

# MIRAGRID® XT GEOGRIDS

These structures are cost-effective when compared to traditional reinforced concrete methods since they incorporate on-site soils as opposed to importing expensive aggregate. These structures can also be constructed with many different types of facing elements to fit your landscape designs.

Miragrid® XT geogrids are high-performance woven polyester and polymer-coated geogrids used in mechanically stabilized earth (MSE) applications and steepened slopes.

April 2023		Miragrid® XT Geogrid									
Style	Test Method	Units	2XT <sup>5</sup>	3XT <sup>5</sup>	5XT <sup>5</sup>	7XT <sup>5</sup>	8XT <sup>5</sup>	10XT <sup>5</sup>	20XT <sup>5</sup>	22XT <sup>5</sup>	24XT <sup>5</sup>
Polymer (coating)	-	-	PET (PVC)	PET (PVC)	PET (PVC)	PET (PVC)	PET (PVC)	PET (PVC)	PET (PVC)	PET (PVC)	PET (PVC)
Tensile Strength @ Ultimate (MARV) <sup>1</sup>	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 Reduced Strength <sup>2</sup>	ASTM D5262/D6992	lbs/ft (kN/m)	1389 (20.3)	2431 (35.5)	3264 (47.6)	4097 (59.8)	5139 (75.0)	6597 (96.3)	9517 (138.9)	14277 (208.3)	19038 (277.8)
Long Term Design Strength <sup>3</sup>	-	lbs/ft (kN/m)	1203 (17.5)	2104 (30.7)	2826 (41.2)	3547 (51.8)	4449 (64.9)	5712 (83.3)	8240 (120.2)	12361 (180.4)	16483 (240.5)

April 2023		Miragrid® XT Geogrid Packaging									
Style	Units	2XT <sup>5</sup>	3XT <sup>5</sup>	5XT <sup>5</sup>	7XT <sup>5</sup>	8XT <sup>5</sup>	10XT <sup>5</sup>	20XT <sup>5</sup>	22XT <sup>5</sup>	24XT <sup>5</sup>	
Roll Width	ft (m)	4x50 6x150 12x150 (1.2) (1.8) (3.6)	6 12 (1.8) (3.6)	6 12 (1.8) (3.6)	6 12 (1.8) (3.6)	6 12 (1.8) (3.6)	12 (1.8) (3.6)	12 (1.8) (3.6)	12 (1.8) (3.6)	12 (1.8) (3.6)	
Roll Length	ft (m)	50 150 1000 (15) (46) (305)	150 300 1000 (46) (91) (305)	150 300 1000 (46) (91) (305)	200 300 1000 (61) (91) (305)	200 300 1000 (61) (91) (305)	200 1000 (61) (305)	200 1000 (61) (305)	200 (61)	200 1000 (61) (305)	
Estimate Roll Weight	lbs (kg)	25 50 109 (11) (23) (49)	115 115 670 (11) (23) (49)	135 135 831 (52) (52) (304)	130 179 846 (61) (61) (376)	140 205 975 (58) (81) (383)	255 1235 (116)(559)	360 1725 (163) (781)	470 (213)	595 2840 (270) (1287)	
Area	yd <sup>2</sup> (m <sup>2</sup> )	22 100 109 (18) (84) (167)	200 200 1333 (167) (167) (1114)	200 200 1333 (167) (167) (1114)	200 267 1333 (168) (220) (1114)	200 267 1333 (168) (220) (1114)	267 1333 (220)(1114)	267 1333 (220) (1114)	267 (220)	267 1333 (220) (1114)	

- Notes
- 1) 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.
  - 2) 75-year design life based on NTPEP Report REGEO-2016-01-[TenCate-Miragrid® XT].
  - 3) Long Term Design Strength for Type 3 Backfill (Sand, Silt, Clay). RFCR = 1.44, RDID = 1.05, RFD = 1.10
  - 4) Note: Values shown for Miragrid 2XT® are both machine and cross-machine direction. Values for other Mirafi® products are machine direction only.
  - 5) Available in various roll widths and roll lengths.

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