

Combigrid® 40/40 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® 40/40 Q1 151 GRK 3**

Property	Test Method	Units	md	cmd
Polymer Type Structure pH range			PP welded straps 2-13	
Tensile strength				
Ultimate	ASTM D 6637	kN/m lbs/ft	40 2,740	40 2,740
Elongation @ ultimate*	ASTM D 6637	%	8	8
Strength @1%	ASTM D 6637	kN/m lbs/ft	8 548	8 548
Strength @2%	ASTM D 6637	kN/m lbs/ft	16 1,096	16 1,096
Strength @5%	ASTM D 6637	kN/m lbs/ft	32 2,192	32 2,192
Modulus				
Tensile modulus @ 1%*		kN/m lbs/ft	800 54,800	800 54,800
Geometry* Aperture size*	Micrometer	mm Inches	32 1.26	32 1.26
Structural integrity				
Flexural rigidity*	ASTM D 1388	mg-cm	750,000	750,000
Aperture stability*	Kinney (COE)	kg-cm/deg	13	
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	

MARV values shown unless otherwise indicated

* Nominal value

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.