

# SGU 400

## STRATAGRID® PRODUCT DATA SHEET

StrataGrid is a flexible, high-performance line of geogrid products used in soil reinforcement and other civil engineering applications. These geogrids are constructed using high tenacity polyester yarns utilizing a complex knitting process and polymeric coating to provide superior engineering properties. StrataGrid is engineered to be mechanically and chemically durable, in both the harsh construction installation phase and in aggressive soil environments.

	UNIT	SGU 400
<b>MECHANICAL PROPERTIES</b>		
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 <sub>CR</sub>
		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 <sub>ID</sub>
		1.06
Partial Factor - Environmental Effects (GRI-GG7, GRI-GG8) Environment, 3 < pH < 9		RF <sub>D</sub>
		1.10
Long Term Design Strength (LTDS) *sand/silt/clay	MD	kN/m (lbs/ft)
		238.2 (16,324)
<b>PHYSICAL PROPERTIES</b>		
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 600) *made to order
Roll Area		sy
		200 / 400 / 600 / 833
<b>MOLECULAR PROPERTIES</b>		
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

geogrid.com  
1-800-680-7750

This product specification supersedes all prior specifications for the products described and is not applicable to any products shipped prior to January 1, 2020. This information has been carefully compiled by Strata Systems, Inc., and to the best of our knowledge is accurate. Final determination of the suitability of any information or material is the sole responsibility of the user. Structural design shall be performed by a licensed design professional.