

VersiCell® 20

Sub-Soil
Drainage Modules

VersiCell® 20 offers architects and developers greater design flexibility and has a wide range of applications in the landscape, building and construction industries.

VersiCell® 20 is a narrow-profile, high-strength, lightweight interlocking plastic structural module used for sub-surface drainage. The open surface design and high internal void volume result in highly efficient drainage.

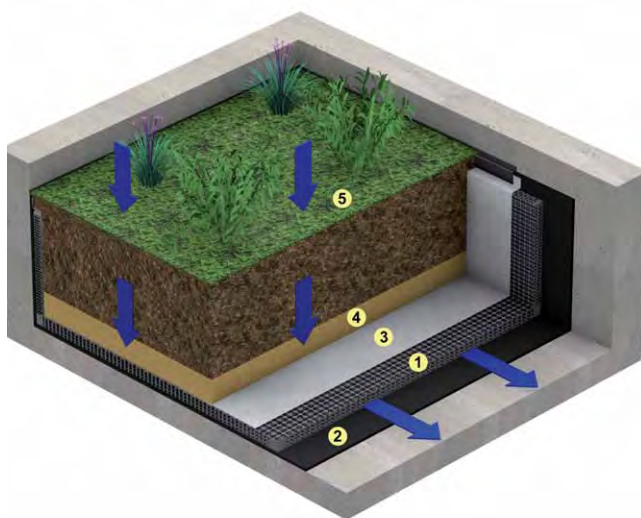
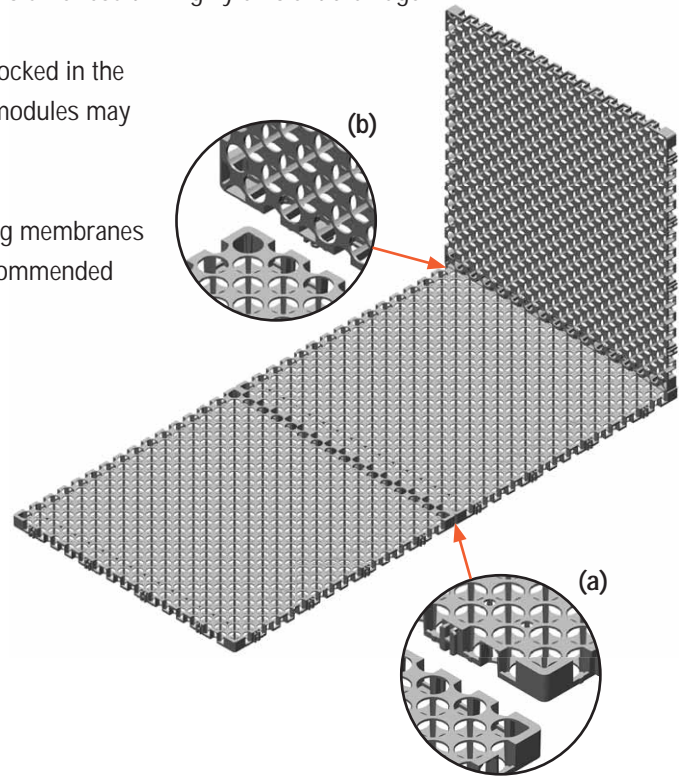
VersiCell® 20 modules are 20 mm high and may be interlocked in the same plane (a) or at right angles (b) to one another. The modules may also be butted together without interlocking.

VersiCell® 20 acts as a protection layer over waterproofing membranes and creates a thermal insulation barrier. Installation is recommended where narrow drainage profiles are critical.

Applications

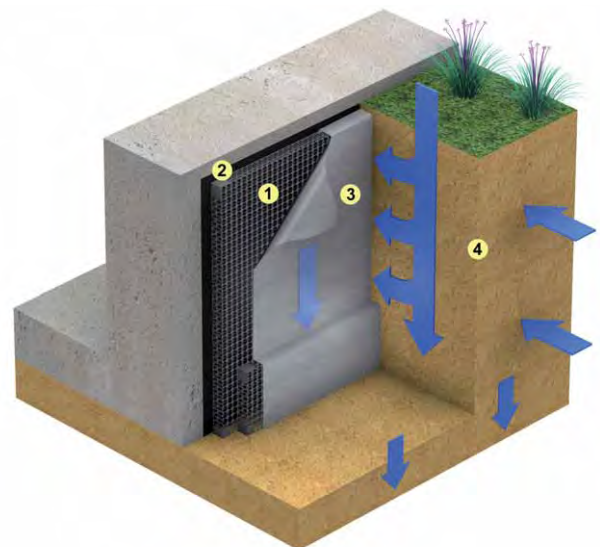
Typical areas of application include:

- Roof gardens and landscaped decks
- Paved areas and roadways
- Sports fields and golf courses
- Retaining/basement walls
- Pond Filtration
- Capillary irrigation
- Bridge abutments and tunnels and landfills



Landscape Deck

1. VersiCell® 20
2. Waterproof Membrane
3. Geotextile
4. Coarse Sand
5. Planting soil



Basement Wall

1. VersiCell® 20
2. Waterproof Membrane
3. Geotextile
4. Soil



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 and conduits.

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® 20 is manufactured from high strength recycled plastics.



On site labour easily handles 10 m² of lightweight pre-assembled panels.



VersiCell® 20 withstands ultra high weight bearing loads

Specifications

Module Size: 500 mm (L) x 500 mm (W) x 20 mm (H)

Pieces per sq.m.: 4

Weight: < 2 kg/m²

Material: Polypropylene

Colour: Black

Compressive Strength: > 1,000 kN/m² (100 t/m²)

Discharge Capacity: > 13.0 l/m.s @ 1% gradient

Surface Void Area: > 62%

Internal Void Area: > 95%

Biological/Chemical Resistance: Unaffected by moulds and algae and good resistance to oils, acids, alkalis and bitumen.

Service Temperature: -30°C to 120°C

International patents granted.

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. The products in this brochure are manufactured using specified recycled plastics under detailed quality control standards and procedures. Factors including source of raw material and manufacturing processes may impact slightly on the strength of the modules.