VersiCell[®] Sub-Surface Drainage Module



Creating Cities Where Urban Meets Nature

Our Innovation Your Solution

VersiCell[®] is designed and engineered for sub-surface drainage as well as providing waterproofing membrane protection and heat and sound insulation. It eliminates the use of heavy gravel aggregates for sub-surface drainage and screeds for waterproofing membrane protection in planter boxes and roof gardens. It is applied also on retaining walls to prevent build up of hydrostatic pressure.



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VersiCell[®] rigid or flexible modules, is a lightweight highstrength drainage cell manufactured from polypropylene.

VersiCell[®] has a narrow profile and an open surface design with high volume internal void that enables rapid capture and transport of high water volumes.

VersiCell[®] is only approximately 2% of the aggregate weight of gravel for equivalent drainage discharge capacity. Its narrow profile makes a greater soil depth possible in planter beds and thus allows a wider variety of landscape plants to be used.

VersiCell[®] modules are easy to install by interlocking one to another either horizontally or at right angles or simply by abutting.

VersiCell® 3150 can flex and conform to curved surfaces and their ability to nest and stack reduces on-site storage and container space requirements and transportation costs.

Applicable Areas

- Landscaped decks
- Paved areas and roadways
- Sports fields
- Retaining/basement walls
- Pond filter systems
- Bridge abutments
- Tunnels and landfills
- Golf courses
- Planter boxes





VersiCell® is also known as Nordrain® and Nordrain® V. International patents pending.

Technical Specifications

Material	PP
Size	500 x 500 mm*
Weight	
VersiCell [®] 3150	~ 2.0 kg/m ²
VersiCell [®] 3050	~ 2.5 kg/m ²
VersiCell [®] 3025	~ 2.5 kg/m ²
VersiCell [®] 2050	$\sim 2.0 \text{ kg/m}^2$
Colour	Black
Compressive Strength	
VersiCell [®] 3150	max. 600 kN/m ²
VersiCell [®] 3050	max. 800 kN/m ²
VersiCell [®] 3025	max. 800 kN/m ²
VersiCell [®] 2050	max. 800 kN/m ²
Discharge Capacity @ 1% gradient	
VersiCell [®] 3150	~16.5 l/m.s
VersiCell [®] 3050	~16.5 l/m.s
VersiCell [®] 3025	~16.5 l/m.s
VersiCell [®] 2050	~13.0 l/m.s
Surface Void Area	~62%
Internal Void Area	~95%
Biological / Chemical	Unaffected by moulds and algae
Resistance	Good resistance to alkali and bitumen

*also available in 500 mm x 250 mm or 1000 mm x 500 mm

Advantages

Design Flexibility

Modules may be interlocked at right angles to form conduits or tanks or in a single plane to form continuous large panels.

Easy Installation

Modules are easy to join into large or long pre-assembled panels for rapid installation minimising on-site disruption.

Multi-directional Interlocking Clips*

Adjacent modules are secured together without need to orientate in any particular direction. +Patent pending

Able to Flex, Bend, and Nest

Ability to flex allows VersiCell® 3150 to be used against curved surfaces. On-site storage and container space requirements and transportation costs is reduced by ability to nest and stack.

Lightweight and High Strength

Honeycomb design gives the modules high compressive strength whilst remaining lightweight.

Efficient

Open surface design and high volume internal void facilitates efficient drainage. A narrow module profile provides greater soil depth in planter boxes allowing a wider variety of plants to be used.

Sustainable and Environmentally Friendly

VersiCell[®] is made from polypropylene and support Green Label Certification.



The Elmich security hologram ensures authenticity of the products.

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