Enhancing Our Environment

VersiCell® sub-soil drainage modules enhance our environment by providing an effective alternative to gravel aggregates used in conventional drainage systems.
VersiCell® offers architects and developers greater design flexibility and has a wide range of applications in the landscape, building and construction industries.

VersiCell® is a lightweight interlocking plastic structural module used for subsurface drainage or to form tanks for underground water percolation systems. When installed with a waterproof membrane, VersiCell® eliminates the need for an additional protection layer.

VersiCell® modules are easily interlocked in the same plane (a) or at right angles (b) to one another. They may be butted together without interlocking.

VersiCell® tanks may be fabricated by joining two VersiCell® modules together to form a panel. Four separate panels are then interlocked with stabilizers to form high compressive strength tanks. When positioned underground, VersiCell® tanks may be used as a soakaway system for rainwater from roofs and other surfaces such as parking areas, driveways, playgrounds and sports areas.

Applications

Typical areas of applications include:

- Roof gardens and landscaped decks
- Paved areas and roadways
- Sports fields
- Retaining/basement walls
- Pond Filtration
- Capillary irrigation
- Bridge abutments
- Tunnels and landfills
- Golf courses
- Underground percolation tanks

Plaza Deck
1. VersiCell®
2. Waterproof Membrane
3. Geotextile
4. Sand
5. Pre-cast Pavers

Landscape Deck
1. VersiCell®
2. Waterproof Membrane
3. Geotextile
4. Coarse Sand
5. Growing Media

VersiCell® has international patents pending.
Sports Field
1. VersiCell®
2. Geotextile
3. Coarse Sand
4. Soil

Concealed Drain
1. VersiCell®
2. Geotextile
3. Coarse Sand
4. Soil

Basement Wall
1. VersiCell®
2. Waterproof Membrane
3. Geotextile
4. Soil

Storm Drain
1. VersiCell®
2. Geomesh
3. Concrete Panel
4. Sandy Gravel
5. Soil

Capillary Irrigation
1. VersiCell®
2. Waterproof Membrane
3. Geotextile
4. Overflow Pipe
5. Soil
6. Moisture Wick
7. Coarse Sand

Pond Filtration
1. VersiCell®
2. Geomesh
3. Pebbles
4. Pipe Support
5. Waterproof Membrane
Advantages

Design Flexibility
Greater design flexibility as the modules may be interlocked in one plane or at right angles to one another to form continuous large panels, conduits and tanks.

Easy Installation
Large easy-to-join modules or pre-assembled panels allow rapid installation and minimise on-site disruption.

Lightweight and High Strength
Honeycomb design results in a lightweight high compressive strength structure.

Durable
The modules are resistant to biological attack and to a wide range of chemicals.

Efficient
High surface void area and internal void volume results in efficient drainage. Narrow profile enables a greater soil depth to be utilised in planter beds allowing the use of a wider variety of landscape plants.

Environmentally Friendly
VersiCell® is manufactured from high strength recycled plastics.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Module Size</td>
<td>500 mm (L) x 250 mm (W) x 30 mm (H)</td>
</tr>
<tr>
<td>Modules per sq.m.</td>
<td>8.0</td>
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<tr>
<td>Weight</td>
<td>approx. 2.7 kg/m²</td>
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<tr>
<td>Material</td>
<td>Polypropylene co-polymer</td>
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<tr>
<td>Colour</td>
<td>Black</td>
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<tr>
<td>Compressive Strength</td>
<td>&gt;1,000 kN/m² (100 t/m²)</td>
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<tr>
<td>Discharge Capacity</td>
<td>&gt;16.5 l/m.s @ 1% gradient</td>
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<tr>
<td>Surface Void Area</td>
<td>&gt;67%</td>
</tr>
<tr>
<td>Internal Void Area</td>
<td>&gt;95%</td>
</tr>
<tr>
<td>Biological/Chemical Resistance</td>
<td>Unaffected by moulds and algae and good resistance to oils, acids, alkalis and bitumen.</td>
</tr>
<tr>
<td>Service Temperature</td>
<td>-30°C to 120°C</td>
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Note: The information provided in this brochure is based on current knowledge and experience and does not infer any legally binding assurance or warranty, expressed or implied. Intending purchasers should verify whether any changes to specifications or applications or otherwise have been made since this literature was issued. Whilst VersiCell® is designed for its intended use, the design calculations shall be the responsibility of the Specifier and/or User.