

Miragrid® 2XT

Miragrid® 2XT biaxial geogrid is composed of high molecular weight, high tenacity polyester multifilament yarns are woven in tension and finished with a PVC coating. Miragrid® 2XT biaxial geogrid is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

Miragrid® 2XT 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® 2XT 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	MINIMUM AVERAGE ROLL VALUE	
			MD	CD
Tensile Strength @ Ultimate Mass/Unit Area ¹	ASTM D6637(Method B) (ASTM D5261)	lbs/ft (kN/m) oz/yd ² (g/m ²)	2000 (29.2)	2000 (29.2) 7.1 (241)
			MINIMUM ROLL VALUE	
Creep Rupture Strength ²	ASTM D5262/D6992	lbs/ft (kN/m)	1389 (20.3)	1389 (20.3)
Long Term Design Strength ³		lbs/ft (kN/m)	1202 (17.5)	1202 (17.5)
PHYSICAL PROPERTIES		UNIT	ROLL CHARACTERISTIC	
Roll Dimensions ⁴ (width x length)		ft (m)	4 x 50 (1.2 x 15)	
			6 x 150 (1.8 x 46)	
			12 x 150 (3.6 x 46)	
Roll Area		yd ² (m ²)	22 (18)	
			100 (84)	
			200 (167)	
Estimated Roll Weight		lbs (kg)	25 (11)	
			50 (23)	
			109 (49)	
Label Roll Color			WHITE	

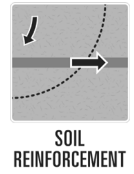
¹Typical Value

²75-year design life based on NTPEP Report [REGEO-2016-01-062](#).

³Value based on Long Term Design Strength for sand, silt, clay. $RF_{CR} = 1.44$; $RF_{ID} = 1.05$; $RF_D = 1.1$
(Installation damage reduction factor for other soils available upon request)

⁴Special order roll lengths are available upon request.

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FGS000116
ETQR36



Miragrid® 3XT

Miragrid® 3XT geogrid is composed of high molecular weight, high tenacity polyester multifilament yarns woven in tension and finished with a PVC coating. Miragrid® 3XT geogrid is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

Miragrid® 3XT 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® 3XT 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.

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MECHANICAL PROPERTIES	TEST METHOD	UNIT	MINIMUM AVERAGE ROLL VALUE
			MD
Tensile Strength @ Ultimate	ASTM D6637(Method B)	lbs/ft (kN/m)	3500 (51.1)
Tensile Strength @ 5% strain	ASTM D6637(Method B)	lbs/ft (kN/m)	1056 (15.4)
Mass/Unit Area ¹	ASTM D5261	oz/yd ² (g/m ²)	7.4 (251)
			MINIMUM ROLL VALUE
Creep Rupture Strength ²	ASTM D5262/D6992	lbs/ft (kN/m)	2431 (35.5)
Long Term Design Strength ³		lbs/ft (kN/m)	2104 (30.7)
PHYSICAL PROPERTIES		UNIT	ROLL CHARACTERISTIC
Roll Dimensions ⁴ (width x length)		ft (m)	6 x 300 (1.8 x 91) 12 x 150 (3.6 x 46) 12 X 1000 (3.6 x 305)
Roll Area		yd ² (m ²)	200 (167) 200 (167) 1333 (1114)
Estimated Roll Weight		lbs (kg)	115 (52) 115 (52) 670 (304)
Label Roll Color			WHITE

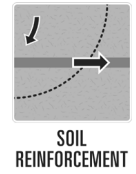
¹ Typical Value

² 75-year design life based on NTPPEP Report [REGEO-2016-01-063](#).

³ Long Term Design Strength for sand, silt, clay. $RF_{CR} = 1.44$; $RF_{ID} = 1.05$; $RF_D = 1.1$ (Installation damage reduction factor for other soils available upon request).

⁴ Special order roll lengths are available upon request.

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FGS000005
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Miragrid® 5XT

Miragrid® 5XT geogrid is composed of high molecular weight, high tenacity polyester multifilament yarns woven in tension and finished with a PVC coating. Miragrid® 5XT geogrid is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

Miragrid® 5XT 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® 5XT 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.

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MECHANICAL PROPERTIES	TEST METHOD	UNIT	MINIMUM AVERAGE ROLL VALUE
			MD
Tensile Strength @ Ultimate	ASTM D6637(Method B)	lbs/ft (kN/m)	4700 (68.6)
Tensile Strength @ 5% strain	ASTM D6637(Method B)	lbs/ft (kN/m)	1740 (25.4)
Mass/Unit Area ¹	ASTM D5261	oz/yd ² (g/m ²)	9.3 (315)
			MINIMUM ROLL VALUE
Creep Rupture Strength ²	ASTM D5262/D6992	lbs/ft (kN/m)	3264 (47.6)
Long Term Design Strength ³		lbs/ft (kN/m)	2826 (41.2)
PHYSICAL PROPERTIES	UNIT	ROLL CHARACTERISTIC	
Roll Dimensions ⁴ (width x length)	ft (m)	6 x 300 (1.8 x 91)	
		12 x 150 (3.6 x 46)	
		12 X 1000 (3.6 x 305)	
Roll Area	yd ² (m ²)	200 (167)	
		200 (167)	
		1333 (1114)	
Estimated Roll Weight	lbs (kg)	135 (61)	
		135 (61)	
		831 (376)	
Label Roll Color		WHITE	

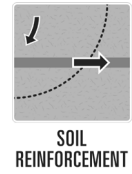
¹ Typical Value

² 75-year design life based on NTPEP Report [REGEO-2016-01-064](#).

³ Long Term Design Strength for sand, silt, clay. $RF_{CR} = 1.44$; $RF_{ID} = 1.05$; $RF_D = 1.1$ (Installation damage reduction factor for other soils available upon request).

⁴ Special order roll lengths are available upon request

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Miragrid® 7XT

Miragrid® 7XT geogrid is composed of high molecular weight, high tenacity polyester multifilament yarns woven in tension and finished with a PVC coating. Miragrid® 7XT geogrid is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

Miragrid® 7XT 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® 7XT 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.

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MECHANICAL PROPERTIES	TEST METHOD	UNIT	MINIMUM AVERAGE ROLL VALUE
			MD
Tensile Strength @ Ultimate	ASTM D6637 (Method B)	lbs/ft (kN/m)	5900 (86.1)
Tensile Strength @ 5% strain	ASTM D6637 (Method B)	lbs/ft (kN/m)	2160 (31.5)
Mass/Unit Area ¹	(ASTM D5261)	oz/yd ² (g/m ²)	9.4 (346)
			MINIMUM ROLL VALUE
Creep Rupture Strength ²	ASTM D5262/D6992	lbs/ft (kN/m)	4097 (59.7)
Long Term Design Strength ³		lbs/ft (kN/m)	3547 (51.7)
PHYSICAL PROPERTIES	UNIT	ROLL CHARACTERISTIC	
Roll Dimensions ⁴ (width x length)	ft (m)	6 x 300 (1.8 x 91) 12 x 200 (3.6 x 61) 12 X 1000 (3.6 x 305)	
Roll Area	yd ² (m ²)	200 (168) 267 (220) 1333 (1114)	
Estimated Roll Weight	lbs (kg)	130 (58) 179 (81) 846 (383)	
Label Roll Color		WHITE	

¹Typical Value

² 75-year design life based on NTPEP Report [REGEO-2016-01-065](#).

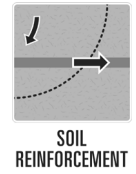
³ Long Term Design Strength for sand, silt, clay. $RF_{CR} = 1.44$; $RF_D = 1.05$; $RF_0 = 1.1$

(Installation damage reduction factor for other soils available upon request.

⁴ Special order roll lengths are available upon request

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Miragrid® 8XT

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

Miragrid® 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® 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.

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MECHANICAL PROPERTIES	TEST METHOD	UNIT	MINIMUM AVERAGE ROLL VALUE
			MD
Tensile Strength @ Ultimate	ASTM D6637(Method B)	lbs/ft (kN/m)	7400 (108.0)
Tensile Strength @ 5% strain	ASTM D6637(Method B)	lbs/ft (kN/m)	2520 (36.8)
Mass/Unit Area ¹	(ASTM D5261)	oz/yd ² (g/m ²)	10.8 (366)
			MINIMUM ROLL VALUE
Creep Rupture Strength ²	ASTM D5262/D6992	lbs/ft (kN/m)	5139 (75.1)
Long Term Design Strength ³		lbs/ft (kN/m)	4449 (64.9)
PHYSICAL PROPERTIES		UNIT	ROLL CHARACTERISTIC
Roll Dimensions ⁴ (width x length)		ft (m)	6 x 300 (1.8 x 91)
			12 x 200 (3.6 x 61)
			12 X 1000 (3.6 x 305)
Roll Area		yd ² (m ²)	200 (168)
			267 (220)
			1333 (1114)
Estimated Roll Weight		lbs (kg)	140 (64)
			205 (93)
			975 (442)
Label Roll Color			WHITE

¹ Typical Value

² 75-year design life based on NTPEP Report [REGEO-2016-01-066](#).

³ Long Term Design Strength for sand, silt, clay. $RF_{CR} = 1.44$; $RF_D = 1.05$; $RF_0 = 1.1$
(Installation damage reduction factor for other soils available upon request).

⁴ Special order roll lengths are available upon request

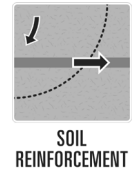
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FGS000067

ETQR25

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Miragrid® 10XT

Miragrid® 10XT geogrid is composed of high molecular weight, high tenacity polyester multifilament yarns woven in tension and finished with a PVC coating. Miragrid® 10XT geogrid is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

Miragrid® 10XT 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® 10XT 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.

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MECHANICAL PROPERTIES	TEST METHOD	UNIT	MINIMUM AVERAGE ROLL VALUE
			MD
Tensile Strength @ Ultimate	ASTM D6637 (Method B)	lbs/ft (kN/m)	9500 (138.6)
Tensile Strength @ 5% strain	ASTM D6637 (Method B)	lbs/ft (kN/m)	3120 (45.5)
Mass/Unit Area ¹	(ASTM D5261)	oz/yd ² (g/m ²)	13.4 (454)
			MINIMUM ROLL VALUE
Creep Rupture Strength ²	ASTM D5262/D6992	lbs/ft (kN/m)	6597 (96.1)
Long Term Design Strength ³		lbs/ft (kN/m)	5712 (83.3)
PHYSICAL PROPERTIES		UNIT	ROLL CHARACTERISTIC
Roll Dimensions ⁴ (width x length)		ft (m)	12 x 200 (3.6 x 61) 12 X 1000 (3.6 x 305)
Roll Area		yd ² (m ²)	267 (220) 1333 (1114)
Estimated Roll Weight		lbs (kg)	223 (102) 1075 (490)
Label Roll Color			WHITE

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, Table 1.

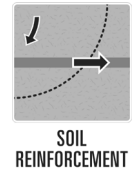
² 75-year design life based on NTPEP Report [REGEO-2016-01-067](#).

³ Long Term Design Strength for sand, silt, clay. $RF_{CR} = 1.44$; $RF_{ID} = 1.05$; $RF_D = 1.1$ (Installation damage reduction factor for other soils available upon request).

⁴ Special order roll lengths are available upon request

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Miragrid® 20XT

Miragrid® 20XT geogrid is composed of high molecular weight, high tenacity polyester multifilament yarns woven in tension and finished with a PVC coating. Miragrid® 20XT geogrid is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

Miragrid® 20XT 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® 20XT 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.

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MECHANICAL PROPERTIES	TEST METHOD	UNIT	MINIMUM AVERAGE ROLL VALUE
			MD
Tensile Strength @ Ultimate	ASTM D6637 (Method B)	lbs/ft (kN/m)	13705 (200.0)
Tensile Strength @ 5% strain	ASTM D6637 (Method B)	lbs/ft (kN/m)	5340 (77.9)
Mass/Unit Area ¹	(ASTM D5261)	oz/yd ² (g/m ²)	19.6 (664)
			MINIMUM ROLL VALUE
Creep Rupture Strength ²	ASTM D5262/D6992	lbs/ft (kN/m)	9517 (138.8)
Long Term Design Strength ³		lbs/ft (kN/m)	8240 (120.2)
PHYSICAL PROPERTIES		UNIT	Roll Characteristic
Roll Dimensions ⁴ (width x length)		ft (m)	12 x 200 (3.6 x 61) 12 x 1000 (3.6 x 305)
Roll Area		yd ² (m ²)	267 (220) 1333 (1114)
Estimated Roll Weight		lbs (kg)	360 (163) 1725 (781)
Label Roll Color			WHITE

¹ Typical Value

² 75-year design life based on NTPEP Report [REGEO-2016-01-068](#).

³ Long Term Design Strength for sand, silt, clay. $RF_{CR} = 1.44$; $RF_{ID} = 1.05$; $RF_D = 1.1$ (Installation damage reduction factor for other soils available upon request).

⁴ Special order roll lengths are available upon request.

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Miragrid® 22XT

Miragrid® 22XT geogrid is composed of high molecular weight, high tenacity polyester multifilament yarns woven in tension and finished with a PVC coating. Miragrid® 22XT geogrid is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

Miragrid 22XT 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 22XT 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.

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MECHANICAL PROPERTIES	TEST METHOD	UNIT	MINIMUM AVERAGE ROLL VALUE
			MD
Tensile Strength @ Ultimate	ASTM D6637 (Method B)	lbs/ft (kN/m)	20559 (300.0)
Tensile Strength @ 5% strain	ASTM D6637 (Method B)	lbs/ft (kN/m)	6700 (97.8)
Mass/Unit Area ¹	(ASTM D5261)	oz/yd ² (g/m ²)	28.2 (956)
			MINIMUM ROLL VALUE
Creep Rupture Strength ²	ASTM D5262/D6992	lbs/ft (kN/m)	14277 (208.3)
Long Term Design Strength ³		lbs/ft (kN/m)	12361 (180.4)
PHYSICAL PROPERTIES		UNIT	ROLL CHARACTERISTIC
Roll Dimensions ⁴ (width x length)		ft (m)	12 x 200 (3.6 x 61)
Roll Area		yd ² (m ²)	267 (220)
Estimated Roll Weight		lbs (kg)	470 (213)
Label Roll Color			WHITE

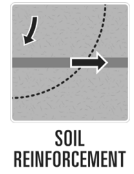
¹ Typical Value

² 75-year design life based on NTPEP Report [REGEO-2016-01-069](#).

³ Long Term Design Strength for sand, silt, clay. $RF_{CR} = 1.44$; $RF_{ID} = 1.05$; $RF_D = 1.1$ (Installation damage reduction factor for other soils available upon request).

⁴ Special order roll lengths are available upon request

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Miragrid® 24XT

Miragrid® 24XT geogrid is composed of high molecular weight, high tenacity polyester multifilament yarns woven in tension and finished with a PVC coating. Miragrid® 24XT geogrid is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

Miragrid® 24XT 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® 24XT 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.

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MECHANICAL PROPERTIES	TEST METHOD	UNIT	MINIMUM AVERAGE ROLL VALUE
			MD
Tensile Strength @ Ultimate	ASTM D6637 (Method B)	lbs/ft (kN/m)	27415 (400.0)
Tensile Strength @ 5% strain	ASTM D6637 (Method B)	lbs/ft (kN/m)	7000 (102.1)
Mass/Unit Area ¹	(ASTM D5261)	oz/yd ² (g/m ²)	32.6 (1119)
			MINIMUM ROLL VALUE
Creep Rupture Strength ²	ASTM D5262/D6992	lbs/ft (kN/m)	19038 (277.8)
Long Term Design Strength ³		lbs/ft (kN/m)	16483 (240.5)
PHYSICAL PROPERTIES	UNIT	ROLL CHARACTERISTIC	
Roll Dimensions ⁴ (width x length)	ft (m)	12 x 200 (3.6 x 61) 12 x 1000 (3.6 x 305)	
Roll Area	yd ² (m ²)	267 (220) 1333 (1114)	
Estimated Roll Weight	lbs (kg)	595 (270) 2840 (1287)	
Label Roll Color		WHITE	

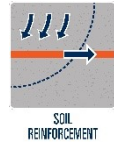
¹ Minimum Average Roll Values (MARV) shown above are based on QC Testing per a defined lot not to exceed 12 months. Testing Frequency follows ASTM D4354, Table 1.

² 75-year design life based on NTPEP Report [REGEO-2016-01-070](#).

³ Long Term Design Strength for sand, silt, clay. RF_{CR} = 1.44; RF_{ID} = 1.05; RF_D = 1.1 (Installation damage reduction factor for other soils available upon request).

⁴ Special order roll lengths are available upon request

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Miragrid[®] XL

Miragrid[®] XL is composed of high molecular weight, high tenacity polyester multifilament yarns which are woven in tension and finished with a PVC coating. Miragrid[®] XL is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

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

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Tensile Strength (at ultimate)	ASTM D6637	lbs/ft (kN/m)	1500 (21.9)	1300 (19.0)
			Minimum Test Value	
UV Resistance (500 hours)	ASTM D4355	%	70	

Physical Properties	Unit	Roll Size
Roll Dimensions (width x length) 36 rolls/pallet	ft (m)	4 x 50 (1.2 x 15.2)
Roll Area	yd ² (m ²)	22 (18.4)

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