevent unauthorised access.

MAINTENANCE:

Tanks used for drinking water purposes should be regularly maintained by cleaning out accumulated sludge from the base every 2-3 years. For detailed advice on desludging and maintaining tanks refer to the Tasmanian Plumbing Code, enHealth Guidelines or HB230.

COMMISSIONING:

Before using the water from your tank for drinking purposes for the first time, the water must be disinfected. Disinfection of the water must be done by one or more of the following methods

- chlorinating
- filtration
- ultraviolet disinfection.

More information on disinfection procedures can be obtained from the Tasmanian Plumbing Code.

SLUDGE VALVES:

A sludge valve (separate valve for de-sludging of tanks) must be fitted when the capacity of the tank exceeds 500L, and the tank is used for drinking water purposes. The minimum size of the valve must be not less than half the outlet pipe size and not less than DN40. All Orion Australia Rainwater Tanks are supplied with a 40mm plastic-welded outlet for this purpose, to which a valve can be fitted (the 40mm outlet is supplied with a plug installed for hygiene). It is the responsibility of the installer to supply and fit the sludge valve if the tank is to be used for drinking water purposes.

TANK LABELLING:

From 1 July 2013, it is a requirement to provide marking of tanks manufactured for use in drinking water supply i.e. rain water tank used in installations intended to supply water for human consumption, food preparation, food utensil washing or personal hygiene. The marking requirements include the intended use identified with not less than two permanent notices attached to each tank in readily visible positions, one on the front of the tank and one on the cover. The notices must:

- be not less than 450 mm × 250 mm in size;
- have a red background;
- have the text in white, capital letters of not less than 25 mm in height;
- have an identification in accordance with AS/NZS 2865 where applicable.

Tanks holding drinking water must carry the following warning: WARNING: DRINKING WATER

RAIN TANK INSTALLATION INSTRUCTIONS

GENERAL CONSIDERATIONS

It is the responsibility of the Purchaser to ensure that the tank is suitable for the intended application and position, and that any base, stands, pipework and other installations meet local government regulations.

- Orion Australia Pty Ltd does not accept any responsibility for the preparation of tank sites of the installation of its products. Correct tank site preparation and maintenance are the responsibility of the purchaser.
- Upon delivery, it is the purchaser's responsibility to ensure the tank is secured.
- The capacity of tank overflow(s) must equal or exceed the capacity of inlet pipe(s).
- Tank outlets must not be subject to undue force, e.g. over-tightening

INSTALLATION ON THE GROUND

- Orion Australia Pty Ltd recommends that when installing tanks directly on the ground, that a concrete base is used.
- Ensure that the tank base is level, so as not to cause any undue stresses on the tank.
- Should a base of gravel, sand or other material be used, the purchaser must ensure the base material is contained in such a way that it cannot be washed away or otherwise removed from beneath the tank. A minimum depth of 75mm of compacted base material is needed between the base of the tank and the soil beneath.
- The tank base must be a minimum of 100mm larger in diameter than the tank/s placed upon it.
- It is the responsibility of the purchaser to ensure that the base is adequate, and Orion Australia Pty Ltd accepts no responsibility for failure due to inadequate construction of a proper tank base.

INSTALLATION ON A TANK STAND

- If the tank is to be installed on a stand, it is the responsibility of the purchaser to ensure that any constructions meet local government regulations.
- It is the responsibility of the purchaser to ensure that design and construction of the stand are adequate for the total weight involved (remember that water weighs 1 kilogram per litre).
- Maximum gap between decking slats should be 20mm, and adequate support must be provided at intermediate points along the lengths of the slats.
- If using a wall mounted stand, ensure the wall and fastenings are adequate for the weight involved.
- The tank stand must be no smaller in diameter than the tank/s placed upon it.

All tank stands should be regularly inspected, paying particular attention to the condition of any timber.

MINOR BULGING AND MOVEMENT

As tank fills, slight bulging may occur, especially at the base. This is due to the fact that the walls of the tank are taking up inward stresses.

SPECIAL NOTES REGARDING MODELS SDT1000 AND PJT2000

The slim shape of the Slimline models SDT1000 and PJT2000 increases the risk of toppling. It is essential to guard against tanks being able to topple, by fastening the top of the tank to a suitable adjacent structure. A bracket and bolt are supplied in the parts prepack; the roof of the tank has integral brass insert threads to which the bracket can be bolted. Secure bracket to the wall, using appropriate fasteners. FAILURE TO PROPERLY SECURE TANK COULD RESULT IN SERIOUS INJURY OR DEATH, and will void warranty.

INSTALLATION OF OVERFLOW

- The tank will normally be supplied with a factory-cut, 102mm diameter overflow hole.
- In the parts pre-pack there will be a rubber Rapidseal – insert this into the overflow hole.
- Next, in the end of a piece of 90mm PVC stormwater pipe (minimum pipe length 120mm) put a set of four “V-cuts”, about 50mm long, spaced around the circumference of the pipe as shown in Diagram A.
- Push the cut end of the 90mm PVC pipe through the Rapidseal until the cuts are completely inside the tank – the V-cuts allow the end of the stormwater pipe to flex inwards and overlap slightly as the pipe is inserted through the Rapidseal. A little Vaseline, soap or detergent will assist with lubrication.
- Trim any excess pipe outside as required to join to the overflow piping. See Diagram B for the assembled view.



DIAGRAM A

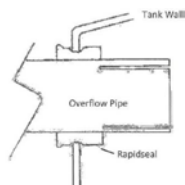


DIAGRAM B

90MM OVERFLOW STRAINER

- In most packs a 90mm PVC overflow strainer is supplied. This is only used in situations where the overflow is not plumbed into stormwater, its purpose being to prevent insects etc. getting into the tank via the overflow.
- If required, push it into the outflow end of the stormwater pipe; do not glue it in, as it must be removed and dusted down periodically.

STRAINER COVER

- If the tank is to be used for drinking water purposes, a solid cover must be fitted over the inlet strainer to prevent sunlight entering the tank via the inlet strainer. Strainer covers are available as an accessory kit item from Orion Australia P/L. The strainer cover must be installed prior to commissioning the tank for drinking water purposes.

LABELLING REQUIREMENTS

It is a regulatory requirement that any tanks used for Drinking Water are identified with 2x plaques stating WARNING: DRINKING WATER (see pg.1, “Tank Labelling”). Conforming plaques are available from Orion Australia P/L as an accessory kit item. If the Rainwater Tank is to be used for Drinking Water, *it is the responsibility of the installer* to attach one such plaque in a clearly visible place on the front of the tank, utilising either the lug holes (in round tanks – Diagram C) or a bolt screwed into the spare brass insert (Slimline Tanks – Diagram D1 and D2) as the anchor point for the cable that holds the plaque; and a second plaque screwed to the inlet strainer cover. These plaques must remain visible and not be removed for the lifetime of the tank, while it is used for drinking water. Should damage occur to a labelling plaque, it must be replaced with a conforming plaque.

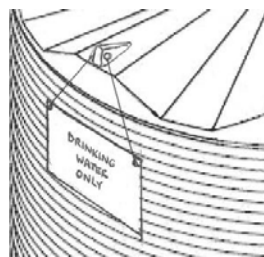


DIAGRAM C

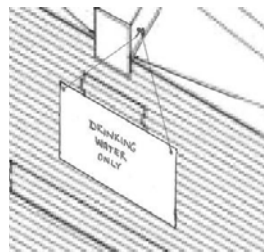


DIAGRAM D1

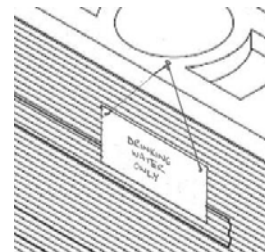


DIAGRAM D2

If you have any queries regarding products manufactured by Orion Australia P/L, please contact a member of our Customer Service Team by phone on 1800 752 784, by fax on (03) 6362 2213, or email sales@orionaustralia.com.au

EXPRESS WARRANTY CONDITIONS – ORION RAINWATER TANKS

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This tank has been manufactured for the storage of drinking water and all materials used are suitable for contact with drinking water.

1. TERMS OF WARRANTY

- 1.1 Subject to clauses 2, 3, and 4, the manufacturer warrants to the original purchaser that Polyethylene Water Tanks will be free from material defects caused during the manufacture process for a period of 10 years from the Purchase Date for Slimline Tanks, and 15 years for Round Tanks.
- 1.2 Subject to clauses 2, 3, and 4, the manufacturer warrants to the original purchaser that Aquaplate and Galvanized Water Tanks will be free from manufacturer's defects for a period of 10 years from the Purchase Date.
- 1.3 Subject to clauses 2, 3, and 4, the manufacturer warrants to the original purchaser that Aquaplate Water Tanks will be free from material defects for a period of 10 years from the Purchase Date, provided the tank is located more than 1000m from the coastline. Galvanized Water Tanks do not carry any warranty against material defects.

2. NON-EXCLUDABLE WARRANTIES

- 2.1 The manufacturer acknowledges that State and Federal legislation implies certain conditions and warranties into agreements for the supply and manufacture of goods which cannot be excluded, restricted or modified (Non-Excludable Warranties). The manufacturer does not exclude, restrict or modify any Non-Excludable Warranties.

3. EXCLUSION LIMITATION OF LIABILITY

- 3.1 Except for the Non-Excludable Warranties, the Manufacturer excludes all other conditions and warranties implied by:
 - a) Custom; or
 - b) The general law (including but without any liability for negligence); or
 - c) Statute.
- 3.2 The liability of the manufacturer under this Warranty is excluded to the extent that any defect has been caused or contributed by;
 - a) Any accident, contamination, tampering, willful damage, improper storage, improper use (including but without limitation the caring of water), or negligent act of, or omission by, any person other than the manufacturer;
 - b) The improper installation of the tank, or deterioration of the base on which it rests;
 - c) The use of that Tank for any other purpose that the static storage of potable water at ambient temperatures in one fixed position;
 - d) Any damage to the Tank caused by storm, tempest, washaway, landslide, mudslide, lightning, or any other phenomenon, vermin or other pests, and any undermining of the base of the Tank through any cause whatsoever;
 - e) The repositioning of the Tank from its original installation;
 - f) Weathering or degradation of that Tank due to extreme climate conditions; or
 - g) Any staining that may occur from trees or ash fall-out from fires or such like.

3.3 Without limiting the generality of clause 3.2:

- a) *The manufacturer will not be liable for any personal injury, accidental damages, consequential losses, loss of water, loss of profit or any like claims whatsoever arising from any use of, or incidental to, the Tank; and*
- b) To the extent that any component or material (including, but without limitation the polyethylene) used in the manufacture of the Tank is supplied and/or manufactured by a third party, the liability of the Manufacturer is limited to the Manufacturer's right of redress (if any) against the third party supplier/manufacture.

3.4 The liability of the Manufacture under this Warranty is limited to, at the Manufacturer's discretion:

- a) Repairing the Tank; or
- b) Provision of a replacement tank to the original delivery address to which the Manufacturer delivered the tank; or
- c) Reimbursing the Purchaser on a pro-rata basis a sum equal to the Purchaser's price, less 10% of the Purchase Price for each year since the Purchase Date.

The responsibility and charges for other works relating to replacement of tanks is the responsibility of the Purchaser, and is not covered within the scope of the Warranty Terms and Conditions.

4. PROOF OF PURCHASE

The original invoice for the Tank must be provided by the Purchaser when making a claim under this Warranty. To initiate a claim please contact Orion Australia Pty Ltd by post, phone, fax, or email, providing the original invoice and details of the issue for which the claim is being made.

5. DEFINITIONS

For the purpose of this Warranty the following definitional apply:

- a) Manufacturer means Orion Australia Pty Ltd.
- b) Purchase Date means the date upon which the Tank was purchased by the original purchaser.
- c) Purchase Price means the actual price paid for the Tank by the original purchaser.
- d) Purchaser means the original purchaser of the Tank.
- e) Tank means the rainwater tank manufactured by the Manufacturer and purchased by the Purchaser being the subject matter of this Warranty.
- f) Warranty means this written warranty.

6. GOVERNING LAW

This warranty will be governed by the laws of the jurisdiction in which the Tank is supplied to the Purchaser.

DATE OF PURCHASE: _____

PLACE OF PURCHASE: _____

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