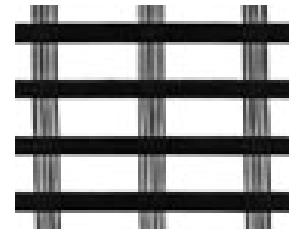




# SG 500



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## Knitted Geogrid

**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 low temperature coating technology 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 2-10). A proprietary UV stabilized coating provides further chemical and mechanical benefits.

| PROPERTY  | TEST METHOD                  | ENGLISH     | METRIC    |
|---|------------------------------|-------------|-----------|
| Ultimate Strength<br>Creep Limited Strength<br>Long Term Design Strength (LTDS) | ASTM D-6637<br>METHOD A      | 6400 lbs/ft | 93.4 kN/m |
|   | ASTM D-5262                  | 4051 lbs/ft | 59.1 kN/m |
|   | FHWA NHI-00-043              |             |           |
|   | Sand, Silt & Clay            | 3507 lbs/ft | 51.2 kN/m |
|   | ¾" minus angular aggregate   | 3348 lbs/ft | 48.9 kN/m |
|   | 1.5" minus angular aggregate | 3069 lbs/ft | 44.8 kN/m |

| PROPERTY                            | ENGLISH          | METRIC              |
|-------------------------------------|------------------|---------------------|
| Roll Dimensions<br>(Width X Length) | 6ft x 300ft      | 1.83m x 91.4m       |
| Area                                | 200 Square Yards | 167.2 Square Meters |
| Roll Weight                         | 130 lbs          | 59.0 kg             |

| REDUCTION FACTORS FOR INSTALLATION DAMAGE & DURABILITY  |           |
|---|-----------|
| RF <sub>installation damage</sub> (Sand, Silt & Clay, D <sub>50</sub> < 0.6mm)                  | 1.05      |
| RF <sub>installation damage</sub> (¾" minus angular aggregate, D <sub>50</sub> < 6mm)           | 1.10      |
| RF <sub>installation damage</sub> (1.5" minus angular aggregate, D <sub>50</sub> < 20mm)        | 1.20      |
| RF <sub>durability</sub>  | 1.10      |
| SOIL INTERACTION COEFFICIENTS FOR PULLOUT (C <sub>i</sub> ) & DIRECT SLIDING (C <sub>DS</sub> ) |           |
| Sand/Clay (ML, CL)  | 0.6 - 0.7 |
| Sandy Silts & Clay (SC, GC)   | 0.7 - 0.8 |
| Uniformly-Graded Sands, Silty Sand (SP, SM)   | 0.8 - 0.9 |
| Gravel, Sand Gravel Mix, Well-Graded Sand (SW, GP, GW)  | 0.9 - 1.0 |

The above information is to the best of our knowledge accurate, but is not intended to be considered as a guarantee. Any implied warranty for a particular use or purpose is excluded. If the Product does not meet the above properties, and notice is given to US Fabrics, Inc., the product will be replaced or refunded. (10/2007).