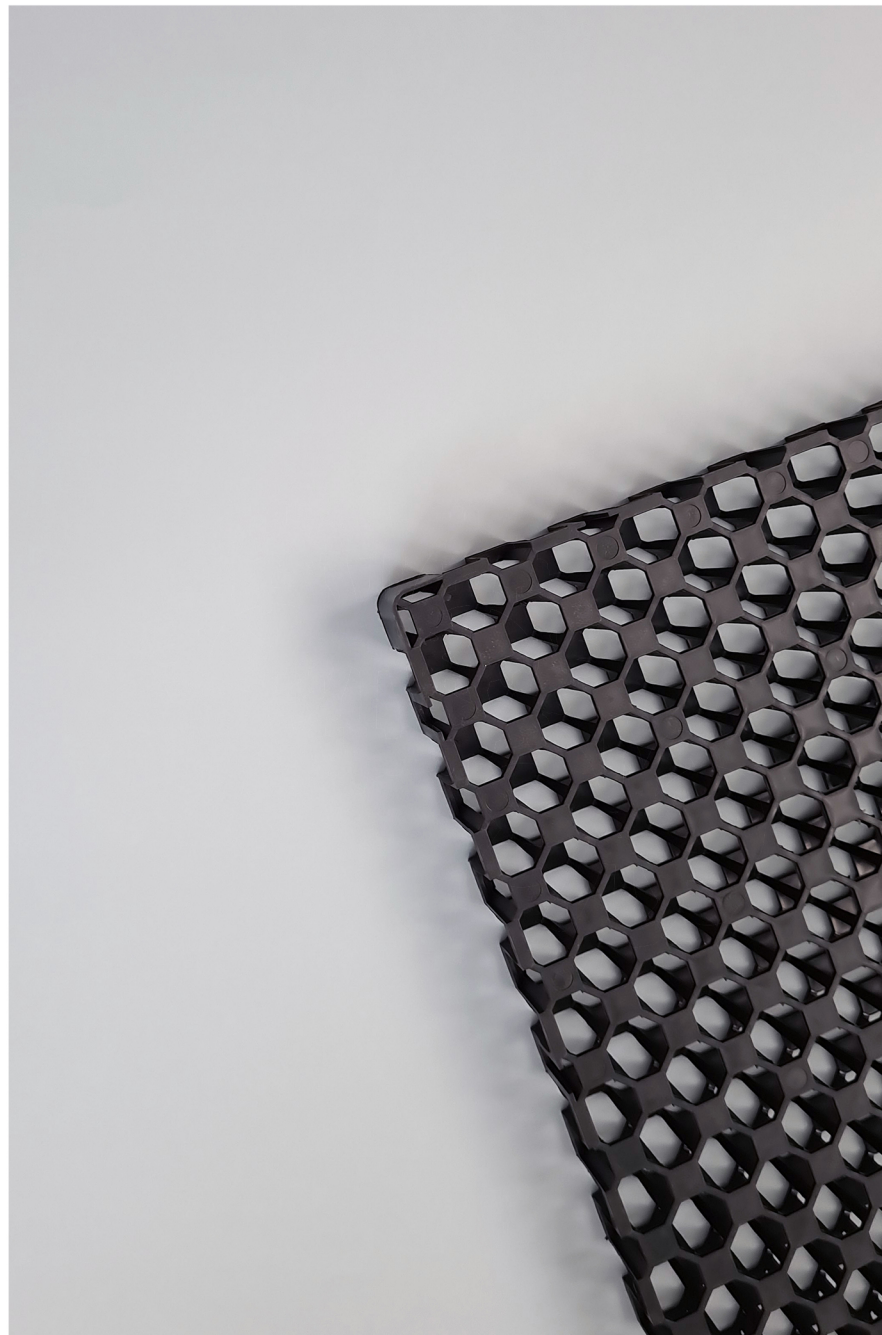


DRAINAGE CELL

***IMPLAS* SDN BHD**

DRAINAGE CELL

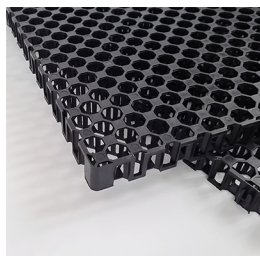
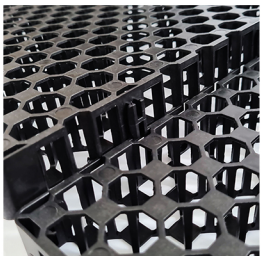
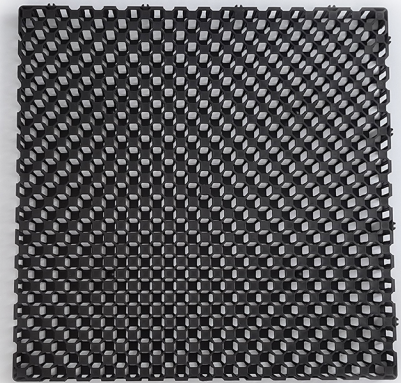


DRAINAGE CELL

Overview

Drainage cell functions as subsurface drainage and waterproof membrane protection. It provides effective drainage which reduces the pooling of water by delivering ideal flow conditions. Drain cell's open surface design and high internal void space allows high infiltration, enabling excess water to drain out efficiently, compared to conventional gravel systems.

Drainage cell has high compressive strength and is lightweight. which significantly reduces weight on underlying structure over gravel. It creates an air column that ventilates wall surface, other than establishing a thermal insulation barrier. Manufactured from Polypropylene (PP), it is immune to soil-borne bacteria and chemical, making it biologically and chemically resistant.



Common Applications

Roof and terrace gardens, landscaping applications, planter and podium systems, sports fields, agri-jorti applicatons, retaining walls, most horizontal drainage applications, etc.

Features

- High compressive strength
- Lightweight
- Open structure
 - Effective drainage, high flow rate*
- Easy installation
- Chemically resistant
 - To acid, alkali, mineral oils, alcohol, etc.*
- Highly durable
- Biologically resistant
 - Inert to biological activity*

Performance Data

Model	DC500	
Material	Polypropylene (PP)	
Colour	Black ■	
Dimension (mm)	W 500 x D 500 x H 30	
Weight (kg/m ²)	± 2.6	
Discharge Capacity at 1% gradient (L/M/S)	16.5	
Surface Void Area (%)	65	
UV Stabilised	Yes	
Unit per m ²	4	
Compression Strength (tonnes/m ²)	> 80 - 100	
Internal Void Area (%)	95	
Density (g/cm ³)	0.9	D1505
Tensile Strength at Yield (kg/cm ²)	300	D638
Elongation at Yield (%)	10	D638
Flexural Modulus (kg/cm ²)	13000	D790B
Notched Izod Impact Strength at 23°C (kg.cm/cm)	6	D256A
Heat Deflection Temperature at 4.6kg/cm ² (°C)	85	D637
Rockwell Hardness (R scale)	85	D785A
Water Absorption after 24 hours (%)	0.02	D570

*Typical value based on Titanpro PP

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