



Miragrid® Geogrids

for Soil Reinforcement

TenCate develops and produces materials that function to increase performance, reduce costs and deliver measurable results by working with our customers to provide advanced solutions.

The Difference Miragrid® Geogrids Make:

- High long-term design strengths (LTDS).
 Miragrid[®] geogrids have more than 220,000 hours of tension creep testing performed at an independent test laboratory. Credible, dependable long term strength assured.
- Cost effective. Creep resistant polyester fibers provide higher allowable tensile strength, minimizing the required number of geogrid layers. Wide rolls significantly reducing placement time, lowering cost.
- Light weight, easy to handle.
 No sharp edges.
- Flexible, tough. Minimizes movement of soil structure.
- Custom fabrication. Rolls fabricated to meet your specific project requirements.
- Miragrid® geogrids provide the widest strength range, and are the highest strength geogrid material in the market today.

APPLICATIONS

Miragrid® geogrids can be used in most MSE applications for soil reinforcement including internally reinforced soil walls, segmental retaining wall reinforcement, steep reinforced slopes, and reinforcement in a variety of landfill applications including potential voids bridging and veneer stability. When a project specifies for long-term design strength for structure stability use Miragrid® geogrids.

INSTALLATION GUIDELINES

Before placing Miragrid® geogrids, the surface should be cleared of all debris and the foundation base proofrolled. The grids should be rolled out, cut to length, thus eliminating field connections and laid at the proper elevation, location and orientation. Since geogrids vary in strength with roll direction, Miragrid® geogrids should be laid in the direction of main reinforcement.

After rolling out, the geogrid should be tensioned by hand until it is taut, free of wrinkles, and lying flat. Adjacent geogrid rolls may be butted together side-by-side without overlap. Splices in the main reinforcement direction should be avoided.



Certain fill placement procedures may require the reinforcement to be held in place by stakes, sandbags, or fills, as directed by an engineer. A razor blade, sharp knife or scissors may be used to cut the geogrid. Fill placement should follow the standard practice, or as defined in the project specifications or directed by the Engineer. Care should be taken to prevent wrinkles and/or slippage of reinforcement during fill placement and spreading.

These guidelines serve as a general basis for installation. Detailed instructions are available from your TenCate representative.





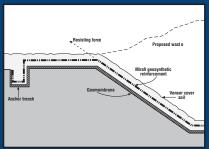
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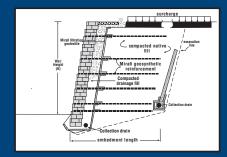
Property	Test Method	Units	2XT ⁴	3ХТ	5XT	7XT	8XT	10XT	20XT	22XT	24XT
Polymer (coating)	-	-	PET (PVC)	PET (PVC)	PET (PVC)	PET (PVC)	PET (PVC)	PET (PVC)	PET (PVC)	PET (PVC)	PET (PVC)
Tensile Strength @ Ultimate (MARV) ¹	ASTM D6637 (Method B)	lbs/ft (kN/m)	2000 (29.0)	3500 (51.1)	4700 (68.6)	5900 (86.1)	7400 (108.0)	9500 (138.6)	13705 (200.0)	20559 (300.0)	27415 (400.0)
Creep Rupture Strength ²	ASTM D5262/ D6992	lbs/ft (kN/m)	1379 (20.0)	2414 (35.2)	3241 (47.3)	4069 (59.4)	5103 (74.5)	6552 (95.6)	9452 (137.9)	14179 (206.9)	18907 (275.9)
Long Term Design Strength ³		lbs/ft (kN/m)	1142 (17.0)	1999 (29.2)	2684 (39.2)	3370 (49.2)	3927 (57.3)	5042 (73.6)	7540 (110.0)	11311 (165.0)	15083 (220.1)
Packaging	Units		2XT⁵	3XT⁵	5XT⁵	7XT⁵	8XT⁵	10XT⁵	20XT⁵	22XT⁵	24XT ⁵
Roll Width	ft (m)		12 (3.6)	12 (3.6)	12 (3.6)	12 (3.6)	12 (3.6)	12 (3.6)	12 (3.6)	12 (3.6)	12 (3.6)
Roll Length	ft (m)		150 (46)	150 (46)	150 (46)	200 (61)	200 (61)	200 (61)	200 (61)	200 (61)	200 (61)
Estimate Roll Weight	lbs (kg)		109 (49)	115 (52)	135 (61)	179 (81)	205 (93)	255 (116)	360 (163)	470 (213)	595 (270)
Area	yd^2 (m^2)		200 (167)	200 (167)	200 (167)	267 (220)	267 (220)	267 (220)	267 (220)	267 (220)	267 (220)

^{&#}x27;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. 275-year design life based on NTPEP Report REGEO-2011-01-001 and REGEO-2015-01-002.

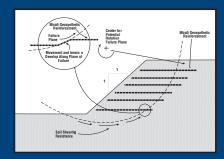
Miragrid® Geogrids Typical Applications



Veneer Reinforcement



Retaining Wall



Steepened Slope

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^{*}Long Term Design Strength for Type 3 Backfill (Sifty Sand), 6-inch lift / 25,000-lb roller.

*Note: Values shown for Miragrid® 2XT are both machine and cross-machine direction. Values for other Mirafi® products are machine direction only.

⁵Available in various roll widths and roll lengths.