



Microgrid

Bi-Axial Knitted Geogrid

STRATAGRID Microgrid™ 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 | 2,000 lbs/ft | 29.2 kN/m |
| Creep Limited Strength | ASTM D-5262/D-6992 | 1,149 lbs/ft | 16.8 kN/m |
| LTDS (SW, SP, SM, SC) | LTDS or Tal | 871 lbs/ft | 12.7 kN/m |
| LTDS (GP, GW, GM, GC, SW, SP, SM, SC) | LTDS or Tal | 550 lbs/ft | 8.0 kN/m |
| LTDS (GW, GP, GM, GC) | LTDS or Tal | 550 lbs/ft | 8.0 kN/m |
| Molecular Weight (min.) | GRI GG8 | - | 25,000 g/mol |
| Carboxyl End Group Count (max.) | GRI GG7 | - | 30 Meg/kg |
| Aperture Size | Measured | .10 x .25 in | 2.54 x 6.35 mm |

| ROLL SIZE | AREA | WEIGHT |
|-----------|---------|--------|
| 8' x 225' | 200 sqy | 65 lbs |

| REDUCTION FACTOR | VALUE |
|--|-------|
| RF(id) Soil - 20mm minus, D50 ≤ 0.2mm (SW, SP, SM, SC) | 1.20 |
| RF(id) Soil - 25mm minus, D50 ≤ 8mm (GP, GW, GM, GC, SW, SP, SM, SC) | 1.90 |
| RF(id) Soil - 50mm minus, D50 ≤ 20mm (GW, GP, GM, GC) | 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 |

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