

GEOLight™

Stormwater Management System



Sustainable Drainage Systems Ltd

drainage | design | solutions

product profile

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/m²) and low resistance to water flow makes GEOLight™ an ideal material for cost efficient and maintainable underground water storage during storm conditions.



applications



Car Parks and shopping centres



Airports and Seaports



Industrial Distribution Centres



Residential Homes



Park & Ride sites



Sports grounds & Golf Courses

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 – 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.
- 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 petrol / oil separators.
- Design service available, including calculations.



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Specification Sheet



Geolight™ 200

Cellular Block structure composed of 1m³ specification blocks manufactured from recycled PVC.

Applications:

- Stormwater Management
- Attenuation/Infiltration
- Bacterial filter-bed for biological treatment
- Hydrocarbons separation
- Filtration & 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 ³ dry:	40 kg/m ³
Void Ratio:	> 97%
Specific surface area:	160 m ² /m ³ ± 5%
Compressive Strength:	200kN/m ²

Advantages:

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

Geolight™ 400

Cellular Block structure composed of 1m³ specification blocks manufactured from recycled PVC.

Applications:

- Stormwater Management
- Attenuation/Infiltration
- Bacterial filter-bed for biological treatment
- Hydrocarbons separation
- Filtration & 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 ³ dry:	55 kg/m ³
Void Ratio:	> 95%
Specific surface area:	160 m ² /m ³ ± 5%
Compressive Strength:	400kN/m ²

Advantages:

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



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