



SOIL
REINFORCEMENT

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.

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

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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