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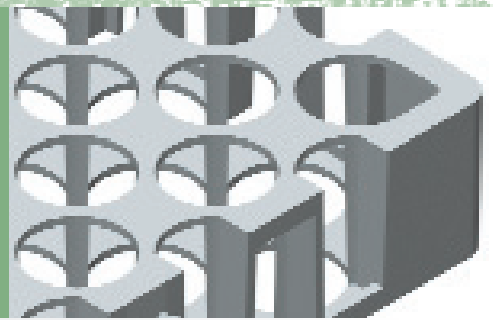
Common Arrangement R12

Uniclass

L13/L21/L52524/L141



RoofCell



Sub surface drainage and
water storage systems



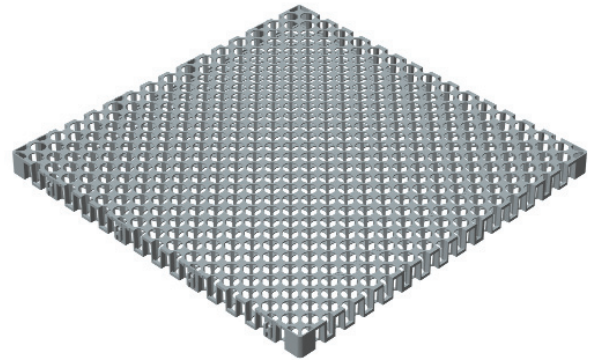
Geosynthetics

RoofCell

Sub soil drainage and water storage systems



RoofCell is a lightweight, high strength, interlocking module that provides excellent sub-soil drainage and water storage for roof gardens, planters and landscaped decks.



As well as improving the appearance of buildings, green roofs give architects and landscape gardeners many more benefits too.

By increasing insulation, green roofs can lower energy costs and improve the comfort of the internal environment. What's more they can improve air quality by reducing carbon monoxide, increasing oxygen supply and reducing the thermal drafts that draw up pollutants from surrounding areas.

Other benefits include reducing storm water run-off and increasing the life of waterproofing membranes by providing protection from UV, thermal shock and puncture.

As nominated distributors for RoofCell Drainage System and RoofCell Water Storage System, Geosynthetics Ltd is committed to high stock levels and exceptional customer service to help you improve the performance of your green roof projects.

Applications:

- Roof gardens and landscaped decks
- Paved areas and roadways
- Sports fields and golf courses
- Retaining walls
- Bridge abutments, tunnels and landfills



Product range



Singapore - Punggol East Public Housing Project, multistorey car park and roof garden



USA - Stamford University Medical Centre, landscape deck.



UK - Ascot Race Course (STRI) moveable track way / bridge.

Lightweight and easy to join, RoofCell is quick to install with minimal on-site disruption and gives you the following benefits:

- Rapid capture and discharge of surplus water
- High water storage capacity
- Effective return of stored water to planting via geotextile wicks
- Allows greater soil depths for a wider variety of plants
- Able to withstand pedestrian and light vehicle traffic

Environmentally friendly

RoofCell is manufactured from 100% recycled plastics. It is inert to ground chemicals and bacteria and will not deteriorate from water absorption even during prolonged immersion.

Long-term protection

As well as being compatible with all types of waterproofing membrane RoofCell protects the membrane from damage and deterioration.

Efficiency

High surface and internal void volume results in efficient, high capacity drainage.

Flexibility

RoofCell offers greater design flexibility as modules may be interlocked in one plane or at right angles to adjacent units to form continuous large panels and conduits.

Geosynthetics Ltd is a leading dis

**Please call
01455 617 139**

or email sales@geosyn.co.uk
for further information.

Wide
product
range

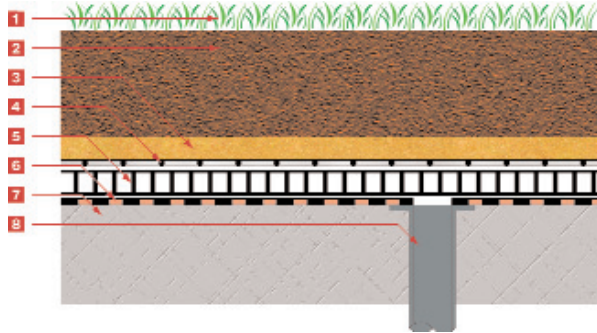
Large
stock
holding

Next day
delivery

RoofCell Drainage System

RoofCell is a highly effective drainage system that rapidly captures and transports water - even under torrential conditions.

Installed directly onto the waterproofing membrane, RoofCell is then covered with a geotextile filter fabric before adding soil and planting. The compact modules give greater soil depth than other methods, letting you choose from a wider variety of plants for landscaping.



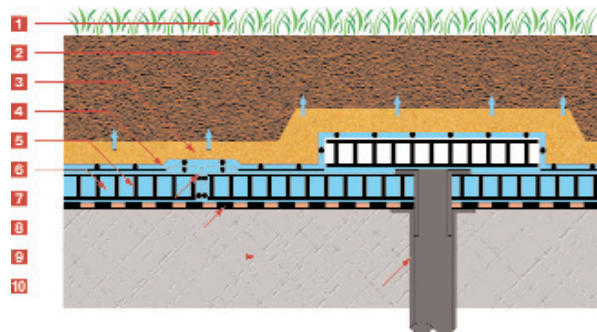
The RoofCell drainage system comprises:

- 1 Turf, ground cover and plants
- 2 Planting soil
- 3 Coarse washed sand (if required)
- 4 Geotextile filter fabric
- 5 RoofCell modules
- 6 Waterproofing membrane
- 7 Roof deck
- 8 Drain outlet

RoofCell Water Storage System

By positioning drainage outlets above the height of the RoofCell, it can also be used as an extremely efficient storage system by retaining water in its cellular structure. This stored water is returned to the soil by capillary wicks installed between the RoofCell modules.

In the event of flooding RoofCell's open structure and interlocked modules eliminate the possibility of flotation or movement for a robust, long-lasting solution for roof water storage.



The RoofCell water storage system comprises:

- 1 Turf, ground cover and plants
- 2 Planting soil
- 3 Coarse washed sand (if required)
- 4 Geotextile filter fabric
- 5 RoofCell modules
- 6 Stored Water
- 7 Geotextile capillary wick
- 8 Waterproofing membrane
- 9 Roof deck
- 10 Drain outlet

distributor of geosynthetic materials in the UK

Design
service

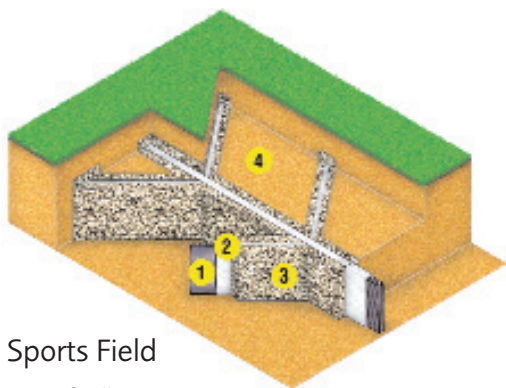
Onsite
support

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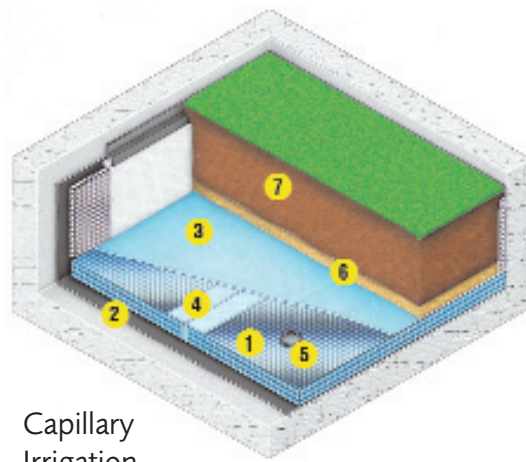
Geosynthetic

RoofCell drainage applications



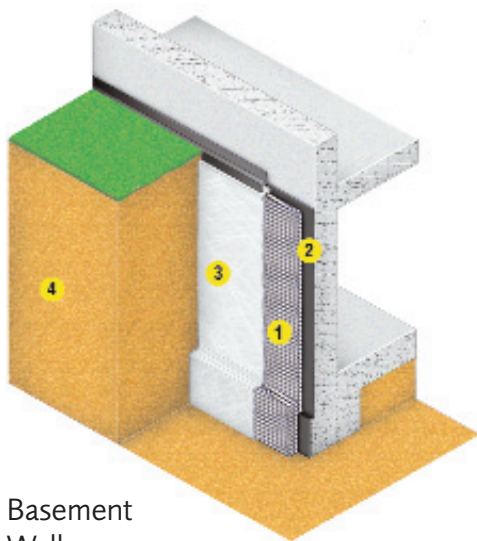
Sports Field

1. RoofCell
2. Geotextile
3. Course Sand
4. Soil



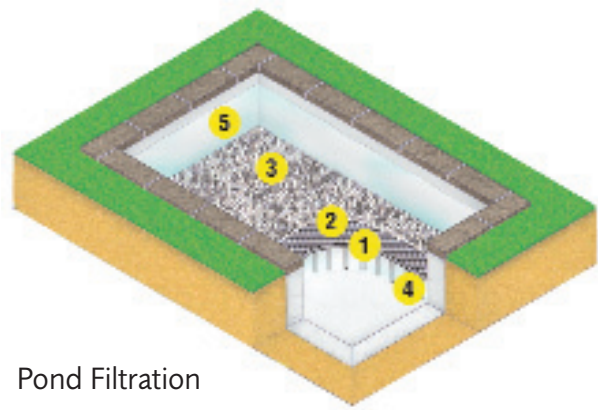
Capillary Irrigation

1. RoofCell
2. Waterproof membrane
3. Geotextile
4. Moisture wick
5. Overflow pipe
6. Coarse sand
7. Planting soil



Basement Wall

1. RoofCell
2. Waterproof membrane
3. Geotextile
4. Soil



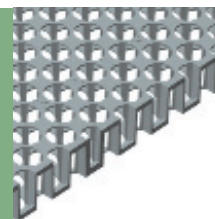
Pond Filtration

1. RoofCell
2. Geomesh
3. Pebbles
4. Pipe support
5. Waterproof membrane

Geosynthetics Ltd is committed to offering the best solutions for soil stabilisation, erosion control, drainage and environmental protection problems.

Well trained staff are always available to discuss which materials are best suited to any particular application.

Technical specification



Size:	500 x 500mm
Height:	30mm
Weight:	3kg/m ²
Material:	Recycled polypropylene (100%)
Colour:	Black
Surface void area:	~ 62%
Internal void area:	~ 95%
Compressive strength:	Max 800 kN/m ² /80 tonnes/m ²
Discharge capacity:	~16.5 l/m.s at 1% hydraulic gradient

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or email sales@geosyn.co.uk for more technical advice and further information.

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