

# Enviro H Cell

## Structural Non-clogging Drainage Cell



### DESCRIPTION

Enviro H Cell provides a permanent, structural, and non-clogging void between the building structure and the soil profile that will not collapse or distort. It allows water to flow directly to designated outlets, giving superior drainage efficiency compared with conventional gravel-filled systems.

### AREAS OF USE

**SURFACES:** Over cured waterproofing membranes and structural slabs, and behind retaining walls.

**AREAS:** Roof gardens, podiums, retaining walls, civil works, sports fields, under-slab drainage, and balcony drainage.

### FEATURES & BENEFITS

- Trafficable with high compressive strength
- Open structure for a high flow rate
- Durable, with a long life expectancy
- Lightweight and easy to handle.
- Large panels for fast installation
- Resistant to chemicals and bacteria
- Made from environmentally friendly, recycled plastic.

### PRODUCT INFORMATION

|           |                                             |
|-----------|---------------------------------------------|
| Packaging | 30mm panels, 1.1m × 1.1m                    |
| Material  | Reprolene™ (recycled polypropylene) or HDPE |

### PHYSICAL PROPERTIES

| Property             | Test Method | Test Result                         |
|----------------------|-------------|-------------------------------------|
| Module Dimensions    | –           | 30mm (H) × 550mm (L) × 550mm (W)    |
| Weight               | –           | 2.15 kg/m <sup>2</sup>              |
| Surface Void         | –           | 70%                                 |
| Compressive Strength | –           | 70 t/m <sup>2</sup>                 |
| Flow Rate            | –           | 14,400 L/h/m <sup>2</sup> @ 1% fall |
| Service Temperature  | –           | -30°C to 120°C                      |

| Property            | Test Method | Test Result                                                    |
|---------------------|-------------|----------------------------------------------------------------|
| Chemical Properties | –           | Unaffected by mould, algae, soil-borne chemicals, and bacteria |

### COVERAGE RATE

One 1.1m × 1.1m panel covers approximately 1.21 m<sup>2</sup>.

### SUBSTRATE PREPARATION

Install over a fully cured, protected waterproofing membrane on a sound, falls-graded surface, with outlets in place.

### APPLICATION

Lay Enviro H Cell panels interlocked across the area, directing flow towards the designated outlets. Cover with a suitable filter geotextile before placing soil, growing media, or other finishes, to prevent fines entering the drainage void.

*For applications or situations not covered above, contact Envirosystems technical support.*

### CLEANING

No cleaning of tools is required.

### LIMITATIONS

- Must be protected by a filter geotextile when used beneath soil or growing media.
- Do not install directly over uncured or unprotected membranes.

### HEALTH & SAFETY ADVICE

Enviro H Cell is an inert plastic product. Wear gloves when handling and cutting panels or rolls and follow safe manual handling practices. Refer to the Safety Data Sheet for full safety and handling procedures.

**KEEP OUT OF REACH OF CHILDREN**

### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to accuracy, reliability, or completeness either expressed or implied is given other than



## ACCESSORIES

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those required by Commonwealth or State Legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

*NOTE: Field service where provided does not constitute supervisory responsibility. Suggestions made by EnviroSystems, either verbally or in writing may be followed, modified, or rejected by the owner, engineer, or contractor since they, and not EnviroSystems, are responsible for carrying out procedures appropriate to a specific project.*

*NOTE: All products manufactured by EnviroSystems comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.*

### CONTACT ENVIROSYSTEMS

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