



SG 1400

STRATAGRID 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 to 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).

Property	Test Method	English	Metric
Ultimate Strength	ASTM D-6637 Method A	27,408 lbs/ft	400 kN/m
Tensile Modulus @ 2% Strain	ASTM D-6637 Method A	2,740 lbs/ft	40 kN/m
Tensile Modulus @ 5% Strain	ASTM D-6637 Method A	6,852 lbs/ft	100 kN/m
Tensile Strength @ 10% Strain	ASTM D-6637 Method A	19,185 lbs/ft	280 kN/m
Creep Reduction Factor		1.55	1.55
Creep Limited Strength		17,683 lbs/ft	258.1 kN/m
LTDS (SM, SC, CL, ML)	LTDS or Tal	14,614 lbs/ft	213.3 kN/m
LTDS (SW, SP, SM, SC)	LTDS or Tal	14,614 lbs/ft	213.3 kN/m
LTDS (GP, GW, GM, GC, SW, SP, SM, SC)	LTDS or Tal	13,978 lbs/ft	204 kN/m
LTDS (GP)	LTDS or Tal	12,860 lbs/ft	187.7 kN/m
LTDS (GP)(2)	LTDS or Tal	10,047 lbs/ft	146.6 kN/m
Molecular Weight (min.)	GRI GG8	25,000 g/mol	25,000 g/mol
Carboxyl End Group Count (max.)	GRI GG7	30 Meg/kg	30 Meg/kg

Reduction Factor	Value
RF(id) Soil - 25mm minus, D50 ≤ 0.2mm (SM, SC, CL, ML)	1.10
RF(id) Soil - 25mm minus, D50 ≤ 5mm (SW, SP, SM, SC)	1.10
RF(id) Soil - 25mm minus, D50 ≤ 10mm (GP, GW, GM, GC, SW, SP, SM, SC)	1.15
RF(id) Soil - 50mm minus, D50 ≤ 0.20mm (GP)	1.25
RF(id) Soil - 50mm minus, D50 ≤ 0.30mm (GP)	1.60
RF(d) (3 ≤ pH ≤ 9) (PET - CEG < 30, MW > 25,000)	1.10

Soil Interaction Coefficient	Value
Silts/Clay (ML, CL)	0.6 - 0.7
Sandy Silts & Clay (SC,GC)	0.7 - 0.8
Poorly-Graded Sand & Gravel, Silty Sand (GP, GM, SP, SM)	0.8 - 0.9
Well-Graded Gravel, Sand Gravel Mix, Well-Graded Sand (SW, GW)	0.9 - 1.0

Roll Size	Roll Diameter	Area	Weight
12.5' x 200'	16.5 in	278 sqy	630 lbs

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