

**ROBUST
GEOCOMPOSITE DRAINS**

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Product Data Sheet: Non-woven geotextile with integral band drains at either 0.5m or 1.0m centres. The geotextile is produced from virgin polypropylene containing UV stabiliser.

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Product Grades			SD3	SD4	SD5	SD6	SD7	SD8	SD9	SD11	SD14	SD19	SD22	SD25	SD30	SD40	
Mechanical Properties (Mean values)																	
Static Puncture Strength (CBR)	kN	EN ISO 12236	3	4	5	6	7	8	9	11	14	19	22	25	30	40	
CBR Displacement	mm	EN ISO 12236	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
Tensile Strength (MD/CMD)	kN/m	EN ISO 10319	20	25	30	35	40	45	50	60	75	100	115	130	160	210	
Tensile Elongation (MD/CMD)	%	EN ISO 10319	80	80	80	80	80	80	80	80	80	80	80	80	80	80	
Cone Drop	mm	EN ISO 13433	12	9	6	5	4	3	2	1	<1	0	0	0	0	0	
Hydraulic Properties (Mean values)																	
In-plane water flow with band drains at 1.0m (0.5m) centres	l/m.s @20kPa	EN ISO 12958								0.22 (0.44)							
	l/m.s @100kPa	EN ISO 12958								0.22 (0.44)							
	l/m.s @200kPa	EN ISO 12958								0.18 (0.36)							
Water Flow	l/m ² .s	EN ISO 11058	54	48	36	30	24	20	18	15	10	9	8	7	5	5	
Physical Properties (Typical values)																	
Thickness at 2kPa	mm	EN ISO 9863-1	2.6	2.9	3.5	4.0	5.0	5.5	6.0	7.5	8.5	10.5	12.0	16.0	19.0	19.2	

Durability

This product is predicted to be durable for more than 25 years in soils with a pH in the range 2 to 14 and with a temperature of less than 25°C.

Chemical resistance

Polypropylene is unaffected by the chemicals which normally exist in soils.

Biological resistance

Polypropylene is not a nutrient for micro-organisms and does not provide nourishment for animals & insects.

UV exposure

Fiberweb Geosynthetics' products are delivered to site in polyethylene wrapping to protect against the effects of ultra-violet radiation. It is recommended that the products remain wrapped until their installation. Once unwrapped, the products should be completely covered with fill within 14 days to avoid exposure to UV radiation.

Versions of most products can be manufactured with enhanced UV performance. The remaining properties are identical to the corresponding standard grade.

Adequate precautions should always be taken to protect all products from UV radiation to achieve the stated durability.

Notes:

1. Refer to the *Terram Jointing Methods* (downloadable from www.terram.com) for when simple overlaps are required for subsequent and adjacent roll lengths. However, pegging, sewing, stapling or gluing can also be used depending upon the application, the sub-grade conditions, the loading, the convenience and the cost.
2. These figures relate to standard product weights and roll sizes. Other weights, sizes and colours may be available on request. For further information please contact Fiberweb Geosynthetics' Technical Support.

As part of its continual improvement process Fiberweb Geosynthetics Ltd reserve the right to change the properties listed on this data sheet without prior notice.

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