

FIRST CHOICE YOUR FIRST CHOICE
YOUR FIRST CHOICE
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RAPID PLAS

RAINWATER TANKS

Installation Guide



This version October 2011

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YOUR FIRST CHOICE

Best Quality...Best Value...Best Customer Care

INSTALLING YOUR TANK SAFELY

Congratulations on purchasing a Rapid Plas rainwater tank. If this product is correctly installed and regularly maintained, it will give you trouble free service for years to come.

*CORRECT TANK INSTALLATION IS THE SOLE
RESPONSIBILITY OF THE PURCHASER
(Rapid Plas does not install tanks).*

SITE SELECTION

IMPORTANT: When full of water (depending on size) your tank will weigh up to 31 tonnes. Therefore, it is very important to select a suitably located site where special attention to a properly constructed and compacted base can be ensured. In the rare incidence of tank deterioration (or failure), the majority of cases can be traced back to an unstable base, which in turn can void the Warranty.

Major site selection requirements include the following:

- (a) Stable ground not subject to erosion or landslides
- (b) Suitability to sustain the relevant loading (allow 1 tonne for every 1000 litres of tank capacity).
- (c) Maintain any setbacks from boundaries as required by local Council regulations and the relevant building codes.

INSTALLATION STEPS

1. Preparing the Tank Base

Modular slimline tanks **MUST** be installed on a concrete base to prevent movement between the modules.

(a) Concrete

A 75mm (3") reinforced concrete slab that is exactly level and flat in all directions, and is larger than the diameter/base dimensions of the tank. Ensure that the soil base is suitably compacted before pouring the concrete.

(b) Compacted Material

A 75 mm (3") pad of compacted crusher dust/road base which must be at least 600mm larger in diameter than the tank. The tank base must be free from any rocks or

stones or any sharp or foreign matter that may damage the base of the tank. This base must be thoroughly compacted and be exactly level and flat in all directions. The outsides of the base must be supported by a retaining wall of some kind to ensure that no erosion can occur through washout, vermin or any other factor.

(c) Tank Stand (as supplied by Rapid Plas)

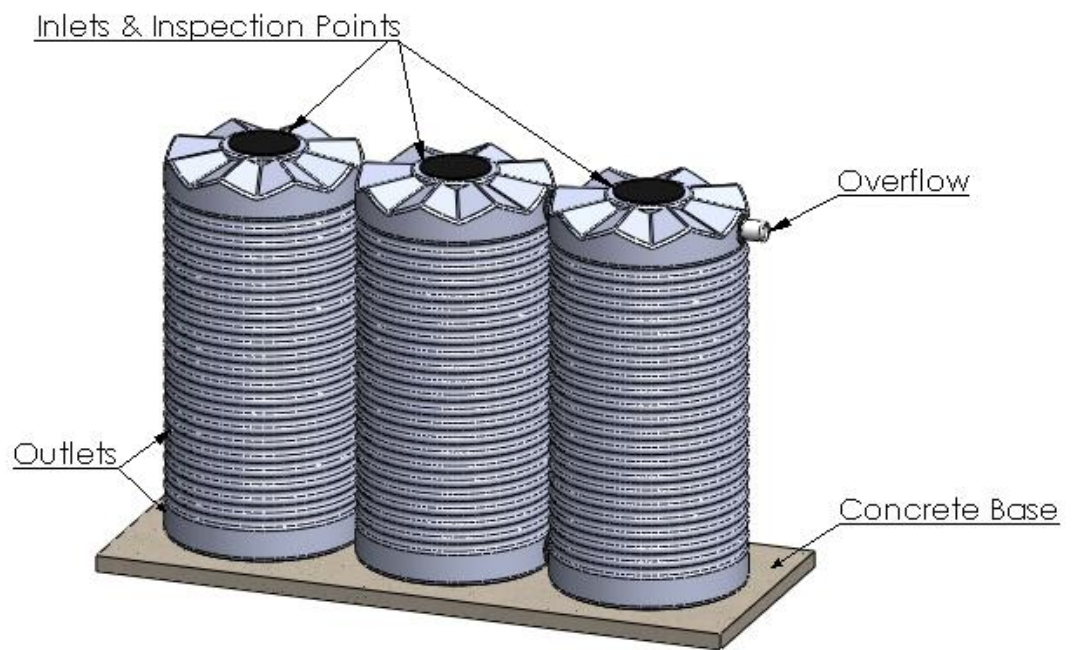
Ensure that the legs of the tank stand are properly secured on a concrete base to prevent the tank stand from moving over time. Tank stands (not supplied by Rapid Plas) for larger tanks **must ensure complete support to the whole base of the tank** and must be designed by a structural engineer.

FAILURE TO PROVIDE A STABLE BASE WILL VOID WARRANTY.

Diagram 1.



Diagram 2.



2. Delivering the Tank to the Site (Large tanks only)

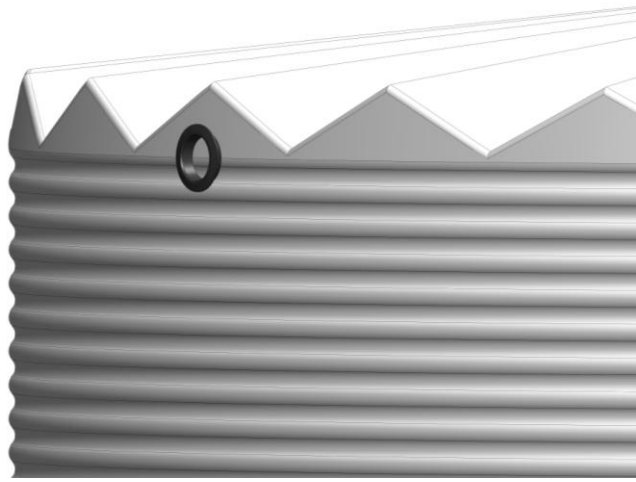
The driver needs clear access for a truck and trailer which is 19 metres long, 3.5 metres wide and 5 metres high for delivering the tank. Besides the driver, 2 or 3 people are needed to handle and place the tank on the pad. Upon delivery, IT IS THE CUSTOMER'S RESPONSIBILITY to secure the tank by tying it down with suitable ropes.

3. Fit the Overflow Piping

Overflow Fitting Instructions (using RAPIDSEAL – the black seal in the installation kit):

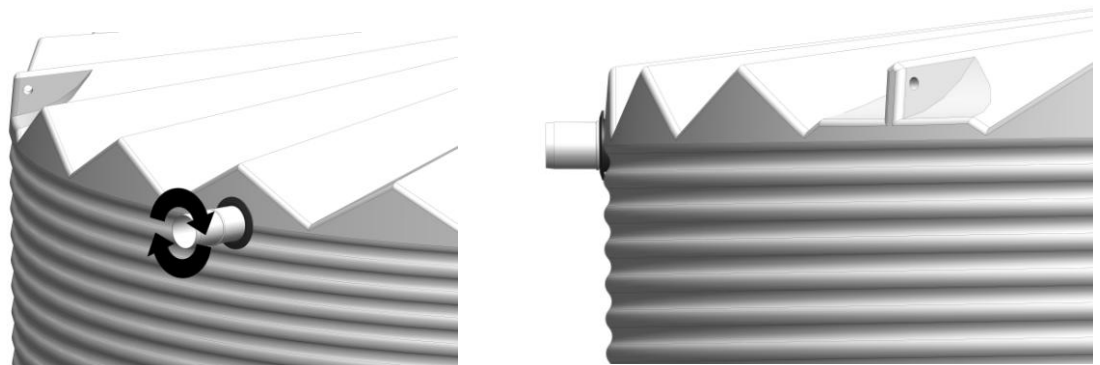
- (a) If the tank has been pre-drilled, start at Step (c). Otherwise, determine the required position for the 90mm pipe connection (overflow) by holding the RAPIDSEAL against the tank and marking the centre. (Refer Diagram 3)

Diagram 3.



- (b) Drill with a 102mm hole saw and remove any loose shavings by hand. DO NOT use a knife or scraping tool.
- (c) Insert RAPIDSEAL into the hole from the outside of the tank. It should fit snugly into the hole.
- (d) Lubricate one end of the 90mm overflow outlet (RJ90) with a liquid soap (dishwasher detergent is recommended) and insert this end into the RAPIDSEAL with a slight twisting action. An even hit with a heavy mallet or a solid block of wood may be used to help insertion. The pipe should be a tight fit. (Refer Diagram 4)

Diagram 4.



- (e) Insert the 90mm overflow outlet until the ridged centre piece is flush against the outside of the RAPIDSEAL.
- (f) Piping should then be connected into the stormwater drainage system, or taken to a point well clear of the tank where it will not undermine the base.

(g) A polyolefin primer (eg. Loctite 770) can be used on the black polypropylene overflow outlets if required.

Remember that the quantity, size and capacity of the overflow pipes must be equal to that of the inlet pipes. Failure to ensure this may lead to erosion of the base, as water may overflow from the inlet strainer. Additional overflow kits (RS90K) can be purchased separately as required. RAPIDSEALS can be fitted through slight curves and the tank corrugations as well as through flat sections.

4. Supporting of Pipe work

All pipe work must be supported so that there is no added strain on the tank. Never support pipe work of any description off the tank. Support the pipe work off the tank stand where applicable.

5. Installing a Ball Valve/Fittings

NB! Always fit a plastic tapered treaded fitting into the plastic thread of the tank as metal fittings have been know to cut a cross thread. A flexible hose of at least 300mm (12”) in length must be installed between the ball valve/tank outlet and any subsequent pipe work. (Refer Diagram 1. Page 4). This is to avoid strain on the Tank should the pipe work move. **Apply thread tape to all fittings to prevent leakage.**

6. IMPORTANT!

Flush out the tank before proceeding further. Remove all outlet bung/s, open ball valves (if fitted) and flush out tank to remove any dust or foreign matter before connecting further pipe work. Ensure that all fittings are fitted with a generous amount of thread tape. Do not over tighten any fittings as this can damage the thread. *Plastic shavings can damage pumps or other appliances fitted down the line if not flushed out thoroughly before connection.*

7. Secure the tank to the site

Once the tank is in position with all pipe work connected, fill with approximately 150 - 200mm of water. This water level should be maintained at all times to prevent the tank moving. If water is not available, use ropes to ensure that the tank will not be shifted by strong winds.

MAINTENANCE OF THE TANK

Regular checking and maintenance is the Owner's responsibility and is a condition of your Warranty. Some examples to be considered include the following:

- Regular cleaning of the inlet strainer
- Consistent inspection of the base, so that it is not eroded or the tank undermined.
- Checking of pipe work to ensure there are no leaks.

QUALITY OF TANK CONTENTS

Your tank is made from virgin food grade linear low density polyethylene, complying with AS2070 and AS4020, but the first time it has a little water in it, a taste may be present. It is harmless, but to remedy this, flush out the inside of the tank using a hose and allow the water to drain out.

There is no reason why this tank should not always deliver quality drinking water, but this is reliant on your regular maintenance. Rotting leaves in gutters will quite quickly contaminate the water. There is nothing in the polyethylene that could cause any pollution.

SAFETY INFORMATION

WARNING: If it is necessary to enter the tank, enter only in accordance with your State statutory Occupational Health & Safety Act & Regulations and the relevant Codes of Practice. You must complete a Risk Assessment before entering the tank to identify, assess and control the hazards. This is a confined space – **only persons trained in AS 2865-1995 “Safe Working in a Confined Space” may enter.** Ladders are to be firmly positioned inside and outside and an emergency response plan must be in place. **DO NOT** enter tank when the temperature is over 40°C. **ALWAYS** have an assistant present.

HAZARD IDENTIFICATION, RISK ASSESSMENT & CONTROL MEASURES FOR RAIN TANK INSTALLATIONS

Task (Installation Steps)	Hazards (Anything with the capacity or potential to harm)	Risk (Likelihood of hazard occurring & its severity)	Control Measures (Steps taken to eliminate the hazard or if not reasonably practicable, to control the hazard to its lowest level of risk)
1. Prepare Tank Base	Manual handling; plant, equipment and tools; UV rays; slips, trips and falls; visitors; animals, snakes; weather conditions	Low	Bend knees when lifting, use a two-person lift if load over 20 kg; follow manufacturer's instructions on how to use plant and equipment; clear work area before commencement; wear sun protection – hat, glasses, sunscreen; keep children & nonworking personnel away; take care-work to weather conditions.
2. Deliver the Tank	As above for 1; driving & depositing tank on site	Medium	As above for 1; clear access way for driver; two or three assistants for driver to handle tank.
3. Flush Out the Tank	As above for 1; fall from heights	Medium	As above for 1; if using ladder, follow manufacturer's safe use instructions; if working at heights over 2 m, must have fall arrest system in place.
4. Fit the Overflow Piping	As above for 3; chemicals	Medium	As above for 3; if hazardous substances used, follow MSDS
5. Supporting of Pipework	As above for 1	Low	As above for 1
6. Install Gate Valve/Tank Outlet	As above for 4	Low	As above for 4.
7. Secure the Tank to the Site	As above for 1; tank rollover; fall from heights	High	As above for 1; tie tank down or place 200 mm water inside; if using ladder, follow manufacturer's safe use instructions; if working at heights over 2 m, must have fall arrest system in place.
8. Tank Maintenance	As above for 1	Low	As above for 1.
9. Check Tank Contents	As above for 1	Low	As above for 1

EXPRESS WARRANTY CONDITIONS – RAINWATER TANKS

1. Terms of Warranty – Subject to clauses 2, 3 and 4, the Manufacturer warrants to the original purchaser that this tank will be free from material defects caused during the manufacturing process for a period of twenty years from the Purchase Date.

2. Non-Excludable Warranties

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. Exclusions 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 to by:

- a. any accident, contamination, tampering, wilful damage, improper storage, improper use (including but without limitation the carting 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 the Tank for any other purpose than 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 natural 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 the Tank due to extreme climatic 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, incidental damages, consequential losses, loss of water, loss of profit or any like claims whatsoever arising from any use of, or incidental to, or repairs 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/ manufacturer.

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

- a. replacing the Tank at a cost calculated on a **pro-rata basis** at a sum equal to the current retail price divided by twenty years, multiplied by each year since the purchase date; or
- b. in some cases the Tank may be repaired.

4. Proof of Purchase – The original invoice or other similar proof of purchase of the tank must be provided by the purchaser when making a claim under this Warranty. The warranty is only extended to the original purchaser.

5. Definitions – For the purpose of this Warranty the following definitions apply:

- a. **Current Retail Price** means the Manufacturer's recommended retail price of the replacement tank at the time of submitting a warranty claim
- b. **Manufacturer** means Rapid Plas Pty
- c. **Purchase Date** means the date upon which the tank was purchased 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.

WHILST EVERY CARE HAS BEEN TAKEN IN THE COMPILATION OF THIS INSTALLATION GUIDE, IT IS IMPOSSIBLE FOR US TO ENVISAGE EVERY CIRCUMSTANCE IN WHICH TANKS WILL BE INSTALLED. IT IS ESSENTIAL FOR THE INSTALLER TO USE COMMON SENSE AND SAFE PROCEDURES AT ALL TIMES. PLEASE CONTACT RAPID PLAS SHOULD ANY FURTHER ADVICE BE REQUIRED BEFORE PROCEEDING WITH THE INSTALLATION.

OWNERSHIP CERTIFICATE

Tank Size / Code: _____

Serial Number(s): _____

(You will find these details on the Base Plate – Each tank has a unique number, including each module of modular tanks)

Purchased From: _____

Installed By: _____

Purchase Date: / /

Installation Date: / /

REGISTER YOUR PRODUCT WARRANTY ONLINE

Website: www.rapidplas.com.au

Register Your Product here:

First name:*	<input type="text"/>
Surname:*	<input type="text"/>
Phone:*	<input type="text"/>
Fax:	<input type="text"/>
Email:	<input type="text"/>
Site address:*	<input type="text"/>
Postal address:	<input type="text"/>
Product code:*	<input type="text"/>

If you're registering multiple product warranties, please submit a separate form for each.

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COMPANY PROFILE
 Rapid Plas is a family owned and operated business which was established in 1990. Originally trading from a farm near Tamworth as Rapid Stock Equipment, the family now operates 3 separate businesses in NSW: Rapid Plas, Rapid Spray and Arrow Farmquip. With a background in farming, we know and understand the fundamental issues and opportunities of the farming industry today and are dedicated to providing optimum products and ultimate customer service to meet these needs.

Sign up For **OUR E-NEWS**
 Full Name...