

**CORE**Landscape<sup>®</sup>  
Products

**CORE DRAINAGE CELL** - Specification & Installation



# CORE DRAINAGE CELL

## Specification & Installation

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### THE PRODUCT

The perfect solution for effective water management and erosion control in a variety of construction and landscaping projects. Engineered with precision, these cells feature a distinct geometric design that optimises water distribution, reducing the risk of water accumulation and erosion while preserving soil integrity. They are mostly specified for gardens, pathways, water management projects and sports fields, catering to a wide range of drainage and stabilisation needs.



### USE FOR

- ✓ Sub surface drainage for driveways • Retaining walls • Basement waterproofing
- Drainage for saturated sports fields

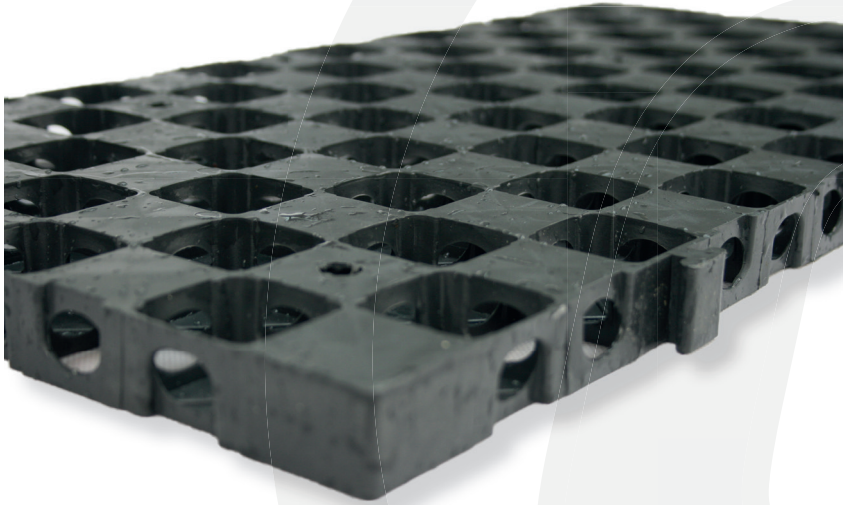
### TECHNICAL DATA

Material	Recycled Polypropylene
Cell Dimensions	600 x 290 x 25mm
Interlocking	Yes, pin and socket
Cell Area	0.174m <sup>2</sup>
Discharge Capacity	5 ltrs/sec (1 percent hydraulic grad.)
Cell Weight	550g Unit (3.16 kg per m <sup>2</sup> )
Chemical Resistance	Excellent
Horizontal Void	58% void area
Service Temp.	-10 ° C to 40 ° C
Unit Weight	1.0kg per m <sup>2</sup>

### BENEFITS

- ✓ Extremely lightweight yet highly durable
- ✓ High capacity flow-rate (58% void area)
- ✓ Resistant to weathering in cold conditions
- ✓ Rapid install time
- ✓ Ease of transportation





## CAPABILITIES

The CORE Drainage Cell provides an efficient water drainage solution to a variety of applications such as:

- ✓ Sub surface drainage for permeable driveways.
- ✓ Retaining wall, abutment & basement waterproofing.
- ✓ Spine drainage for saturated sports fields and lawns.

The construction of the cells allow water to flow evenly across the surface, avoiding areas of water build up.

The cells are made from recycled polypropylene and are extremely lightweight yet incredibly strong.

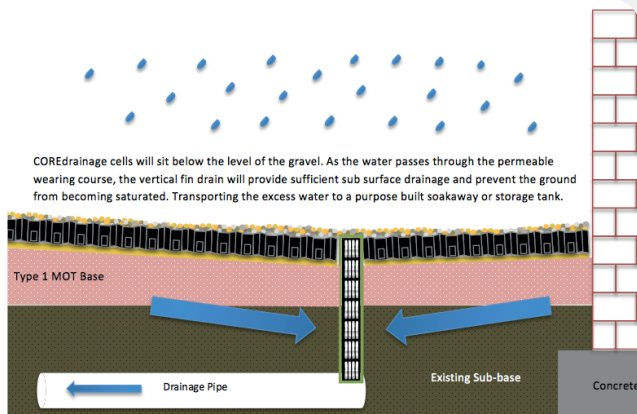
When installed vertically and wrapped in a geotextile membrane they form a highly effective fin drain, incredibly thin and unobtrusive with immense water-flow capabilities.

With a rapid install time and ease of transportation these cells are the ideal solution to sub surface drainage and or use in SuDS compliant driveways.

The cells can be connected together to form drainage runs into soakaways or flower borders.



**Can be installed vertically to create slim but highly effective drainage spines relieving hydrostatic pressure in waterlogged areas.**



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### Applications

Wide variety of uses from providing relief to saturated sports field, sub surface drainage for driveways, retaining walls and basement waterproofing.

### Installation

Place the CORE DRAINAGE CELL over the surface of your CORE MultiTrack geotextile membrane. Interlock the cells as you install them one by one. You can cut the drainage cells to size or shape if required - using a disc cutter. Lay more geotextile membrane over the top of the cells and allow for an overlap on each side. Allow for extra geotextile to cushion the edges of the cell. If installing vertically, ensure that geotextile membrane runs alongside it. A 50-100mm layer of sharp sand can then be laid as a filtering layer over the membrane. You can then add your soil layer. The depth should be a minimum of 300mm if the area will experience vehicular traffic.

### Storage & Handling

Transported on pallets - high quantity can fit on one pallet for great value delivery.

### PPE

We recommend the use of personal protective equipment (PPE) when installing CORE DRAINAGE, including strong gloves to protect the hands, and ear plugs or defenders if using loud cutting equipment.

### Health & Safety

To comply with Health and Safety Regulations 1981, all construction sites should have a first aid box with enough equipment to cope with the number of workers on site, an Appointed Person to take charge of first-aid arrangements, and a First-Aider who has undertaken training and holds an HSE approved qualification to administer first aid. The number of first-aiders will depend on the site, and information should be clearly displayed on site telling workers the name of the Appointed Person(s) or First Aider(s) and where to find them.

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### Environmental Credentials

Through resource conservation, the recycling of polypropylene reduces the demand for new plastic production, lessening reliance on raw materials and fossil fuels. This process's energy efficiency contributes to a decreased carbon footprint and lower greenhouse gas emissions. By diverting plastic waste from landfills and incineration, recycled polypropylene actively combats environmental harm and waste accumulation. Notably, the recycling process consumes less water than the production of new plastic, bolstering water conservation efforts. With reduced emissions, a closed-loop recycling potential, and minimized oil dependency, this recycled material showcases a commitment to a circular economy and sustainable resource management. As recycled polypropylene finds innovative applications in various sectors, it concurrently educates consumers about responsible plastic use and waste reduction, making a significant contribution to a more environmentally conscious and sustainable future.

### Further Information

Please do not hesitate to contact us to discuss your next project. For more information on the entire CORE product line please refer to the Knowledge Centre on our website. You can find all of your downloads, install videos and case studies at [www.corelp.co.uk](http://www.corelp.co.uk).

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