

Product Datasheet

Hydrodrain FC25

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Description

Hydrodrain FC25 is a geocomposite drainage layer comprising a medium weight geotextile filter, thermally bonded on one side of a high strength single cuspated HDPE (High Density Polyethylene) core. The textile filter has a flap extending beyond the core on one edge. The product is practically impermeable one side. Its main application is as a drainage layer to the external walls, floor and roof of underground structures.

Geocomposite Properties

Coccomposite Freperitor						
Thickness at 2kPa	(mm)		26.9	.9 +10%%		EN ISO 9863-1
Mass per unit area	(g/m²)		2 500	approx		EN ISO 9864
Tensile strength MD / CMD	(kN/m)		20 / 20	-13%		EN ISO 10319
Elongation at peak MD / CMD	(%)		45 / 55	55 nominal		EN ISO 10319
CBR puncture resistance	(N)	(N)		5 600 -20%		EN ISO 12236
Perpendicular Water Inflow	(dimple s	ide only)		-		
Water flow at 50mm head	(l/m²·s)		75	±30	0%	
At 2kPa permeability (coefficient)	(m/s)		2.8 x 10 ⁻³	±30	0%	EN ISO 11058
Breakthrough head	(mm)	(mm)		Nominal		EN ISO 11058
In-plane water flow MD / CMD		HG = 1.0		HG =	0.1	Hydraulic gradient
at 20kPa confining pressure	(l/m⋅s)	11.75	-20%	4.05	-20%	EN ISO 12958
at 100kPa confining pressure	(l/m⋅s)	9.15	-20%	2.85	-20%	EN ISO 12958
At 200kPa confining pressure	(l/m⋅s)	7.95	-20%	2.35	-20%	EN ISO 12958
With soft foam contact surfaces to simulate textile intrusion into the core due to soil pressure. The confining pressures of the						
flow rates shown above are all equa	al to or less th	nan the long	-term compres	sive stre	ength of the produc	ct.
Resistance to weathering	The geot	textile has t	EN 12224			
exposure up to 12 months depending on location						
Resistance to chemicals Excellent						EN 14030
Design life	120 years (manufacturer's declaration)					

Geotextile Properties

Geoleville i Toperiles						
Thickness at 2kPa	(mm)	1.75	±20%	EN ISO 9863-1		
Tensile strength MD / CMD	(kN/m)	20 / 20	-13%	EN ISO 10319		
Pore size 0 ₉₀	(µm)	70	±30%	EN ISO 12956		
CBR puncture resistance	(N)	3 400	-20%	EN ISO 12236		
Dynamic perforation cone drop	(mm)	17	+20%	EN ISO 13433		
Type and material	Non-woven nee	edle-punched and h	neat-treated long s	taple fibre polypropylene		

Product Dimensions

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Standard roll dimensions	0.915 m x 50 m. Other sizes on request.

Health & Safety

Safety Data Sheets are available upon request and can also be downloaded directly from www.alumascroofing.com.

Technical Support

Technical advice is available from Alumasc Technical Services at:

Telephone: +44 (0) 1744 648400

Email: technical@alumascroofing.com

The company pursues a policy of constant product development and information contained in this publication is therefore subject to change without notice. The customer is responsible for ensuring that each product is fit for its intended purpose and that the conditions for use are suitable. All quoted data is nominal and subject to production tolerances.