



Deckdrain 250S/NW8

Deckdrain 1250S/NW8 is a geocomposite drainage layer comprising a high performance high strength single cusped HDPE (High Density Polyethylene) core with a geotextile filter thermally bonded to one side. The textile filter has a flap that extends beyond the core on one edge. The product is practically impermeable one side. It is used as an engineered drainage layer in structural applications, its major areas of use being behind retaining structures, on roof decks and in subsurface works.

Geocomposite Properties		
Thickness at 2kPa	(mm) 12.0	±10% EN ISO 9863-1
Mass per Unit Area	(g/m ²) 1370	approx EN ISO 9864
Tensile Strength MD/CMD	(kN/m) 20 / 20	-10% EN ISO 10319
Elongation at Peak MD/CMD	(%) 45 / 45	nominal EN ISO 10319
CBR Puncture Resistance	(N) 2750	-20% EN ISO 12236
Perpendicular Water Inflow	(dimple side only)	
Water Flow at 50mm Head	(l/m ² .s) 103	±30% EN ISO 11058
At 2kPa Permeability (<i>coefficient</i>)	(m/s) 2.5 x 10 ⁻³	±30% EN ISO 11058
Breakthrough Head	(mm) 0	nominal

In-plane Water Flow MD and CMD	HG =1.0		HG=0.1		Hydraulic gradient
at 20kPa Confining Pressure	(l/m.s) 3.70	±20%	1.10	±20%	EN ISO 12958
at 100kPa Confining Pressure	(l/m.s) 2.90	±20%	0.90	±20%	EN ISO 12958
at 200kPa Confining Pressure	(l/m.s) 2.35	±20%	0.70	±20%	EN ISO 12958

with soft foam contact surfaces to simulate textile intrusion into the core due to soil pressure.

Green-tech endeavour to ensure that the information given on this technical data sheet is accurate, but accept no liability for its use or its suitability for particular application.

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Geocomposite Properties Continued		
Resistance to weathering	To be covered in 28 days	EN 12224
Resistance to chemicals	Excellent	EN 14030
Design life	120 years (manufacturer's declaration)	

Geotextile Properties		
Thickness at 2kPa	(mm) 1.2	±20% EN ISO 9863-1
Tensile Strength MD/CMD	(kN/m) 9.5 / 9.5	-13% EN ISO 10319
Pore size O_{90}	(μ m) 120	±30% EN ISO 12956
CBR Puncture Resistance	(N) 1600	-20% EN ISO 12236
Dynamic Perforation Cone Drop	(mm) 32	+20% EN ISO 13433
Type and Material	Non-woven needle-punched and heat-treated long staple fibre polypropylene.	

Product Dimensions	
Standard Roll Dimensions	1.1m x 50m or 2.2m x 25m. Other sizes on request.

Notes

1. The values given are indicative and correspond to nominal results obtained in our laboratories and testing institutes. In line with our policy of continuous improvement the right is reserved to make changes without notice at any time.
2. The tolerance on roll length is 1.5% and on roll width is 1.0%.
3. Guidance on interface shear strength, creep and certain other parameters is available. Site specific tests are strongly recommended.
4. Final determination of the suitability of any information is the sole responsibility of the user. Green-tech will be pleased to discuss the use of this or any other product but responsibility for selection of a material and its application in any specific project remains with the user.

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