

# SPECIFICATION SHEET

## EG30 GEOGRID

EG 30 is a bi-axial polypropylene (PP) geogrid. Manufactured using a punching and drawing process, the polypropylene sheet is stretched in two directions, machine (longitudinal) and cross-machine (transverse). Engineered to be mechanically and chemically stable in aggressive soil environments, the EG geometry allows for strong mechanical interlock with soil particles and features high tensile stiffness at low strains to resist construction damage and environmental exposure and is formulated to resist UV degradation. It is also not susceptible to hydrolysis, environmental stress cracking, and micro-organism attacks.

Tested Property	Test Method	Unit English	Value English (Metric)	
			MD	XD
Minimum Carbon Black Content	ASTM D 4218	%	2	
Ultimate Tensile Strength <sup>(1)</sup>	ASTM D 6637	lbs/ft (kN/m)	2,056 (30.0)	2,056 (30.0)
Tensile Strength at 2% Strain <sup>(1)</sup>	ASTM D 6637	lbs/ft (kN/m)	822 (12.0)	822 (12.0)
Tensile Strength at 5% Strain <sup>(1)</sup>	ASTM D 6637	lbs/ft (kN/m)	1,508 (22.0)	1,508 (22.0)
Junction Strength <sup>(1)(3)</sup>	GRI-GG <sub>2</sub> ASTM D 7737			
Flexural Rigidity <sup>(1)</sup>	ASTM D 7748	mg-cm	1,750,000	
Aperture Stability <sup>(2)(4)</sup>	US. COE	m-N/deg	0.75	
Minimum Rib Thickness	Callipered	inch (mm)	0.09 (2.3)	0.05 (1.3)
Aperture Size <sup>(2)(5)</sup>	Nominal	inch (mm)	1.50 (38)	1.50 (38)
<b>Typical Roll Dimensions</b>				
Roll Width	Minimum	ft (m)	12.95 (3.95)	
Roll Length	Minimum	ft (m)	164.04 (50)	

<sup>(1)</sup> Minimum Average Roll Values (MARV) – Calculated as (mean minus 2x standard deviation) – ASTM-D4759-02.

<sup>(2)</sup> Average

<sup>(3)</sup> Junction efficiency is defined as junction strength divided by multi-rib strength

<sup>(4)</sup> Resistance to in plane rotational movement measure at an applied moment = 2m-N (20kg-cm) in accordance with US Army Corps of Engineers methodology for the measurement of torsional rigidity

<sup>(5)</sup> Aperture tolerance: within +/- 10% coefficient of variance

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