

Miragrid® 2XT Biaxial Geogrid for Retaining Wall 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.

Miragrid® 2XT geogrid is a high strength, high tenacity, high molecular weight polyester geogrid manufactured for use in low height segmental retaining walls and reinforced slope facing stability.

Miragrid® 2XT geogrid is woven and then coated with a polymer coating to provide dimensional stability. The high molecular weight, high tenacity polyester yarns used in the Miragrid® 2XT geogrid result in excellent creep resistance. The high molecular weight polyester fibers are also resistant to the potentially degradative effects of hydrolysis and chemical attack in the range of pH normally encountered in reinforced soil environments.

The Difference Miragrid® 2XT Geogrid Makes:

- Biaxial strength. Same strength in both directions.
- Convenient packaging. Small roll packaging for easier handling and storage.
- Roll widths. Available in 4 feet wide (POP bags), 6 feet wide rolls on pallets and 12

feet wide rolls for maximum flexibility.

- Flexible and tough. Delivers immediate soil to geogrid stress transfer ensuring minimal movement of soil structure.
- Lightweight. At least 33% lighter than most rigid geogrids but durable for construction.
- Cost effective. Creep resistant polyester fibers provide a higher allowable tensile strength, minimizing the required number of geogrid layers.
- Easy handling. No sharp edges which may injure workers.

PACKAGING

Miragrid® 2XT is available in point-of-purchase (POP) display packaging or in commercial size rolls.

The POP display box contains 10 rolls, each 4 feet wide x 45 feet long (180 ft²), placed in a clear bag. Each POP display box is printed with quantity estimating information (as shown at right).

INSTALLATION GUIDELINES*

The POP packed rolls can either be purchased in the full box (10 rolls/box) or in 3 roll bundles without a box.

Place Miragrid® 2XT a maximum vertical spacing of every 2 SRW units. Provide adequate drainage and compacted fill per SRW unit manufacturer's instructions. Chart is for estimating purpose only. Final design should be performed by a registered, professional engineer to meet all local codes and regulations. No provisions have been made for global/external stability, nor site topography. Use higher strength Miragrid® geogrids in walls over 6 feet in height.

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



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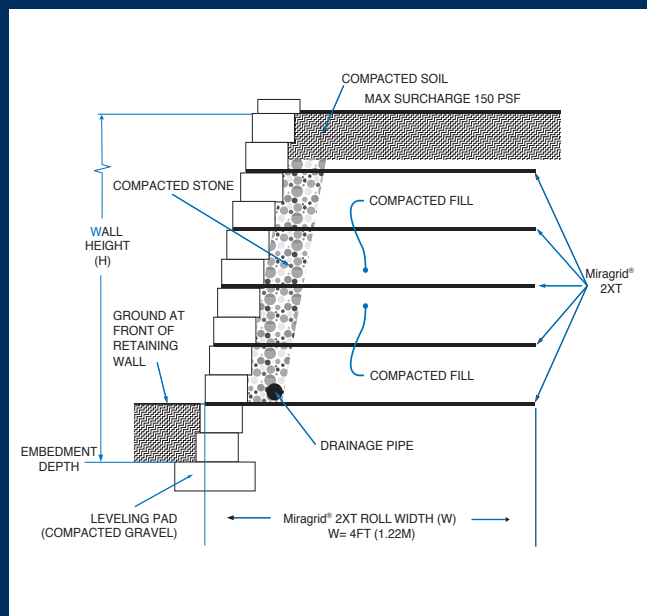
Property	Test Method	2XT
Polymer (coating)	—	PET (PVC)
Ultimate Wide Width Tensile Strength*	ASTM D6637	2000 lbs/ft (29.2 kN/m)
Creep Reduced Strength*	ASTM D5262	1266 lbs/ft (18.5 kN/m)
Long Term Design Strength* (In Type 3 Backfill: sand, silt, clay)	GRI-GG4	1096 lbs/ft (16.0 kN/m)

*Machine Direction and Cross Machine Direction

Roll Packaging	Units	POP Bag	Commercial Pack
Roll Width	ft (m)	4 (1.22)	6.0 (1.8)
Roll Length	ft (m)	45 (13.7)	150 (45.7)
Est. Roll Wt.	lbs (kg)	10 (4.5)	47 (21)
Area	yd ² (m ²)	20 (16.7)	100 (82.3)
Rolls/pallet	-	36	30

BOX Packaging	Units	POP Bags	Commercial Pack
Rolls/box		10	-
Boxes/pallet		4	-
Box height	in (cm)	48.5 (123)	-
Box width	in (cm)	22.5 (57)	-
Box weight	lbs (kg)	100 (45)	-

Miragrid® 2XT Geogrid



Wall Height, H ft (m)	Miragrid® 2XT Roll Width, W ft (m)	# 2XT of layers	
		6" tall blocks	8" tall blocks
3 (0.91)	4.0 (1.22)	3	2
4 (1.22)	4.0 (1.22)	4	2
5 (1.52)	4.0 (1.22)	5	3
6 (1.83)	4.0 (1.22)	6	4

Miragrid® 2XT Quantity Determination

$$\frac{\# \text{ Layers} \times W \times \text{length of wall}}{180 \text{ square foot}} = \# \text{ of rolls}$$

Example: A SRW wall using 6" tall blocks is 6ft tall x 30ft long.
Derived from table: H = 6ft, W = 4ft, & 6 layers.

$$\frac{6 \text{ layers} \times 4\text{ft} \times 30\text{ft}}{180\text{sq. ft per roll}} = 4 \text{ rolls}$$

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