

Water Infrastructure Systems

# SDS GEOlight®

Stormwater Management System

#### **Product Profile**

SDS GEOlight® is an ultra lightweight honeycombed modular structure made from recycled PVC. The ready to install units are preformed to provide an underground stormwater storage facility, for the application of stormwater attenuation or infiltration.

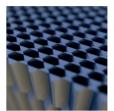
The high void rate (>95%), high compressive strength (to 1000KN/m²) and low resistance to water flow makes

SDS GEOlight® an ideal material for cost efficient and maintainable underground water storage during storm conditions.



- High compressive strength can be located under all roads, car parks and amenity area surfaces.
- Reduced excavation costs the very high void rate (95%) minimises the required volume of earthworks.
- → Speed of installation 1000m³ reservoir, completed in one week.
- → Light and easy to handle.
- Excellent hydraulic characteristics.
- → The honeycomb structure is highly permeable, offering low resistance to water flow.
- → SDS GEOlight®'s unique lateral and vertical filling arrangement requires a minimum amount of pipework and stone.
- Depth of tank invert reduced by using patented lateral supply.

- Simplified distribution pipe network, easy maintenance
  dispensing with costly and complicated pipework configurations.
- Modular format offers design flexibility to overcome topographical contraints and architectural requirements.
- Greatly reduces the risk of flooding when used as stormwater storage.
- Can also be used for water recycling and combining with irrigation systems.
- → Can virtually eliminate pollution when used in combination with specialist separation and filtration technology such as SDS Aqua-Swirl™ and SDS Aqua-Filter™.
- Design service available, including calculations.





### **APPLICATIONS**



**RETAIL** 



**INFRASTRUCTURE** 



**INDUSTRIAL** 



RESIDENTIAL



COMMERCIAL



**PUBLIC SECTOR** 





SDS G	EOlight®	400

2000 mm

500 mm

375 mm

# SDS GEOlight® 600

# SDS GEOlight® 800

## **APPLICATIONS**

Stormwater Management

Attenuation / Infiltration

Bacterial filter-bed for biological treatment

Hydrocarbon Separation

Filtration and Separation Units **SPECIFICATIONS** 

Material		
Colour		
Standard length of a block		
Standard width of a block		
Standard height of a block*		
Void Ratio		
Compressive Strength		

	A DVA NITA G
20 kN/m²	610 kN/m²
- 3370	- 55/0

Recycled Rigid PVC Dark grey to black 2000 mm 2000 mm 500 mm 500 mm 375 mm 375 mm \*Other block sizes available on request

> 95%	> 95%	> 95%
420 kN/m²	610 kN/m²	800 kN/m²



Highly cost effective

Reduced excavation costs

High void capacity

Good UV resistance

Good hydrocarbon resistance

**GEO DS/1021**