

ENDUROFLEX EPD10

Description

Enduroflex Prefabricated Sheet Drainage Composite (EPD 10) is Made from Prime HDPE material using the techniques of precise thermoforming core technology EPD10 is a dimpled plastic sheet that provides effective protection for Waterproofing Membrane, and drainage for foundation walls and other underground structures. The integrated non-woven geotextile covering the dimples prevents soil particles blocking the drainage sheet, Dimples creates an air gap for reliable ventilation and allows inflow, with its dimple structure effectively captures and transports high water volumes and resists high loads from earth and form work above.

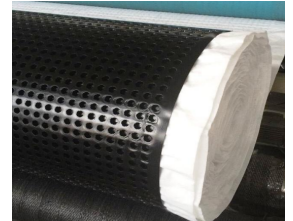
EPD 10 Sheet Drain System is manufactured in widths from 1.5m wide X 20 m in length. Cutting of the roll, on site, is easy, to suit the application. The EPD 10 sheet Drain System is used to replace conventional drainage aggregate systems, saving time and money due to its lightweight structure and quick and easy installation without the need for

System Benefits:

- Quick and light weight easy to install. can be installed by unskilled labourer without any heavy machinery.
- 90% void ratio providing maximum discharge capacity.
- High void surface ratio ensures larger surface contact area for quick discharge and NO traditional clogging problems unlike gravel-based systems.
- Made from prime material, guaranteed product quality and performance
- Environmentally friendly WSUDS for water management.
- Proven High Load Bearing Capacity of 25 t/m² + for various depth applications.
- Complete 3 D flow throughout the hollow structure. Unlike gravel-based uni-directional systems which can clog up over time and cause surface flooding.
- 20 years + Design Life.
- Backed by stringent testing regime and constant QA/ QC.

Applications:

- Plaza Decks, Roof Decks and
- Planters Boxes
- Retaining Walls
- Foundations and Basement Drain
- Tunnel Drainage



Installation Instructions:

The product may be installed in several directions that is convenient to the installer, the application and which minimises product wastage. Installed either vertically or horizontally. Installed with the geotextile facing the backfill side.

Sheet is held in place with the help of either using a double-sided tape, glue nail, or simply overhanging over the wall while backfilling takes place.

Joined by simply butting edge to edge and overlapping the geotextile overhang and securing with reinforced canvas tape. Or alternatively peel back the geotextile of the last two layers of the dimples on both boards to be joined, Apply a spot of neutral cure plastic adhesive to each dimple cavity, Overlap the sheets and press together locking the dimples of both sheets in place. Fold back the geotextile onto the surface and tape the join to hold it together until the backfill is placed against.

Ensure when necessary, that suitable Ag pipe outlet drainage is installed. Any compaction near the face of the product should be carried out with care.

Product Performance Guarantee

Prime quality polymer is used to manufacture EPD 10. The system is unaffected by chemicals and bacteria commonly found in uncontaminated soils and stormwater runoff.

When installed as per Enduroflex Installation guidelines, and within the stipulated design parameters, the system has a design life of 20 years +.

Specification with Properties:

EPD 10			
Property	Units	Test Method	
Core Properties			
Core Structure		Physical	Single Sided Cusped Flat Back
Core Material	Polymer	Component	HDPE
Core Thickness	mm	ASTM D-1777	10
Core Open Volume	%	Physical	>90
Sheet Thickness	mm	ASTM D-1777	1.0
Geotextile Properties			
Type	Construction	Component	Nonwoven Geotextile
Material	Polymer	Component	PP/PET
Color	Visual	Visual	White
Flow Rate	l/m ² /s	ASTM D-4491	>180 l/m ² /s
CBR Puncture	n	ASTM D-6241	> 1850
EOC (PORE)	mm		< 0.25
Grab Tensile	n	ASTM D-4632	>680
Geocomposite Properties			
Compressive Strength	kN/m ²	ASTM-1621	>752
Discharge Capacity	l/min//m	ASTM-D4716 (i=1.0)	>265
Geocomposite Roll Physical Properties			
Roll Width	m	Physical	1.4
Roll Length	m	Physical	20
Roll Weight	kg	Physical	28

**All compressive strength, at yield, maximum recommends safe design value, safety factors to be incorporated for strength and flow rates.*

Application and Installation Images: