

## SDS GEOLight®

Stormwater Management System

### Product Profile

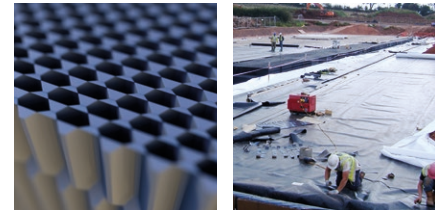
**SDS GEOLight® is an ultra lightweight honeycombed modular structure made from recycled PVC. The ready to install units are preformed to provide an underground stormwater storage facility, for the application of stormwater attenuation or infiltration.**

The high void rate (>97%), high compressive strength (to 1000KN/m<sup>2</sup>) and low resistance to water flow makes

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

### SDS GEOLight® Benefits

- 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 – 1000m<sup>3</sup> 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 constraints 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 GEOLight® 200

Cellular Block structure composed of 1m<sup>3</sup> specification blocks manufactured from recycled PVC.



### APPLICATIONS

- Stormwater Management
- Attenuation/Infiltration
- Bacterial filter-bed for biological treatment
- Hydrocarbon Separation
- Filtration and Separation Units

### SPECIFICATIONS

Material	Recycled Rigid PVC
Colour	Dark grey to black
Standard length of a block	2000mm
Standard width of a block	1000mm
Standard height of a block	500 mm
Other block sizes available on request	
Weight/m <sup>3</sup> dry	40 kg/m <sup>3</sup>
Void Ratio	> 97%
Specific surface area	160 m <sup>2</sup> /m <sup>3</sup> ± 5%
Compressive Strength	200kN/m <sup>2</sup>

### ADVANTAGES

- Highly cost effective
- Reduced excavation costs
- High void capacity
- Good UV resistance
- Good hydrocarbon resistance

## SDS GEOLight® 400

Cellular Block structure composed of 1m<sup>3</sup> specification blocks manufactured from recycled PVC.



### APPLICATIONS

- Stormwater Management
- Attenuation/Infiltration
- Bacterial filter-bed for biological treatment
- Hydrocarbon Separation
- Filtration and Separation Units

### SPECIFICATIONS

Material	Recycled Rigid PVC
Colour	Dark grey to black
Standard length of a block	2000mm
Standard width of a block	1000mm
Standard height of a block	500 mm
Other block sizes available on request	
Weight/m <sup>3</sup> dry	55 kg/m <sup>3</sup>
Void Ratio	> 95%
Specific surface area	160 m <sup>2</sup> /m <sup>3</sup> ± 5%
Compressive Strength	400kN/m <sup>2</sup>

### ADVANTAGES

- Highly cost effective
- Reduced excavation costs
- High void capacity
- Good UV resistance
- Good hydrocarbon resistance

GEO DS/0516