



# Miragrid<sup>®</sup> 8XT

Miragrid<sup>®</sup> 8XT geogrid is composed of high molecular weight, high tenacity polyester multifilament yarns woven in tension and finished with a PVC coating. Miragrid<sup>®</sup> 8XT geogrid is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

Miragrid<sup>®</sup> 8XT geogrid is used as soil reinforcement in MSE structures such as; segmental retaining walls, precast modular block walls, wire faced walls, geosynthetic wrapped faced walls and steepened slopes. Miragrid<sup>®</sup> 8XT is also used in MSE stabilized platforms for voids bridging, embankments on soft soils, landfill veneer stability, reducing differential settlement and for foundation seismic stability.

TenCate Geosynthetics Americas is accredited by Geosynthetic Accreditation Institute – Laboratory Accreditation Program ([GAI-LAP](#)).

| Mechanical Properties                             | Test Method           | Unit          | Machine Direction Value |
|---|-----------------------|---------------|-------------------------|
| Tensile Strength @ Ultimate (MARV <sup>1</sup> )  | ASTM D6637 (Method B) | lbs/ft (kN/m) | 7400 (108.0)            |
| Tensile Strength @ 5% strain (MARV <sup>1</sup> ) | ASTM D6637 (Method B) | lbs/ft (kN/m) | 2520 (36.8)             |
| Creep Rupture Strength <sup>2</sup>               | ASTM D5262/D6992      | lbs/ft (kN/m) | 5103 (74.5)             |
| Long Term Design Strength <sup>3</sup>            |                       | lbs/ft (kN/m) | 4419 (64.5)             |

<sup>1</sup> Minimum Average Roll Values (MARV) shown above are based on QC Testing per a defined lot not to exceed 12 months. Testing Frequency follows ASTM D4354, Table 1.

<sup>2</sup> 75-year design life based on NTPEP Report [REGEO-2011-01-001](#) and [REGEO-2015-01-002](#).

<sup>3</sup> Long Term Design Strength for sand, silt, clay.  $RF_{CR} = 1.45$ ;  $RF_{ID} = 1.05$ ;  $RF_D = 1.1$  (Installation damage reduction factor for other soils available upon request).

| Physical Properties                           | Unit                                   | Roll Characteristic  |
|---|--|--|
| Mass/Unit Area (ASTM D5261)                   | oz/yd <sup>2</sup> (g/m <sup>2</sup> ) | 10.8 (366)   |
| Roll Dimensions <sup>4</sup> (width x length) | ft (m)                                 | 6 x 300 (1.8 x 91)<br>12 x 200 (3.6 x 61)<br>12 X 1000 (3.6 x 305) |
| Roll Area                                     | yd <sup>2</sup> (m <sup>2</sup> )      | 200 (168)<br>267 (220)<br>1333 (1114)                              |
| Estimated Roll Weight                         | lbs (kg)                               | 140 (64)<br>205 (93)<br>975 (442)                                  |

<sup>4</sup> Special order roll lengths are available upon request.

Miragrid<sup>®</sup> 8XT and Tensile Strength direction are continuously printed in white on the edge of the roll.

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