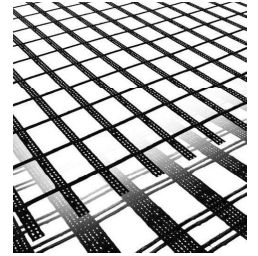
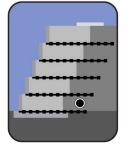




SGU100

Uni-Axial Knitted Geogrid

RETAINING WALL



STRATAGRID SGU100 (formerly SG500) is geogrid reinforcement for soil. These high performance geogrids are constructed of high molecular weight and high tenacity polyester yarns utilizing a complex knitting process and polymer coating provide superior engineering properties. Yarns are precision knitted into a dimensionally stable, uniform network of apertures providing significant tensile reinforcement capacity. STRATAGRID is engineered to be mechanically and chemically durable, in both the harsh construction installation phase and in aggressive soil environments (pH range from 3-9). STRATAGRID SGU100 meets the following properties:

PROPERTY	TEST METHOD	ENGLISH	METRIC
Ultimate Tensile Strength	<u>ASTM D-6637</u>	6,852 lbs/ft	100.04 kN/m
Creep Limited Strength	<u>ASTM D-5262/D-6992</u>	4,726 lbs/ft	69 kN/m
Long Term Design Strength (Sands, Silt and Clay)	LTDS	3.9 x 10 ⁺³ lbs/ft	57.01 kN/m
Carboxyl End Group Count Maximum	GRI GG7, ASTM D7409	30 Meg/kg	30 Meg/kg
Molecular Weight Minimum	GRI GG8	25,000 g/mole	25,000 g/mole
Reduction Factor - Creep (20°C, 114 years design life)		1.45	1.45
Reduction Factor - Environmental Effects Environment, 3<pH<9 (FHWA/AASHTO 1.15-1.30)	GRI-GG7, GRI-GG8	1.1	1.1
Reduction Factor - Installation Damage (sand/silt/clay)	ASTM D 5818	1.1	1.1

SGU100 Shipping & Packaging Information

SIZE	DIAMETER	WIDTH	WEIGHT	AREA	ROLLS PER TRAILER
6.25' x 288'	14"	6.25'	138 lbs	200 y ²	198
12.5' x 288'	14"	12.5'	290 lbs	400 y ²	148

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