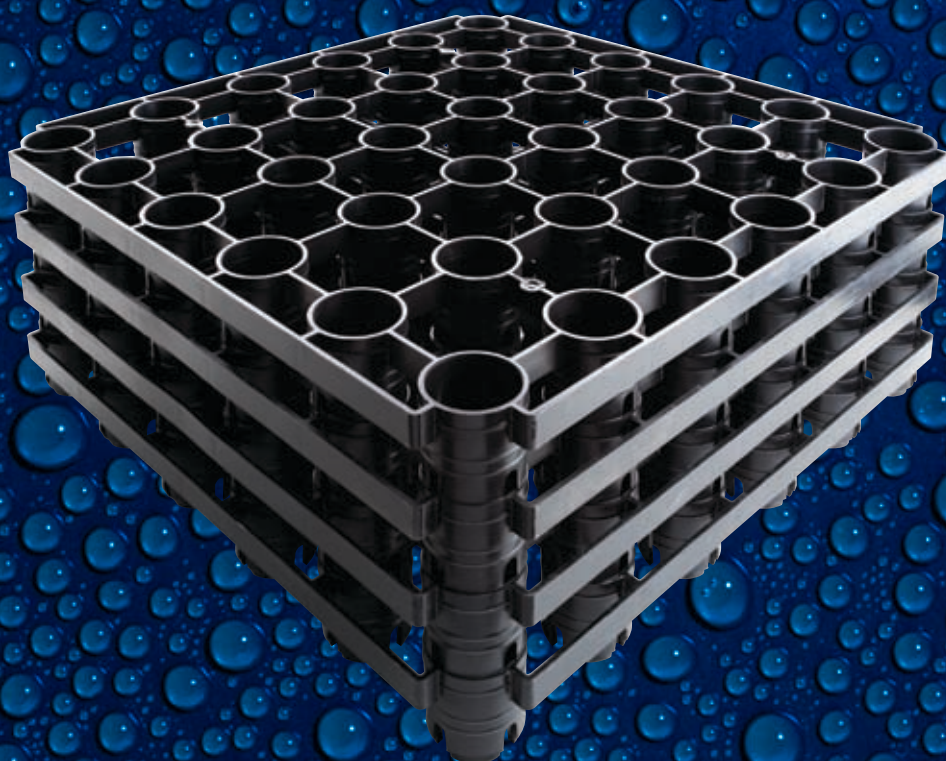


RAINSTORE³



***The latest in subsurface
water storage systems***

What is Rainstore³?

A world patented, multi-award winning stormwater management system, providing efficient and cost effective water storage on any scale.

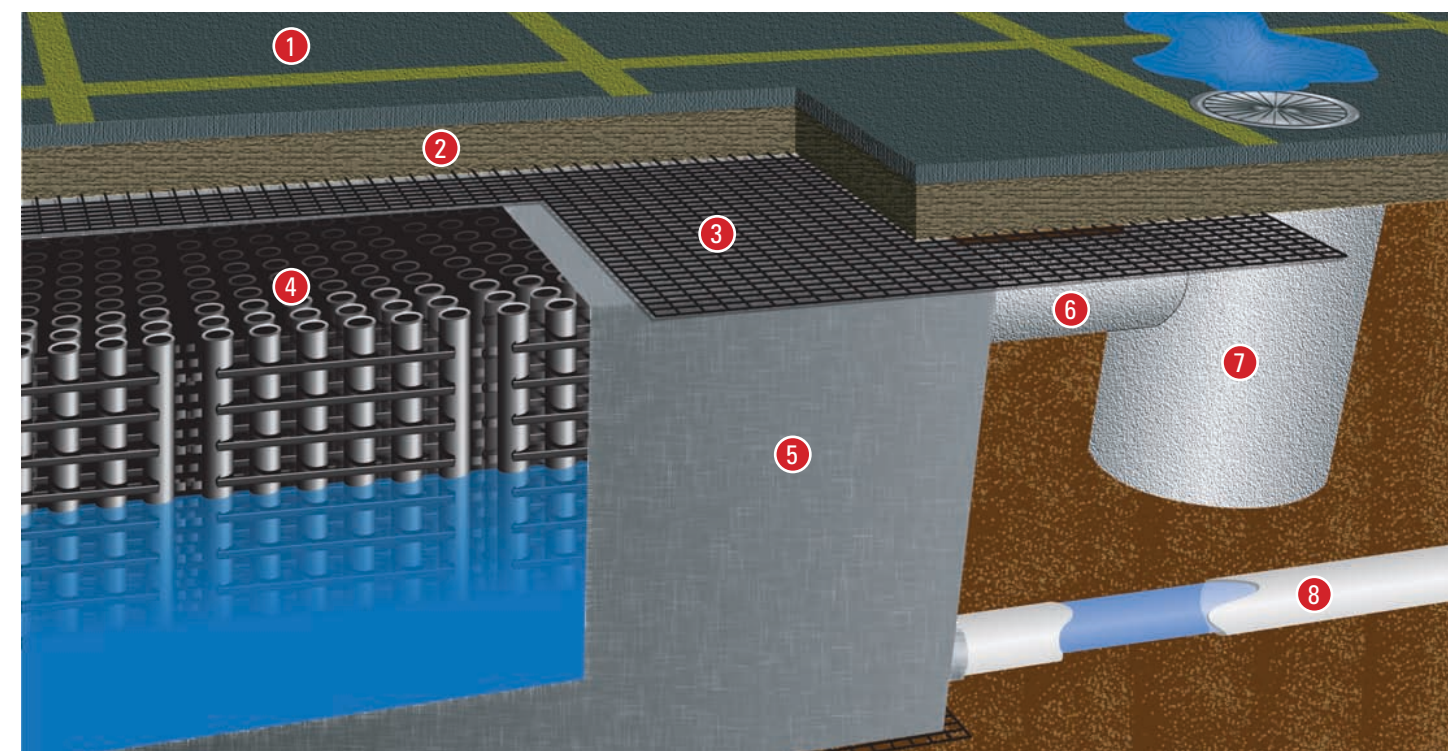
94% void support matrix comprising of 1m² x 100mm high modules purpose designed and manufactured entirely from high-grade recycled polypropylene.

Light weight modules interlock vertically creating m² footprint cells which are stacked to design height side by side to plan, each with a load bearing capacity of 78 tonnes – able to carry any road legal vehicle.

Assembled cells are enveloped in a sealed, heavy-duty polypropylene liner and buried. Inlet/outlet, filtration/pumps/access shafts are easily incorporated.

As little as 300mm of compacted structural top backfill is then covered with a surface of choice – concrete or bitumen driveways, truck parking, playing fields or even under the garage slab! The system is immediately trafficable.

Rainstore³ has the highest percentage optimisation of excavation and the lowest percentage storage void (loss due to internal structures) of any conventional or modular buried structural water storage systems currently available.



Why Rainstore³?

- Rainstore³ maximises potential site water storage while maximising surface use and aesthetics, and has a life expectancy of at least 70 years.
- Installation can be achieved in hours rather than weeks with the surface immediately trafficable – a bonus to construction schedules.
- Exceptional design flexibility, very high excavation to storage ratio, on-site handling ease, rapid installation (optional delivery to site pre-assembled), ensure huge cost benefits.
- Rainstore³ systems can be virtually any shape from under a cubic metre to megalitres and can be customised to meet difficult site criteria including slopes.
- Manufactured in Australia by Invisible Structures Pty Ltd from totally recycled, inert polypropylene to ISO 9002 and covered by a three year warranty.

- | | |
|--------------------------|---|
| 1 Surface Pavement | 5 Geotextile Filter Fabric or Geomembrane |
| 2 Base Course | 6 Inlet Pipe |
| 3 Geogrid | 7 Sediment Filter |
| 4 Rainstore ³ | 8 Outlet Pipe |

How does it work?

Much like any other sub-surface storage system but with some surprises!

This brilliant concept can be adapted to meet the most difficult site conditions including slopes.

Tanks can be as shallow as 100mm (high water table or rocky sub base) or as deep as 2.8m and spread over any surface footprint.

It can even be “above grade”, incorporated within mounds of earth – golf course or other landscaping, spectator mounds adjacent to playing fields.

Combined with appropriate filtration systems, high-grade water can be securely retained on-site, out of sight, for any non-potable use.

The light-weight polypropylene modules can be easily cut to shape enabling very wide design flexibility. Whole sections may be omitted to accommodate access shaft with a ladder, submersible pump, etc. with no effect on the systems’s structural integrity.

Installation

- 1 Simply excavate and lay geo-grid over compacted base.
- 2 For retention, a heavy-duty membrane, protected by geo-textile, is laid in the excavation. For detention or soakage pits, etc. use only geo-textile.
- 3 Assembled cells are stacked in place, with inlet/outlet, filter and pump easily incorporated according to plan.



Module Specifications

Manufactured	Injection Moulded
Composition	UV Protected Recycled Polypropylene
Module Size	1.00m ²
Delivered size	1m ² modules or pre-assembled cells
Weight	8kg each
Height	100mm
Useable Volume	94%
Load Capacity	>800kPa (all road-legal vehicles)
Connection	Positive Interlock System
Colour	Black

- 4 Geo materials are drawn up and sealed in place and the structure is backfilled.
- 5 Crushed rock cover fill is compacted and final surface finish applied – a concrete slab, roadway, parking bays, landscaping or playing field.



RAINSTORE³

Functions

Rainstore³ has a diverse array of functions, making it useful in many applications:

- Subsurface water storage
- High load bearing structure
- Storm water pollution filtration and management
- Storm water collection and recycling



Applications

Rainstore³ is a cost effective, functional and environmentally attractive option for the following applications:

- Parking areas
- Landscaping
- Driveways
- Irrigation
- Recreation areas
- Fire protection
- Parks and gardens
- Industrial hose down



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Other products available from Invisible Structures

GRAVELPAVE²

*Holds gravel in place for
high-traffic porous parking areas*

GRASSPAVE²

*The paving choice that protects
and enhances the environment*

DRAINCORE²

*Heavy-duty subsurface void
for water drainage/air filtration*

SLOPETAME²

*Three dimensional blankets
to contain slope soil*

The details given in this brochure are intended only as a general guide in specifying Invisible Structures Pty Ltd products. Actual details should be developed by the project designers taking into account the specific circumstances of the intended application. Invisible Structures Pty Ltd assumes no responsibility for improper reliance upon misuse of the data herein. Product design and specification are subject to change without further notice. All material contained within this brochure is Copyright, and belongs to Invisible Structures Pty Ltd. No part of this brochure may be reproduced or transmitted in any form or by any means, without the prior written permission of Invisible Structures Pty Ltd. Invisible Structures Pty Ltd products are Patented and Patent Pending in Australia and other countries.

Made in Australia. Patent Number 724847

