

TBX1500 Biaxial Geogrid

Polypropylene – extruded single layer geogrid

Terrafix TBX1500 is a Polypropylene Single Layer Extruded Biaxial Geogrid. Used as an effective base reinforcement and subgrade improvement. Terrafix TBX1500 Biaxial Geogrid is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids. Polypropylene is stable within a pH range of 2 to 13.

Property	ASTM Test Method	Machine Direction Strength (MD)	Cross Machine Direction Strength (XMD)
Mechanical Properties			
 Ultimate Tensile Strength⁽²⁾ Junction Strength Tensile Strength @ 2% Strain⁽²⁾ Tensile Strength @ 5% Strain⁽²⁾ Flexural Stiffness/Rigidity 	D 6637 GRI-GG2 D 6637 D 6637 D 7748	16.0 kN/m 15.5 kN/m 6.5 kN/m 11.5 kN/m 960 g-cm	16.0 kN/m 16.0 kN/m 7.0 kN/m 12.5 kN/m 273 g-cm
 Aperture Stability⁽¹⁾ Radial Stiffness at Low Strain⁽³⁾ 		2.4 kg-cm/deg. @ 20kg-cm torque 209.9 kN/m @ 0.5% strain	
 Multi-Axial Tension Test Vessel Pressure at Rupture Axisymmetric Break Resistance Strain Average Deflection at Rupture 	D 5617	8.2 psi 9.1 % 114 mm	
Roll Properties			
 Aperture Size Average Rib Width Average Rib Thickness Roll Size 	 	39 mm (± 1mm) 3mm 1mm 50m	39 mm(± 1mm) 3mm 1mm 3.95m
Typical Geogrid Properties			
Minimum Carbon Black ContentResistance to UV Degradation	D 4218 D 4355	2% 100%	2%
In-plane torsional rigidity measured by applying a moment to the central jun	ction of a 225mm x 22	25mm specimen restrained at its	perimeter in accordance with U.S

⁽¹⁾ In-plane torsional rigidity measured by applying a moment to the central junction of a 225mm specimen restrained at its perimeter in accordance with U.S. Army Corps of Engineers Methodology for measurement of Torsional Rigidity (Kinney, T.C. Aperture Stability Modulus ref 3, 3.1.2000)

⁽²⁾ Values shown are MARV as per GRI.

⁽³⁾ Radial stiffness is determined from tensile stiffness measured in any in-plane axis from testing in accordance with ASTM D6637-01.

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