

Don Geodrain H

Composite drainage layer



Description

Don Geodrain H is a composite drainage layer consisting of an extruded high density polyethylene (HDPE) net drainage core with a non-woven polypropylene geotextile filter bonded to both sides.

Application

Landfills, roadway and pavement drainage, railways, bridges, underground pipeline protection, landscaping and sport fields.

Advantages

- ▲ High-volume flow paths for liquids and gases.
- ▲ Reduces hydrostatic pressure.
- ▲ Lightweight and easy to handle.
- ▲ Quick and easy to install.
- ▲ Replacement for heavy conventional aggregate type drainage.
- ▲ Resistant to various salts and minerals present in soil.
- ▲ Does not support bacterial growth.

Packaging

Don Geodrain H is supplied in rolls of 3.8 m width x 25 m Length.

Storage

Rolls should be stored in dry and cool rooms. Protect against moisture and direct sunlight.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

Cautions

There is no health hazards associated with Don Geodrain H in normal use.



Technical Properties for HDPE Drainage Core:

Carbon black content: ASTM D1603	2%	
Maximum regrind HDPE material:	3%	
Melt flow rate (190°C, 2.16 kg load): ASTM D1238	0.30 g/ 10 min	
Polymer density: ASTM D1505	0.954 g/ cm ³	
Mass per Unit area: ASTM D5261	1000 g/m ²	
Thickness: ASTM D5199	8.0 mm	
Tensile strength (MD): ASTM D7179	13.5 kN/ m	
In-plane flow capacity (i=1.0): ASTM D4716 @ 20 kPa	In-plane flow capacity l/s/m	Flow Rate m ² /s
	2.53	2.53 x 10 ⁻³

Technical Properties for Geotextile Filter Fabric:

Mass per Unit area: ASTM D5261	280 g/m ²	
Apparent pore size 95% finer (O ₉₅): ASTM D4751	85 µm	
Grab strength: ASTM D4632	1100 N	
Minimum grab elongation: ASTM D4632	70%	
Trapezoid tear strength: ASTM D4533	420 N	
Puncture resistance: ASTM D4833	725 N	
CBR puncture: ASTM D6241	3.57 kN	
Permittivity: ASTM D4491	1.40 sec ⁻¹	
UV resistance: EN 12224	70%	

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- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
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- ▲ Waterproofing.
- ▲ Adhesives.
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Note:

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