





Company Profile

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Novaplas Australia is 100% Australian owned & operated and has been manufacturing Drainwell underground tanks for over 10 years.

Novaplas Australia is an environmentally conscious company doing our bit to save plastic from polluting our precious oceans and saving unnecessary landfill waste. That is why our Drainwell underground tanks are made from 100% Recycled Polypropylene which would otherwise end up in landfills or oceans.

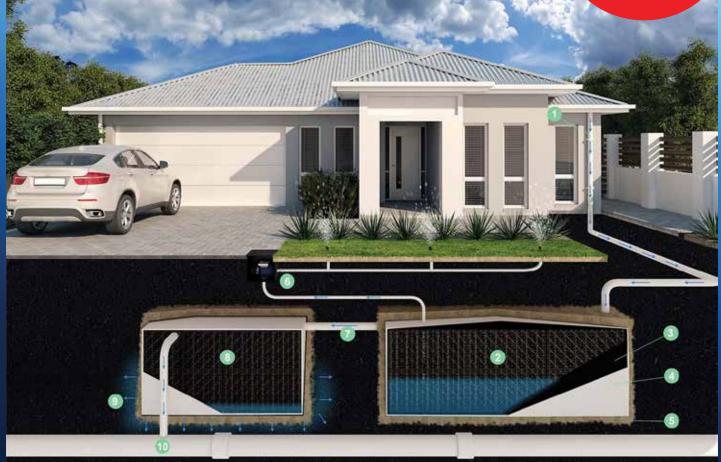
Drainwell underground tanks are used in many applications, including:

- Infiltration/Absorption Tanks
- Stormwater Detention Tanks
- Rainwater Harvesting Tanks
- **Roadside Swales**
- Septic Leach Drains/Effluent Lines

Drainwell underground tanks are installed below:

- **Shopping Centre Car Parking Areas**
- Industrial Warehouse Driveways
- **Sports Grounds**
- Residential Gardens and Driveways

Thank you for supporting **Australian Manufacturing!**



- 1. Water from Downpipe
- 2. Re-use Rainwater Harvesting Storage Tank
- 3. Poly Liner
- 4. Geotextile Fabric

- 5. Course Sand
- 6. Pump
- 8. Infiltration/Detention Tank
- 9. Infiltrating Water
- 10. Outlet to Stormwater



Features & Benefits

Strong Structural Design

Can be installed under driveways, carparks and other trafficable areas

Infiltration

Large permeable area including sides and ends

400mm

UV Stabilised

Increased product life

Australian Owned & Manufactured

Large stock inventory, minimal lead time

Large Volume with **Fewer Modules**

Projects require fewer modules resulting in less assembly time

Detention

Alleviates on-site and downstream flooding

Flat Pack Form

Easy to transport, save on bulky transport

Retention

Collect, store and reuse precious rainwater

Lightweight

Easy to handle,

Chemically Inert

will not be affected by harmful chemicals

no crane required



150mm Cut Out **Guide for DWV**

Simple pipe connection, less installation time



Trafficable

Increased utilisation of valuable land

Modular

Interlock vertically and position horizontally to create any shape and size

90mm Cut Out **Guide for DWV**

Simple pipe connection, less installation time





Residential Soakwells

Drainwell Plastic Soakwells are a modular DIY stormwater drainage cell. They can be installed under either trafficable or non-trafficable areas assuming the minimum cover requirement is achieved.

Drainwell Soakwells are only 440mm high and are an ideal high water table soakage solution. They consist of panels which are simply clipped together by hand. **Drainwell Soakwells** are light weight for easy handling and installation.

Drainwell Residential Soakwells can be supplied in a flat-pack kit form.

D.I.Y. Soakwell Kit













Commercial Infiltration Tanks

Drainwell **Infiltration Tanks** collect and release excess stormwater. The collected stormwater seeps back into the ground and recharges the natural aquifers.

Drainwell **Infiltration Tanks** are installed under concrete slabs, as well as under driveways, and under car parking areas. Drainwell **Infiltration Tanks** are a cube shape which is best for minimal excavation.

You will save up to 25% on excavation size and save up to 100% on graded stone purchases.

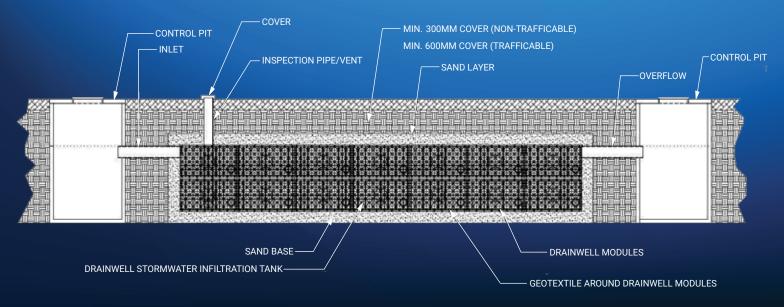




Infiltration Tank Cross Section









Stormwater Detention Tanks

Drainwell **Stormwater Detention** Tanks are Made in Australia from 100% recycled materials. These tanks are easy to install, providing a solution to many constraints on building sites.

Drainwell Stormwater Detention Tanks are a cube shape which is best for minimal excavation.

You will save up to 25% on excavation size and save up to 100% on graded stone purchases.

What is Stormwater Detention?

Stormwater Detention is the process of holding stormwater run-off from your site. The collection and slow release of stormwater is called **Stormwater Detention**.

Underground **Stormwater Detention** Tanks are used to control stormwater runoff. Stormwater runoff needs to be managed on commercial as well as residential sites. Excess runoff is a hazard especially during large rainfall events.

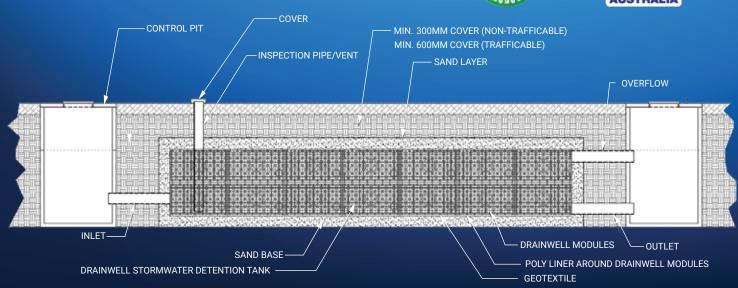




Detention Tank Cross Section









Septic Leach Drains/Effluent Waste

Drainwell Septic Leach Drains are an absorption trench or bed that provide dispersal of effluent from septic tanks. **Effluent** dispersal can be through percolation or evapotranspiration (ETS).

Seepage holes in the sides and base of the Drainwell modules assist with seepage of effluent.

Drainwell Septic Leach Drains are wrapped in geo cloth filter wrap to stop sand or debris from entering the leach drain modules.

The Septic Leach Drain design is governed by several factors. These factors can include:

- · the size of the leach drain,
- amount of liquid waste to be disposed of,
- type of soil around it,
- how it is built.









Example Layout

No. of Bedrooms 3 4 **HOUSE** 1800 Length (m) of Leach Drains **Divertor Box** Ø1520 Tank Diameter

Assembly Non-Trafficable



STEP 1:

Place 1 (One) Large Panel onto a firm flat surface. Insert 3 (Three) small panels with the 400mm side (side with long pins) into the large panel. Use a rubber mallet to lightly tap the panels together at every stage.



STEP 2:

Place a large panel on to the top of the small panels and lightly tap together.



STEP 3:

Turn module over, place a large panel on to the top and lightly tap together.



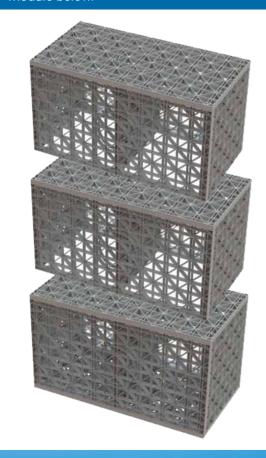
STEP 4:

Turn module over, place final panel on to the top and lightly tap together.



STACKING MODULES:

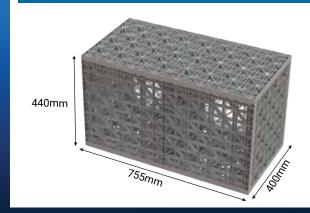
Assemble 1 complete module. For every module to be stacked on top, stop at Step 3. Connect 'Step 3' module on to roof of module below.



MODULE ORIENTATION:

When correctly assembled, the Drainwell module should be 755mm (Long) x 400mm (Wide) x 440mm (High).

It is very important that the modules are installed the correct way up. IE. 440mm high.





Assembly Trafficable



Place 1 (One) Large Panel onto a firm flat surface. Insert 4 (Four) small panels with the 400mm side (side with long pins) into the large panel. Use a rubber mallet to lightly tap the panels together at every stage.



STEP 2:

Place a large panel on to the top of the small panels and lightly tap together.



STEP 3:

Turn module over, place a large panel on to the top and lightly tap together.



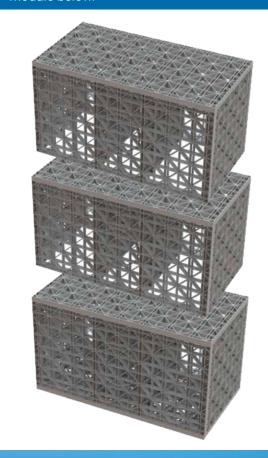
STEP 4:

Turn module over, place final panel on to the top and lightly tap together.



STACKING MODULES:

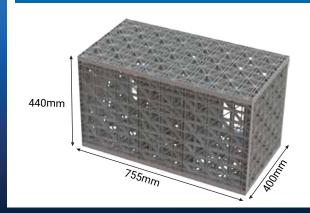
Assemble 1 complete module. For every module to be stacked on top, stop at Step 3. Connect 'Step 3' module on to roof of module below.



MODULE ORIENTATION:

When correctly assembled, the Drainwell module should be 755mm (Long) x 400mm (Wide) x 440mm (High).

It is very important that the modules are installed the correct way up. IE. 440mm high.





Basic Installation Guideline

INFILTRATION SYSTEM

- 1. Form a pit by excavation, according to specified dimensions.
- 2. Level base of pit and compact.
- 3. Backfill pit with a minimum 100mm of coarse sand, and compact.
- 4. Line base and walls of pit with Geotextile ensuring that seams have a minimum 200mm overlap. If required, seal joints with adhesive PVC tape. Allow sufficient Geotextile length to cover the surface of the Drainwell modules once positioned in pit.
- 5. Place assembled Drainwell modules into position, on top of Geotextile, inside pit. Ensure modules are placed the correct way up. IE. 440mm high.
- 6. If required, secure Drainwell modules together with clips or heavy duty cable ties.
- 7. Cut holes in the correct position for inlet and outlet pipes as required.
- 8. Tightly cover the sides and top of modules with Geotextile. Inlet/outlet pipes can be sealed with adhesive PVC tape, if required.
- 9. Backfill around sides and top of modules with clean coarse sand and compact according to engineers specifications.
- 10. Backfill a minimum 600mm of clean fill on top of modules and compact according to engineers specifications.

DETENTION/RETENTION SYSTEM

- 1. Follow steps 1-4 above.
- 2. Line base and walls of pit with Poly Liner. Seal joints with tape supplied. Allow sufficient liner length to cover the surface of the Drainwell modules once positioned in pit.
- 3. Install a second layer of Geotextile over the Poly Liner.
- 4. Follow steps 5-10 above.

ADDITIONAL INSTALLATION NOTES

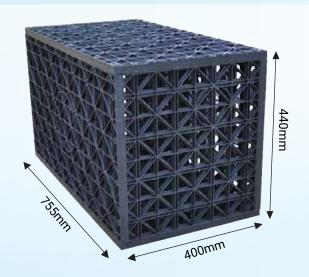
- 1. It is important that every Drainwell installation is fitted with an overflow or vent.
- 2. Any connection of inlet or outlet piping through liner should be made with a good seal around penetration point.
- 3. If pre-filtration of stormwater is required, please contact manufacturer.





Specification

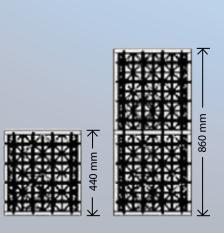
Drai	nwell™ Module	DW1592	
Dimensions (mm)	Length	755	
	Width	400	
	Height	440	
Volume (m3)		.132	
Tanks per m3		7.5	
Weight (Kg)	3 Panels	6.65	
	4 Panels	7.3	
	5 Panels	7.9	
Maximum Load (Tons/m2)	3 Panels (1 Internal)	23.66 t/m ²	
	4 Panels (2 Internal)	29.76 t/m²	
	5 Panels (3 Internal)	32.42 t/m²	
Internal Open Area		<95%	
Polymer Type		Polypropylene UV Stabilised	
Service Temp		-20°C to 120°C	
Chemically inert and not affected by Moulds and Algae			

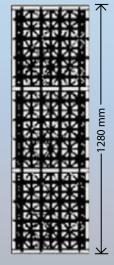


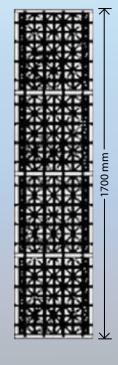


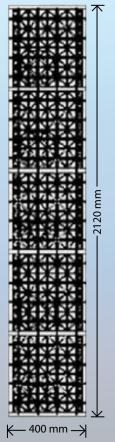


Drainwell Stacked Depths









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