



■ Enkagrid® MAX 30

Enkagrid® MAX 30 is a rigid biaxial geogrid comprised of highly oriented extruded polypropylene. The engineered structure of Enkagrid® MAX 30 is produced using a patented, computer-controlled laser welding production process to create the grid matrix. The quality and integrity of the junctions are precisely controlled throughout the geogrid, resulting in superior durability and long-term performance. Enkagrid® MAX 30 is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

PROPERTY	METHOD	UNITS	Metric	English	
		Metric – English	MD and XMD	MD and XMD	
■ STRENGTH / PERFORMANCE / DESIGN PROPERTIES					
<input type="checkbox"/> Tensile Strengths	ASTM D 6637	kN/m – lbs/ft	6.7	461	
Strength @ 1% Strain			10.7	751	
Strength @ 2% Strain			21.3	1,460	
Strength @ 5% Strain			32.0	2,192	
Strength @ Ultimate		%	8		
<input type="checkbox"/> Tensile Modulus	ASTM D 6637	kN/m – lbs/ft	673	46,100	
Modulus @ 1% Strain			548	37,550	
Modulus @ 2% Strain			426	29,200	
<input type="checkbox"/> Aperture Stability Modulus / Torsional Rigidity Geogrid Design Value – $J^{(1)}$	Kinney (USACOE)	m-N/deg	1.31	(Not Applicable)	
■ QUALITY CONTROL / DURABILITY / INDEX PROPERTIES					
<input type="checkbox"/> Structural / Index	GRI-GG2	kN – lbs kN/m – lbs/ft	0.90	203	
Junction Strength (Ultimate)			18.1	1,241	
<input type="checkbox"/> Durability	ASTM D 5818 & ASTM D 6637	% SS/GC/GCS	98 / 95 / 99		
Resistance to Installation Damage			EPA 9090	100	
Resistance to Long Term Degradation				ASTM D 4355	95
<input type="checkbox"/> Physical	Measured (Typical)	mm – in	41 x 40	1.61 x 1.57	
Aperture Dimensions		width x length	5.0 m x 100 m	16.4 ft x 328 ft	
Roll Size / Packaging / Weight		area	500 m ²	598 yd ²	
		weight	113 kg	249 lbs	
		diameter	41 cm	16 in	

- Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV), are calculated as the Typical minus two standard deviations and are based on a 97.7% confidence level.
- The properties reported above are effective 07/09/09 and are subject to change without notice.

⁽¹⁾ Giroud, J.P. and Han, J., “Design Method for Geogrid-Reinforced Unpaved Roads - I. Development of Design Method”, Journal of Geotechnical and Geoenvironmental Engineering, Vol. 130, No. 8, August 1, 2004, pp. 775-786.

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