

Stormcell® Storage System

Store and infiltrate stormwater and surface water even on difficult or irregular sites

Product Summary

Stormcell® is a high-capacity, low-maintenance modular stormwater and surface water storage system that can be customised to suit shallow, deep or irregular sites.

Its flexible modular structure is light but strong, making it ideal for use beneath areas such as roads, car parks and industrial areas.

With a design that ensures that solids are washed through the pipework rather than into the storage area, the system requires very little maintenance.

Applications

- » Sustainable Drainage (SuDS) schemes.
- » Retrofit SuDS schemes.
- » Attenuation schemes.
- » Highways and Infrastructure projects.
- » Car parks and Park & Ride schemes.
- » Housing developments.
- » Commercial Developments.
- » Schools and Public / Civil schemes.
- » Aquifer re-charge.

Benefits

Design storage for even the most difficult of sites

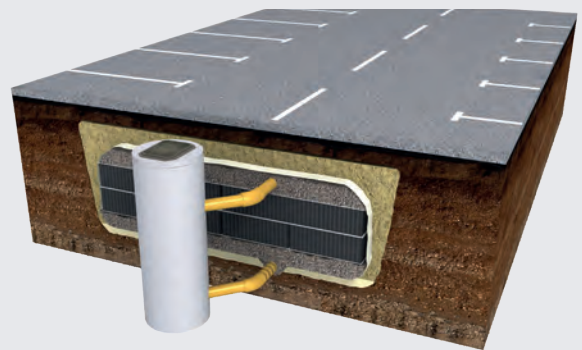
With standard and shallow sizes, a choice of durable and more lightweight variants and the ability to cut blocks on site, Stormcell® provides designers with the flexibility to customise storage to meet the requirements of shallow, deep or irregular sites.

Reduce your stormwater maintenance

The Stormcell® system is designed to prevent silting and other build-up of solids and debris typically carried in surface water and stormwater, meaning that the system requires virtually no maintenance.

Install quickly and easily

Stormcell® requires no assembly or connectors, so installation on site is quick and easy.



Physical Properties

- » Void Ratio: 95%
- » Block Dimensions: 2.4 m x 1.2 m x 0.52 m
- » Block Weight: 63 kg
- » Short Term Vertical Characteristic Strength (at Yield): 400 kN/m².
- » Long Term Vertical Characteristic Strength (at Yield): 40 kN/m².
- » Lateral Loading of 20 kN/m² can be accommodated.

Recycling information

Stormcell® is a polypropylene product manufactured from approved recycled polypropylene. Due to the intended long life and minor maintenance requirements, there is a reduced need for recycling during its life span. At the end of the life cycle, Stormcell® can be recycled safely at minimal risk to the environment.



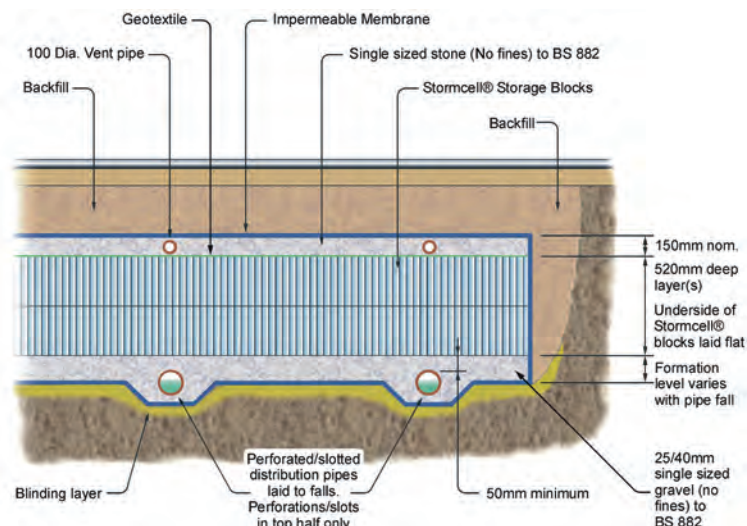
Find out about how Stormcell® can help you deliver SuDS and prevent surface water flooding.

→ hydro-int.com/stormcell

Main elements of the Stormcell® storage system

The typical Stormcell® Storage System is composed of:

1. 2.4 m x 1.2 m x 0.52 m blocks of Stormcell® (120 mm deep shallow blocks also available).
2. An impermeable membrane wrapped around the Stormcell® blocks which prevents stormwater from escaping into the surrounding ground.
3. Large single size stone as a support base for Stormcell® blocks which also aids even distribution of stormwater throughout the plan area of the blocks and allows drain down through the outlet.
4. Perforated pipes to further facilitate the stormwater distribution when filling and collection and delivery to the outlet when emptying and to avoid unwanted back pressure to the upstream sewer or drain.
5. Geotextile on top of the Stormcell® blocks to prevent the migration of fines from above into the vertical voids.
6. Granular backfill to the top of the tank to assist structural loading distribution and the movement of air during filling and emptying.



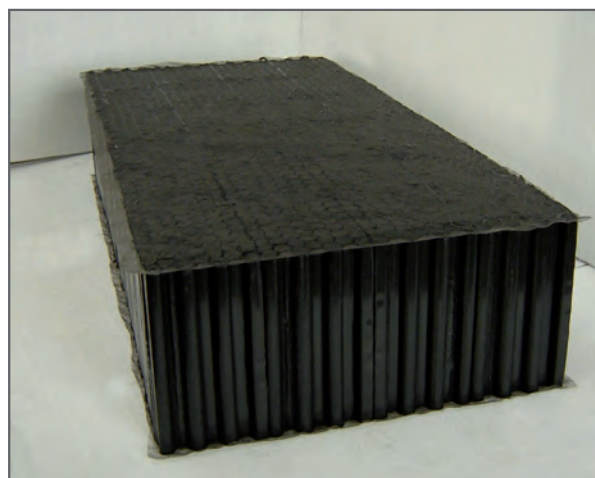
Stormcell® Lite

A lightweight version ideal for installation beneath landscaped areas.

Stormcell® Lite is a lightweight storage system ideally suited towards installation beneath landscaped, non-trafficked areas.

Applications

- » Modular and flexible.
- » Lightweight.
- » High structural integrity.
- » Silt prevention system.
- » Woven geotextile on the top and bottom of each block prevents intrusion of fines.
- » Simple and quick to install - no assembly or connectors required.
- » Shallow 120 mm deep blocks available.



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Find out more about how Stormcell® can deliver high-capacity, low-maintenance solutions for stormwater storage:



hydro-int.com/stormcell