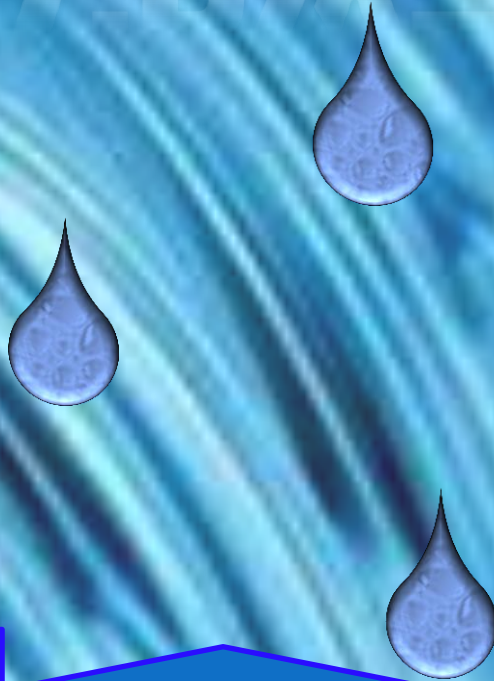
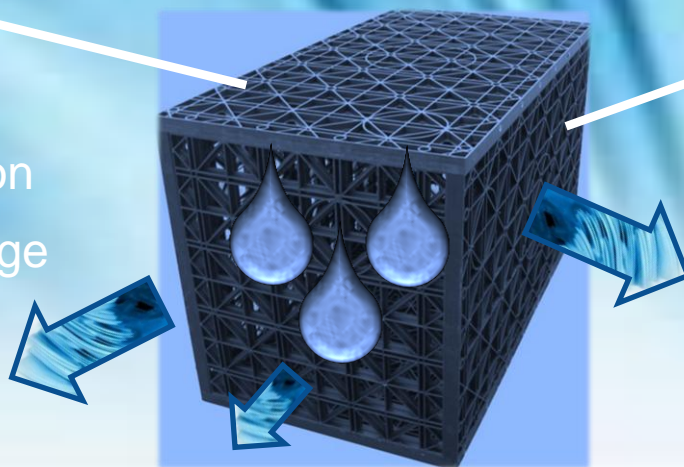


BRAINWELL™



Subsurface Water Management Systems

Retention
Infiltration
Storage



Ph: 08 6250 3000
novaplas.com.au

DRAINWELL SPECIFICATIONS

	<u>DW1592</u>	<u>DW1992</u>
Dimensions(mm)		
Length	755	755
Width	400	800
Height	437	437
Volume (m ³)	.132	.264
Tanks per m ³	7.58	3.7
Weight (kg)		
2 Inner Plates	6.1	--
3 Inner Plates	6.65	12.85
4 Inner Plates	7.3	14
5 Inner Plates	7.9	15.15
Maximum Load (Tons/m²)		
2 Inner Plates	--	--
3 Inner Plates	23.66 t/m ²	9.45 t/m ²
4 Inner Plates	29.76 t/m ²	9.61 t/m ²
5 Inner Plates	32.42 t/m ²	16.20 t/m ²
Internal Open Area	≤95%	≤95%
Polymer Type	Polypropylene	UV Stabilised
Service Temp	-20 C - 120 C	
Chemically Inert and not affected by Moulds and Algae		

Detain it! Retain it! Reuse it!

2

Specifications

Stormwater

Installation
Drainwell

Assembling
Instructions

Assembling
Tanks

Features &
Benefits

STORM WATER

RAINWELL™

As time progresses urban drainage systems are being more and more challenged by the increased run-off that is generated by increased urban densities. Approximately 15% of rainwater that falls on natural surfaces finds its way into waterways, but almost 90% of rainwater that falls on the house roofs and paved driveways finds its way into the local drainage system. The water volume that would otherwise be directed to ground water or natural stream flow is vastly diminished and our environment is being severely degraded.

As driveways are extended, outbuildings may be added, barbecue areas are developed and grassed areas may be replaced by feature paving. The impervious fraction of a residential site increases.

Only a few decades ago, designers of residential drainage systems expected approximately 40% of rainwater that fell on a house site would find its way into their drain.

By installing stormwater detention systems on site we can protect the drainage infrastructure. Approximately 85% of the rainwater that falls onto open ground percolates into the soil. A significant portion of this makes its way to the water table, but our ground water reserves are being depleted because urbanisation reduces the inflow and the increased use of bores that are sunk to enable the watering of gardens, parks, playing fields and golf links.

Captured run-off may be used to water your own garden or shared with neighbours and can be circulated through the toilet flushing systems these are further options.

GRASSRINGS® systems retain the permeability of natural surfaces. The trafficable area installed does not increase run-off when GRASSRINGS systems is installed over a base of coarse gravel, the interception rate will be higher than that of the open fields.

The GRASSRINGS system may be installed as part of a stormwater detention or retention system. The stormwater interception may be allowed to drain into the subsoil and released at a slower rate to the local drainage system or it may be captured for reuse, being stored in the Drainwell™ structural storage system.

This system of stormwater storage may be designed to capture excess run-off.

Detain it!

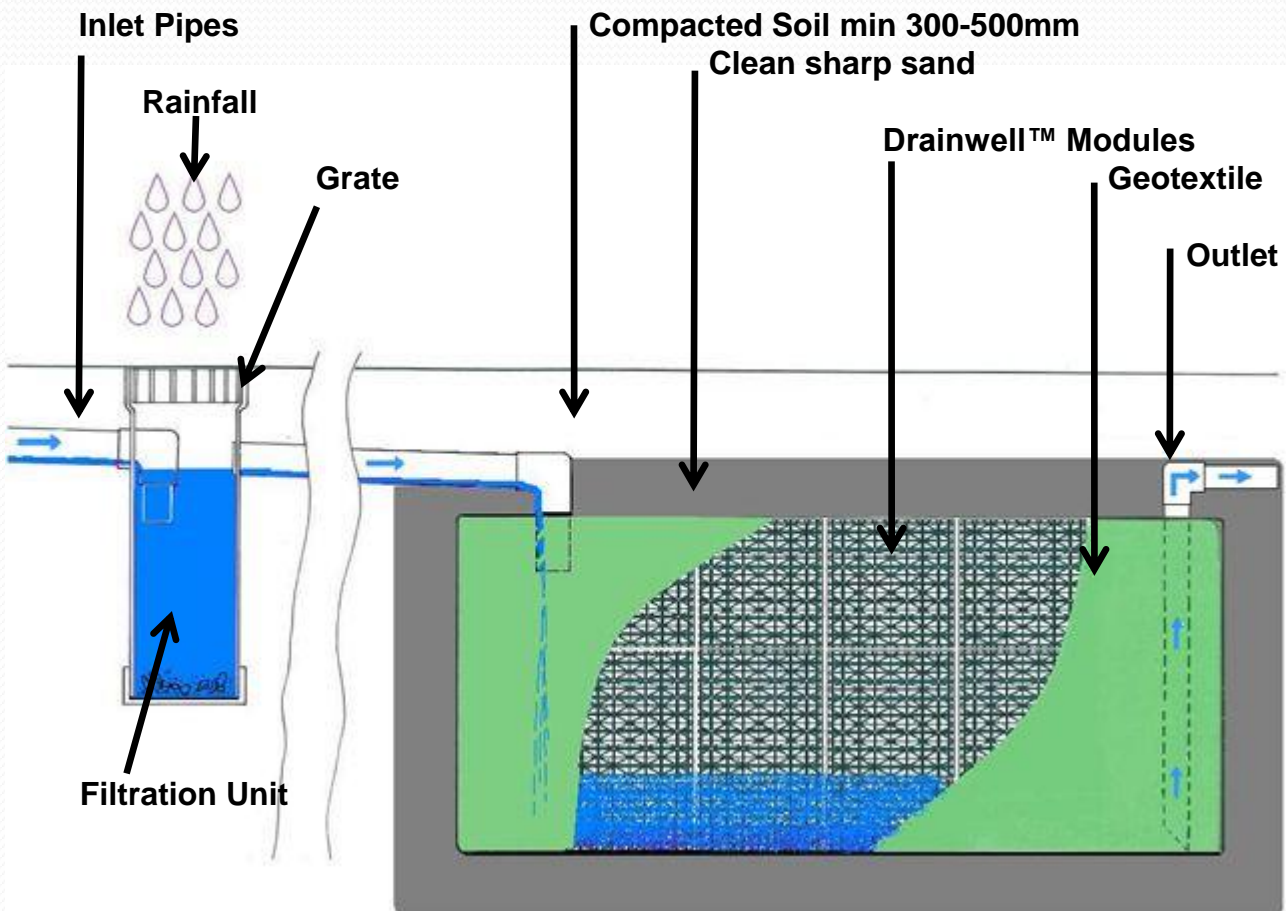
Retain it!

Reuse it!

DRAINWELL™

System Installation

1. Form a pit by excavation to specified dimensions.
2. Level base of pit and compact.
3. Back fill pit with min 100mm of coarse sand.
4. Line pit with Geotextile ensuring that seams have 200mm over lap also allow sufficient Geotextile length to cover surface of tank.
5. Place Drainwell™ modules into position onto Geotextile.
6. Secure modules together with clips or heavy duty ties (optional).
7. Tightly cover the sides and top of modules with Geotextile.
8. Backfill around sides and top of modules with clean coarse sand.
9. Compact to specifications ensuring there is a minimum cover of 300 – 500mm of cover above the tank modules.



Detain it! Retain it! Reuse it!

DRAINWELL™

Assembly Instructions for module DW1592 – 132L

STEP 1

Place one large panel **with pins** onto a firm flat surface.

Then insert the required amount of smaller panels with the 400mm side into the large panel.

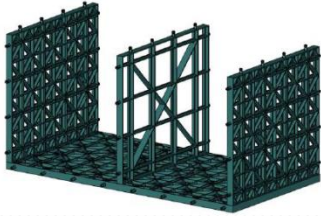


Figure A

Step 2

Locate a large panel **with pins** onto the top of the smaller panels.

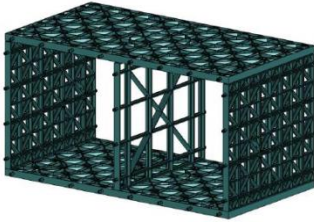


Figure B

STEP 3

Turn module over and locate a large panel **without pins** onto the top.

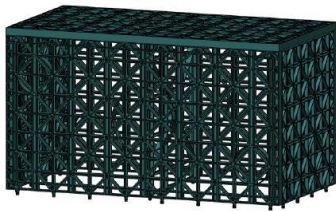


Figure C

STEP 4

Turn module over and locate final panel **without pins** onto the top. Figure D

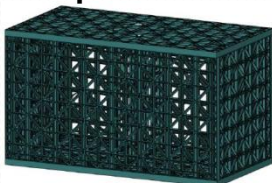


Figure D

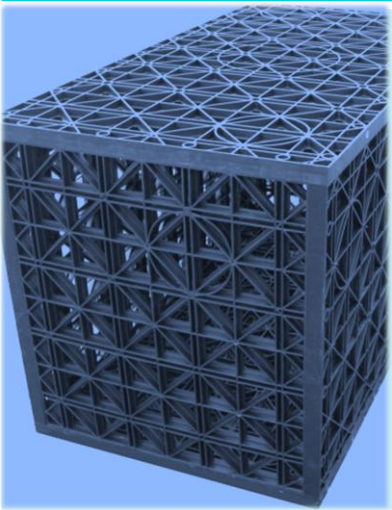
Rainwater Harvesting Tank

- 1) Assemble the modules together as per the instructions. Any moulding defect in the product should be recorded and set aside for replacement.
- 2) Place a layer of Geofabric on to the compacted sand base and up the sides of excavated pit allowing extra to cover top later.
- 3) Place liner inside pit ensuring it is debris free.
- 4) If design allows a precast screening pit to be installed ensure that there is sufficient protection to the liner while installing.
- 5) Install tank modules on top of one and another ensuring the 440mm side is in the vertical position and modules are tightly placed.
- 6) Pull liner across the top of the modules and secure to the top of the tanks.
- 7) Place the top liner over the tank then Geofabric.
- 8) Any connection of inlet or outlet piping through liner should be made with a good seal around penetration point.
- 9) Back fill around tank with care.
- 10) For trafficable tank it is recommended that there is a layer of woven Geotextile.
 - a. Backfill 200mm on top of tank
 - b. Compact area.
 - c. Install area with woven Geotextile.
 - d. Back fill remaining area.
 - e. Compact to engineers specifications.



DRAINWELL

Features and Benefits

DRAINWELL	FEATURES	BENEFITS
	<ul style="list-style-type: none"> •100% recycled •Light weight •Modular •95% void area •Strong •Service temperature, -20°C – 120°C •Polypropylene •Flat pack form • Made in Australia 	<ul style="list-style-type: none"> •Environmentally friendly •Simple to install •Trafficable •Cost effective •Chemically inert •Not affected by mould or algae •UV stabilised •Water saving •100% recyclable



Manufactured by Novaplas P/L
 17 Catalano Rd
 Canning Vale WA 6155
 Telephone: 08) 6250 3000
www.novaplas.com.au

The information in this booklet is provided only as suggested usage. Installation of this product should be carried out by competent contractors. Installation is out of the manufacturers control.

DRAINWELL™

- September 2011 -



Detain it! Retain it! Reuse it!

TESTIMONIALS

DRAINWELL™

Testimonials

-September 2011-

“Love them! The builders I have shown your product to, love them as well.”

Henry – Installer-

“All went well, we will be using them again. Thanks very much”

Craig – Plumber-

“I used the double modules – Really good! The modules are extremely stable, strong and solid”

-Infiltration Tank Installation Team -

“ The rings in the panels provide great guidance for cutting. Easy to cut and perfect fit for the pipes. This leaves a clean cut. Brilliant!”

Faheem – Plumber-

“These plastic soakwells are a lot stronger and easier to install. I have been using them for 8 months, and to walk away from every site with confidence that the customers aren't going to complain is just great!”

Daniel – Installer-

Comparison of Plastic Soakwells to Concrete Soakwells

“ A lot more manageable than the Concrete Soakwells”

Neil – Installer-

“ Very cost effective. You don't need all the equipment to install the plastic soakwells like you do for concrete ones.”

-Infiltration Tank Installation Team -

Detain it! Retain it! Reuse it!