

TGU 400 **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 400
MECHANICAL PROPERTIES		
Ultimate Tensile Strength (ASTM D 6637)	MD kN/m (lbs/ft)	400 (27,408)
Creep Reduction Factor (at 20°C, 114 years design life)	MD RF _{CR}	1.44
Creep Limited Strength	MD kN/m (lbs/ft)	258.1 19,033
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)	238.2 (16,324)
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

** The information contained herein has been compiled by Terrafix Geosynthetics Inc. and is to the best of our knowledge, true and accurate. This information is offered without a warranty. Final determination of suitability for use contemplated is the sole responsibility of the user. This information is subject to change without notice. 11-2024.