

# 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. Combined with a 150\* g/m<sup>2</sup> (4.4\* oz/yd<sup>2</sup>) nonwoven geotextile fixed between the reinforcing elements. This is combined with NAUE patented vibratory welding technology to provide a structurally sound and stable geogrid.

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			<b>PP</b>	
Structure			<b>welded straps</b>	
pH range			<b>2-13</b>	
<b>Tensile strength</b>				
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
<b>Modulus</b>				
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
<b>Structural integrity</b>				
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	
<b>Durability</b>				
UV Resistance*	EN ISO 12224	%	95%	
<b>Roll Properties</b>				
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.