

High Performance Nonwoven Geotextile Bags for River & Coastal Erosion Protection

Geotextile bags filled with sand provide a secure and practical alternative to stone rip rap when stone is unavailable. Multiple sized geobags filled with sand interlock to form a flexible armor structure to prevent erosive scour of embankments toes beaches and above water flood areas.

Properties of High Performance Geotextile Bag						
Properties	Test Standard	Unit	GB 1	GB 2	GB 3	GB 4
Bag Size (+/- 0.015m)						
Width		m	0.45	0.60	1.50	1.50
Length		m	0.70	0.85	1.80	2.50
Minimum Bag Seam Efficiency	ASTM D 4884	%				
Characteristic peak strength			> 80	> 80	> 80	> 80
Geotextile Properties						
Product description	—		Multi-layered mechanically bonded PP continuous filament nonwoven			
Raw material	—		100% UV stabilized polypropylene			
Wide width tensile strength	ISO 10319	kN/m				
– Machine direction			24	24	30	30
– Cross machine direction			24	24	30	30
Elongation at max. strength	ISO 10319	%				
– Machine direction			90	90	90	90
– Cross machine direction			40	40	40	40
Filtration Characteristics						
Number of filter constrictions	Acc.Giroud		25 – 40	25 – 40	25 – 40	25 – 40
Opening size (O ₉₀)	ISO 12956	mm	0.08	0.08	0.08	0.08
Permeability normal to the plane (50mm head)	ISO 11058	l/m ² /s mm/s	45	45	25	25
UV Resistance (500 hours)	ASTM 4355	%	> 80%	> 80%	> 80%	> 80%

Other forms of supply as well as grades, adjusted to the requirements of the project, are available on request.

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The values given are indicative and correspond to average values.

Further details of this application and products can be obtained by contacting your nearest TenCate Technical Support office.

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