

STRATAGRID Product Data

STRATAGRID is a geogrid reinforcement for soil, manufactured with high molecular weight / high tenacity polyester yarn. The yarns are precision knitted into a dimensionally stable, uniform network of apertures providing significant tensile reinforcement capacity in two principal directions. This polyester grid is engineered to be both mechanically and chemically durable, in both the harsh construction installation phase and in aggressive soil environments (pH range from 2-12). A black PVC saturation coating provides further chemical and mechanical, as well as ultraviolet protection.

The following are Index Property test values for the **STRATAGRID** product line.

Date: January 1, 2001

S T R A T A G R I D

| Property | Test method | Units | 150 | 200 | 300 | 400 | 500 | 550 | 600 | 700 | |
|-----------------------|----------------------------------|--------------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------|
| Geometry | Rib/Strand Count | Measured | (min) | | | | | | | | |
| | -MD | | number/ft | 12.0 | 13.9 | 15.8 | 7.8 | 7.7 | 7.7 | 7.7 | 8.0 |
| | -CMD | | number/ft | 12.0 | 15.4 | 7.1 | 7.3 | 3.8 | 7.6 | 3.9 | 3.8 |
| | Aperture Size | ID Calipered | (nom) | | | | | | | | |
| | -MD | | inches | 0.90 | 0.68 | 1.56 | 0.97 | 2.30 | 0.70 | 2.09 | 2.34 |
| | -CMD | | inches | 0.90 | 0.65 | 0.60 | 1.00 | 1.00 | 1.10 | 0.96 | 0.90 |
| | Open Area | | %(nom) | 80% | 65% | 74% | 55% | 55% | 55% | 60% | 60% |
| Thickness | ASTM D1777 | (nom) | | | | | | | | | |
| -Rib/Strand | | inches | 0.045 | 0.055 | 0.052 | 0.053 | 0.050 | 0.055 | 0.059 | 0.074 | |
| -Junction | | inches | 0.047 | 0.057 | 0.066 | 0.061 | 0.060 | 0.060 | 0.066 | 0.082 | |
| Weight | ASTM C3776 | oz/yd ² | 6.0 | 9.5 | 10.0 | 13.7 | 12.5 | 13.5 | 14.5 | 17.5 | |
| Strength | Wide Strip | ASTM D4595 | (min) | | | | | | | | |
| | -MD | | lbs/ft | 1,560 | 2,720 | 3,000 | 4,600 | 4,600 | 6,240 | 7,400 | 10,000 |
| | -CMD | | lbs/ft | 1,560 | 1,600 | 1,000 | 3,600 | 1,800 | 1,800 | 1,800 | 1,800 |
| | Creep Reduced Strength | | (min) | | | | | | | | |
| | -MD | | lbs/ft | 969 | 1,689 | 1,863 | 2,857 | 2,857 | 3,876 | 4,596 | 6,211 |
| | -CMD | | lbs/ft | 969 | 994 | 621 | 2,236 | 1,118 | 1,118 | 1,118 | 1,118 |
| | Long Term Design Strength | GRI-GG4 | (min) | | | | | | | | |
| -MD | | lbs/ft | 800 | 1,395 | 1,540 | 2,360 | 2,360 | 3,200 | 3,800 | 5,133 | |
| -CMD | | lbs/ft | 800 | 808 | 505 | 1,818 | 909 | 909 | 909 | 909 | |
| Identification | Roll Size | Width x Length | feet | 6 x 150 | 6 x 300 | 6 x 300 | 6 x 150 | 6 x 150 | 6 x 150 | 6 x 150 | 6 x 150 |
| | | Area | sq. yds | 100 | 200 | 200 | 100 | 100 | 100 | 100 | 100 |
| | | Weight | pounds | 45 | 130 | 135 | 100 | 90 | 95 | 100 | 120 |
| | Style Number | | | | GB-3022 | GB-4024 | GB-6033 | GB-6037 | | GB-10027 | GB-15027 |

(1) (min) = Minimum acceptable value (i.e. lowest average roll).

(2) MD = Machine Direction, running along the roll length.

(3) CMD = Cross Machine Direction, running across the roll length (i.e. running along the roll width).

(4) Aperture Size = Maximum inside dimension measured by calipers in each direction.

(5) (nom) = Nominal value

(6) Open area measured without magnification. Calculated from calipered measurements.

(7) ASTM Method D4595 adapted to geogrids.