

TGU 300 **Geogrid**

TGU Geogrid is a versatile and high-performance solution for soil reinforcement and various civil engineering applications. Manufactured from high-tenacity polyester yarns through an advanced knitting process and coated with a durable polymeric layer, TGU Geogrids deliver exceptional engineering performance. Designed for mechanical and chemical resilience, these geogrids withstand the demands of challenging construction conditions and perform reliably in aggressive soil environments.

Product Specifications

		UNIT	TGU 300
MECHANICAL PROPERTIES			
Ultimate Tensile Strength (ASTM D 6637)	MD	kN/m (lbs/ft)	300 (20,556)
Creep Reduction Factor (at 20°C, 114 years design life)	MD	RF _{CR}	1.44
Creep Limited Strength	MD	kN/m (lbs/ft)	208.3 (14,275)
Partial Factor - Installation Damage (ASTM D 5818) In sand/silt/clay		RF _{ID}	1.10
Partial Factor - Environmental Effects (GRI-GG7, GRI-GG8) Environment, 3 < pH < 9		RF _D	1.10
Long Term Design Strength (LTDS) *sand/silt/clay	MD	kN/m (lbs/ft)	177 (12,128)
PHYSICAL PROPERTIES			
Roll dimensions (width x length)		m (ft)	1.9 x 88 / 3.8 x 88 / 5.7 x 88* / 3.8 x 438.9 (6.25 x 288 / 12.5 x 288 / 18.75 x 288* / 12.5 x 1,440) *made to order
Roll Area		sy	200 / 400 / 600 / 2,000
MOLECULAR PROPERTIES			
Molecular weight (GRI GG8, ASTM D4603)		g/mol	min. 25,000
Carboxyl end group (CEG) (GRI GG7, ASTM D7409)		mmol/kg	max. 30

* Values above reflect published ultimate values and are derived from Minimum Average Roll Values (MARV).

* Certain custom roll widths and lengths available upon request

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