

Fiberforce® Range



Fiberforce® Range are polypropylene, stable fibre, thermally bonded nonwoven geotextiles and will meet the following roll values when tested in accordance with the methods listed below. The fibres are needed to form a stable network that retains dimensional stability relative to each other. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

PROPERTY	TEST METHOD	ARENA	EXTRA	PREMIUM
Suggested Intensity Level	-	Standard Intensity	Intermediate Intensity	High Intensity
Suggested Jointing Methods	-	Glue	Glue	Glue or Hot Air Weld
MECHANICAL				
Tensile Strength MD	EN ISO 10319	11.5 kN/m	16 kN/m	23 kN/m
Tensile Strength CD	EN ISO 10319	12 kN/m	16.5 kN/m	25 kN/m
Elongation MD	EN ISO 10319	60%	60%	60%
Elongation CD	EN ISO 10319	60%	60%	60%
Dynamic Perforation Resistance (Cone Drop)	EN ISO 13433	23.64 mm	18.65 mm	9.8mm
Resistance to Static Puncture (CBR)	EN ISO 12236	2 kN	2.75 kN	4 kN
HYDRAULIC				
Opening Size O_{90}	EN ISO 12956	0.061mm	0.060mm	0.058mm
Water flow rate q_N	EN ISO 11058	96 l/m ² /s	79 l/m ² /s	63 l/m ² /s
Water flow capacity in the plane: gradient q20/1.0	EN ISO 11058	5.83*10 ⁻⁶ m ² /s	6.12.10 ⁻⁶ m ² /s	6.06.10 ⁻⁶ m ² /s
Water flow capacity in the plane: gradient q200/1.0	EN ISO 11058	1.6*10 ⁻⁶ m ² /s	2.78.10 ⁻⁶ m ² /s	2.28.10 ⁻⁶ m ² /s
Durability	<ul style="list-style-type: none"> Cover after application. Durability planned for a minimum of 25 years on natural soils with a 4<pH<9 and a temperature <25°C. 			
Roll Sizes	-	4.5m x 100m	4.5m x 100m	5.5m x 80m/ 2.2m x 100m
Roll diameter	-	38cm	46cm	52cm/40cm
Roll weight	-	65kg	90kg	135kg/50kg
Weight	EN ISO 9864	140 g/m ²	200 g/m ²	300 g/m ²
Thickness under 2 kPa	EN ISO 9863-1	1.39mm	1.7mm	2.4mm

This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentation. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge becomes available. Since we cannot anticipate all variations in actual end use conditions, Geosynthetics Limited makes no warranties and assumes no liabilities in connection with this information. Nothing in this publication is to be considered as a licence to operate under or a recommendation to infringe any patent right.

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