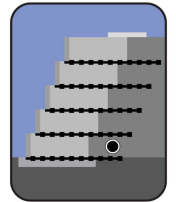




Construction Geosynthetics

RETAINING WALL



SG 150

STRATAGRID 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. 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	1,875 lbs/ft	27.4 kN/m
Tensile Strength @ 2% Strain	ASTM D-6637 Method A	150 x 150 lbs/ft	2.2 x 2.2 kN/m
Tensile Strength @ 5% Strain	ASTM D-6637 Method A	650 x 300 lbs/ft	9.5 x 4.4 kN/m
Tensile Strength @ 10% Strain	ASTM D-6637 Method A	1,410 x 500 lbs/ft	20.6 x 7.3 kN/m
Creep Reduction Factor		1.65	1.65
Creep Limited Strength		1,136 lbs/ft	16.6 kN/m
LTDS (SM, SC, CL, ML)	LTDS or Tal	939 lbs/ft	13.7 kN/m
LTDS (SW, SP, SM, SC)	LTDS or Tal	826 lbs/ft	12.1 kN/m
LTDS (GP, GW, GM, GC, SW, SP, SM, SC)	LTDS or Tal	765 lbs/ft	11.2 kN/m
LTDS (GP)	LTDS or Tal	666 lbs/ft	9.7 kN/m
LTDS (GP)(2)	LTDS or Tal	544 lbs/ft	7.9 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
Aperture Size	Measured	.95 x .90 in	24.1 x 22.9 mm

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)	1.25
RF(id) Soil - 25mm minus, D50 ≤ 10mm (GP, GW, GM, GC, SW, SP, SM, SC)	1.35
RF(id) Soil - 50mm minus, D50 ≤ 0.20mm (GP)	1.55
RF(id) Soil - 50mm minus, D50 ≤ 0.30mm (GP)	1.90
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
6' x 150'	9.0 in	100 sq yd	45 lbs
12' x 150'	11.0 in	200 sq yd	90 lbs

This information is provided for reference only and is not intended as a warranty or guarantee. US Fabrics assumes no liability in connection with the use of this information (1/2017).

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