

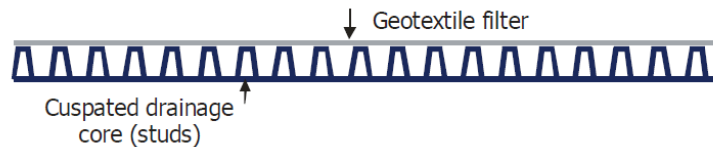
Product Datasheet

Hydrodrain FC6

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Description

Hydrodrain FC6 is a geo-composite unit, comprising a non-woven geotextile filtration layer that is bonded to a High-Density Polyethylene (HD-PE) cuspated core.



Uses

For enhancing water run-off in roof assemblies, planters, podiums and against foundation walls.

Application

Loose lay the geo-composite onto a prepared surface. Ensure that filter fabric is uppermost and facing the backfill. Adjacent rolls should be positioned so that the cuspated cores are butt-jointed. The filter fabric has a 100 mm wide lap for lapping over the fabric of the adjoining unit prior to backfilling.

Product data

	Test standard	Units	Non-woven polypropylene			
Geocomposite properties						
Thickness at 2kPa	EN ISO 9863-1	mm	6.1	+10%		
Mass per unit area	EN ISO 9864	g/m ²	670	approx.		
Compressive Strength		kN/m ²	250			
Tensile strength MD/CMD	EN ISO 10319	kN/m	13/13	-10%		
Elongation at peak MD/CMD	EN ISO 10319	%	45/45	nominal		
CBR puncture resistance	EN ISO 12236	N	2 250	-20%		
Perpendicular water inflow (dimple side only)						
Water flow at 50mm head	EN ISO 11058	l/m ² -s	103	+30%		
At 2kPa permeability (coefficient)	EN ISO 11058	m/s	2.5 x10 ⁻³	+30%		
Breakthrough head	BS 6906 pt 3	mm	0			
In-plane water flow and CMD						
			HG = 1.0		HG = 0.1	
at 20kPa confining pressure	EN ISO 12958	l/m-s	1.60	+0.15	0.48 +0.05	
At 100kPa confining pressure	EN ISO 12958	l/m-s	1.35	+0.15	0.38 +0.05	
At 200kPa confining pressure	EN ISO 12958	l/m-s	1.10	+0.15	0.29 +0.05	
With soft foam contact surfaces to simulate textile intrusion into the core due to soil pressure						
Resistance to weathering	EN 12224	To be covered in 14 days				
Resistance to chemicals	EN 14030	Excellent				
Design life	120 years (manufacturer's declaration)					

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Geotextile properties	Test standard	Units	Non-woven polypropylene	
Thickness at 2kPa	EN ISO 9863-1	mm	1.2	+20%
Tensile strength MD/CMD	EN ISO 10319	kN/m	9.5/9.5	-13%
Pore size O_{90}	EN ISO 12956	μm	120	+30%
CBR puncture resistance	EN ISO 12236	N	1 600	-20%
Dynamic perforation cone drop	EN ISO 13433	mm	32	+20%
Type and material	Non-woven needle-punched and heat-treated long staple fibre polypropylene			
Product dimensions				
Standard roll dimensions	1.1 m x 50 m or 2.2 m x 25 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.

