

Combigrid® 30/30 Q1 151 GRK 3



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Combigrids are the next generation of geogrids produced with state of the art manufacturing technology, unlike any other geogrid on the marketplace today. The reinforcement element is a highly oriented polypropylene strap that is extruded and drawn to achieve high modulus and strength at low elongations. A needle punched nonwoven geotextile (150* g/m² (4.4* oz/yd²) is placed between the cross laid reinforcement bars. With the NAUE patented vibratory welding technology the geotextile is firmly bonded and integrated between the longitudinal and the transversal bars of the geogrid. This provides a structurally sound and stable geocomposite for soil reinforcement, separation and filtration.

The following table lists properties of the reinforcing element of **Combigrid® 30/30 Q1 151 GRK 3**

Property	Test Method	Units	md	cmd
Polymer Type			PP	
Structure			welded straps	
pH range			2-13	
Tensile strength				
Ultimate	ASTM D 6637	kN/m lbs/ft	30 2,055	30 2,055
Elongation @ ultimate*	ASTM D 6637	%	8	8
Strength @1%	ASTM D 6637	kN/m lbs/ft	6.6 453	6.6 453
Strength @2%	ASTM D 6637	kN/m lbs/ft	10 686	10 686
Strength @5%	ASTM D 6637	kN/m lbs/ft	21.5 1,475	21.5 1,475
Modulus				
Tensile modulus @ 1%*		kN/m lbs/ft	660 45,300	660 45,300
Tensile modulus @ 2%*		kN/m lbs/ft	500 34,300	500 34,300
Geometry*	Micrometer	mm	32	32
Aperture size*		Inches	1.26	1.26
Structural integrity				
Flexural rigidity*	ASTM D 1388	mg-cm	500,000	500,000
Junction strength*	GRI-GG2	kN/m lbs/ft	9 617	9 617
Aperture stability*	Kinney (COE)	kg-cm/deg	11.4	
Durability				
UV Resistance*	EN ISO 12224	%	95%	
Roll Properties				
Roll Dimensions*		meters / ft	4.75 x 100 / 15.58 x 328	
Roll Area*		sq. mtrs / sq. yds	475 / 568	
Roll weight*		kg / lbs	174 / 384 **	

MARV values shown unless otherwise indicated * Nominal value

****The weight of the core may vary about approx. ± 2 kg / 4.4 lbs**

The above mentioned technical values are average values over the roll width. These data are guiding values achieved in our laboratories and/or independent testing institutes. Our products can be subject to changes without prior notice.

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