

# Deckdrain S1200/NW8

GEOSYNTHETIC SOLUTIONS \*\*



**Fibertex**  
SOUTH AFRICA

**Deckdrain 1200S/NW8** is a Geocomposite drainage layer comprising a selected high performance single cusped HDPE (High Density Polyethylene) drainage core with a non-woven geotextile filter thermally bonded to the one side. The geotextile filter has a flap that extends beyond the core on one edge. The product is practically impermeable on 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.

## SPECIFICATIONS

Geotextile:					
Type	Non-woven needle punched & heat treated long staple fibre				
Material	PP (Polypropylene)				
Thickness at 2 kPa	(mm)	1.2	±20%	EN ISO 9863-1	
Tensile strength MD/CD	(kN/m)	9.5/9.5	-13%	EN ISO 10319	
Pore Size O <sub>90</sub>	(micron)	120	±30%	EN ISO 12956	
Static puncture resist (CBR)	(N)	1 600	-20%	EN ISO 12956	
Dynamic perf. cone drop	(mm)	32	+20%	EN ISO 13433	
Geocomposite:					
Thickness at 2 kPa	(mm)	12.0	±10%	EN ISO 9863-1	
Mass per unit area	(g/m <sup>2</sup> )	1070	approx.	EN ISO 9864	
Tensile strength MD/CD	(kN/m)	18/15	-10%	EN ISO 10319	
Elongation MD/CD	(%)	45/45	nominal	EN ISO 10319	
CBR puncture resistance	(N)	2 300	-20%	EN ISO 12236	
<b><u>Perpendicular Water Inflow</u></b>	(dimpled side only)				
Water flow at 50mm head	(l/m <sup>2</sup> /s)	103	±30%	EN ISO 11058	
At 2 kPa permeability ( <i>coeff</i> )	(m/s)	2.5 x 10 <sup>-3</sup>	±30%	EN ISO 11058	
Breakthrough head	(mm)	0		BS 6906 pt 3	
<b><u>In-plane water flow MD/CD</u></b>		<b><u>HG = 1.0</u></b>	<b><u>HG = 0.1</u></b>	<b><u>Hydraulic Gradient</u></b>	
At 20 kPa pressure	(l/m.sec)	4.25	-35%	1.25	-35%
At 100 kPa pressure	(l/m.sec)	3.20	-35%	0.85	-35%
At 200 kPa pressure	(l/m.sec)	1.80	-35%	0.45	-35%
With soft foam contact surfaces to simulate textile intrusion into core due to soil pressure					
Resistance to weathering	To be covered in 14 days			EN 12224	
Resistance to Chemicals	Excellent resistance to all common chemicals			EN 14030	
Design Life	120 years (Manufacturers declaration)				
Product Dimensions					
Standard Roll Dimensions	1.1m x 50m or 2.2m x 25m. Other sizes on request				

### Notes:

1. The geotextile is bonded to the core to minimise intrusion into and blockage of the drainage passage under action of pressure of backfill material.
2. The values given are indicative and correspond to nominal results obtained in the manufacturer's laboratories and testing institutes.
3. Unless otherwise stated allowable tolerances are ±10% of the typical value. The tolerance on roll length is 1.5% and on roll width is 1.0%.
4. Due to range of products, interfaces with other products and loading conditions, only selected testing has been done on creep and protection efficiency.

The information contained in this publication is provided in good faith and to the best of our knowledge is true and accurate.

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