

MODseal DC

Modular Horizontal Drainage Cell



Product Catalogue



Product Description

MODseal DC (Drainage Cell) System provides a perfect solution for subsoil drainage application for creating successful roof garden, without any traditional problems associated with cracking or leakage. The 30mm Drainage Cell provides a uniform surface as well as an internal void space for effective draining of excess water. drainage cell system has a unique CUP structure which provides water retention for passive irrigation and helps building a perch water table in the above soil profile for the vegetation to flourish in prolonged dry periods. drainage cells are made of Polypropylene and is inert to soil borne chemicals and bacteria. Drainage cells shallow and effective drainage profile helps landscapers to make use of mature plants on roof garden which needs soil depth and water retention properties. High summer temperatures can cause thermal expansion in concrete and can cause waterproofing to crack, drainage cell system due to its unique design and void properties help this heat to escape and hence reduce the risk of cracking, enhancing building life.

Product Features

- High Compressive Strength
- Open Structure
- Durable
- Light weight
- Supply in 0.5-meter x 0.5-meter panels
- Trafficable
- High Flow rate
- Long Life Expectancy
- Easy to Handle
- Quick installation
- Chemical and Bacteria Resistant
- Environment Friendly

Typical Use

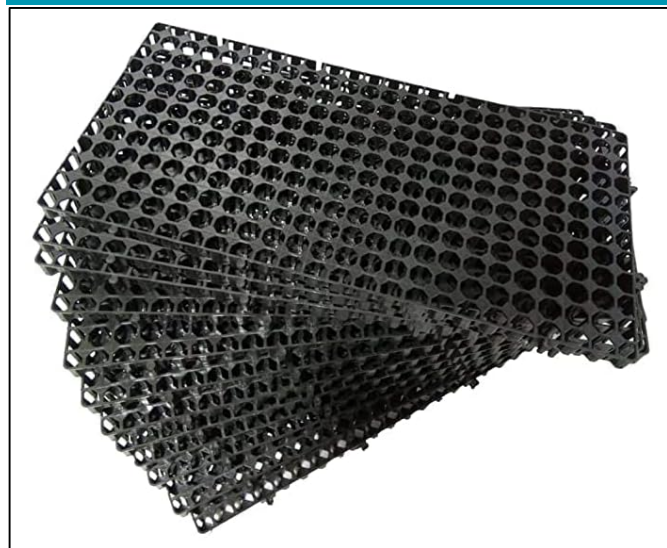
Drainage cells can be used in a variety of applications, including green roofs, planter boxes, retaining walls, sports fields, parking lots and

podium decks. They are versatile and suitable for use in both residential and commercial projects.

Instructions for Application

- Lay Geotextile if specified.
- Place the drainage cell over the surface of the membrane and butt together (interlocking is not required). For additional protection a layer of 3mm protection board is recommended under the drainage cell.
- Cut the drainage cell where required using a hand or circular saw.
- Place the filter fabric over the drainage cell allowing for a 150mm overlap at each seam. Allow for additional fabric to cushion the edges of the drainage cell around the perimeter against the waterproof membrane and walls.
- Install the drainage cell vertically to the walls of the planter boxes if required and cover with filter fabric. Allow sufficient overlap to the horizontal sections.
- Lay a 50-100mm layer of coarse washed river sand to act as a filtration layer over the fabric.
- Lay the soil profile to the required depth. Please note that a minimum of 300mm of cover is required before allowing vehicles and machinery to traffic over the surface.

Product Picture (For Illustration)





Product Technical Properties

Properties	Units	MODseal DC 30	MODseal DC 50
Depth	mm	30	50
Width	mm	500	500
Length	mm	500	500
Weight	Kg / Sqm	2.6	2.80
Surface Void	%	>65	>65
Volume Void	Ltr. /Sqm	30	40
Compressive Strength @ (73.6 ton/sqm)	kN/sqm	736	836
Drainage Capacity	Ltrs/hr./ sqm	14400	14400
Service Temperature	°C	-30 to + 120	-30 to + 120
Material	—	Recycled Polypropylene	

Packing

MODseal DC 40pcs per pack. (10 Sqm per each pack)

Color: Black

Note

- This Technical Data is the average results of tests, measurements and trials carried out by Modern Seal Group (MSG) own laboratory and AMST laboratories according to international standards such as ASTM, B.S and UEAtc.
- This product data sheet supersedes all previous data publications pertaining to this product.
- All the time of manufacturing, handling, storage, and shipping may change these properties.

Our Other Products & Range

- Primers all type
- Membrane all type & thickness
- Protection Board all type & thickness
- Geotextile (Non-Woven & Woven) all type & thickness
- Polystyrene / Insulation board all type & thickness
- Sealants all type
- Aluminum Flashing all type & thickness

- Filler / Bitumen Board all type & thickness
- Acrylic / Rubberized / Cementitious / Acrylic Cementitious / Polyurethane / Crystalline Coatings all type
- Water stoppers all type & thickness
- Dam proofing all type & thickness
- Polyurea / PU Foam
- Rockwool/Glasswool all type & thickness
- Polythene Sheet all type & thickness
- PP / Carton Board all type & thickness
- Injection Packer & Pump
- Geogrid all type & thickness
- Geocell all type & thickness
- Salt Barrier all type & thickness
- Root Barrier all type & thickness
- Root Guard all type & thickness
- Drainage Cell all type & thickness
- Backing/Foam rod all type & thickness
- Tile Glue
- Tile Grout (cementitious or Epoxy)
- Tile & Gravel
- GRP lining material
- HDPE/Geo-membrane Lining material
- Fiber Mesh all type & thickness
- Cloth Mesh all type & thickness

Fig 1 for reference:

