Specialist Geomembranes

Technical Data Sheet

Landflex Gasflow 25S



A UV stabilised geotextile layer filter, thermally bonded on one side of a cuspated HDPE core, suitable for both active and passive venting systems. Its main application is to remove gases such as Radon, Methane, Carbon Monoxide, Hydrogen Sulphide etc. from below base slabs of offices, industrial and commercial buildings.

The information herein is based upon data obtained by the manufacturer and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data. This information is furnished upon the condition that the person receiving it shall evaluate its suitability for the specific application.

Material Properties	Unit	Test Method	Values
Geotextile			
Type	Non woven staple fibre needle punched and heat treated		
Material	Polypropylene		
Thickness at 2 kPa	mm	EN ISO 9863-1	1.2
Tensile strength MD/CD	kN/m	EN ISO 10319	9.5/9.5
Elongation at peak MD/CD	%	EN ISO 10319	50/50
Pore size O_{90}	µm	EN ISO 12956	115
Water flow at 50mm	$l/m^2.s$	EN ISO 11058	105 ± 30%
Static puncture resistance CBR	N	EN ISO 12236	1600
Dynamic perforation cone drop	mm	EN ISO 13433	32
Core			
Carbon black content	%	ASTM D 1603	0.8-2.5
Type	Single core (cuspated)		
Material	Gas resistant HDPE (High Density Polyethylene)		
In-plane gas flow at 100kPa	@7mm	@3mm	See note.1
	41.1 l/m.sec	20.4 l/m.sec	
With soft foam contact surfaces to simulate textile intrusion into the core due to soil pressure			
Ventilation free path	mm^2/m	(indicative)	11 500
Air volume	l/m^2	(indicative)	18.9
Equivalent void depth	mm	(indicative)	18.9
Intrinsic permeability	m^2	DoE	1.0×10^{-5}
Forcheimer term	sec/m	DoE	18.0
Porosity	-	DoE	0.82
Thickness at 2 kPa	mm	EN ISO 9863-1	26.2
Weight per unit area	g/m^2	EN ISO 9864	1 670
Tensile strength MD/CD	kN/m	EN ISO 10319	20/10
Elongation at peak MD/CD	%	EN ISO 10319	50/35
CBR puncture resistance	N	EN ISO 12236	4 400

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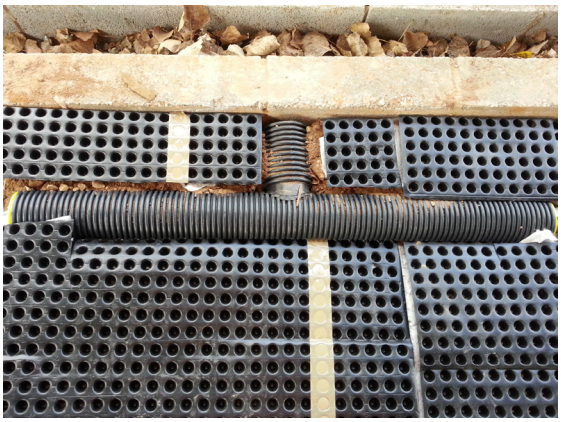
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Material Properties	Unit	Test Method	Values
Resistance to weathering	-	EN 12224	To be covered in 14 days
Design life	120 years (manufacturer's declaration)		
Chemical resistance	-	EN 14030	Excellent resistance to common chemicals
Resistance to microbes	-	EN 12224	No significant effect
Compatibility with gas & waterproofing membranes	Fully compatible. The composite has a flat side in contact with the gas membrane to minimise long term contact stresses.		
Protection efficiency	-	EN 13719	Data available on request
Health, Safety, Environment	INERT: No known health hazard. No precaution necessary.		
Roll dimensions	m	0.915 x 50 (other dimensions may be available)	
Note 1: Gas flow values are based on air flow at normal temperature and pressure and are deduced from a programme of gas and water flow testing.			









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