

LBO 190 Biaxial Geogrid

TENAX LBO 190 are polypropylene geogrids especially designed for soil stabilization and reinforcement applications. LBO 190 geogrids are manufactured from a unique process of extrusion and biaxial orientation to enhance tensile properties. TENAX LBO 190 geogrids features consistently high tensile strength and modulus, excellent resistance to construction damages, and environmental exposure.

Typical Applications:

Soft soil stabilization, base reinforcement, embankments over soft soils, working platforms, haul roads

PRODUCT PROPERTIES

Technical Characteristics	Units	MD Values ¹	XMD Values ¹
Aperture Dimensions ^{2a}	mm (in)	35 (1.38)	45 (1.78)
Percent Open Area ^{2b}	%	70	
Minimum Rib Thickness ^{2b}	mm (in)	1.3 (0.05)	1.3 (0.05)
Junction Thickness ^{2a}	mm (in)	2.6 (0.10)	
Tensile Modulus @ 2 % Strain ³	N/m (lb/ft)	300,000 (20,562)	300,000 (20,562)
Tensile Strength @ 2% Strain ³	kN/m (lb/ft)	6.0 (411)	6.0 (411)
Tensile Strength @ 5% Strain ³	kN/m (lb/ft)	11.0 (753)	11.0 (753)
Ultimate Tensile Strength ³	kN/m (lb/ft)	15.0 (1,027)	15.0 (1,027)

STRUCTURAL INTEGRITY

Junction Efficiency ⁴	%	90
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DIMENSIONS AND DELIVERY

The biaxial geogrid shall be delivered to the jobsite in roll form with each roll individually identified and nominally measuring 4m (13.1-FT) or 4.87m (16-FT) in width and 75m (246-FT) in length.

Notes

1. Unless indicated otherwise, values shown are minimum average roll values determined in accordance with ASTM D4759-02.
2. (a) Minimum average value (b) Nominal dimensions.
3. Tensile Strength is determined in accordance with ASTM D6637-01.
4. Load transfer capability determined in accordance with GRI-GG2-05 and expressed as a percentage of ultimate tensile strength.

Tenax warrants that the geogrid products delivered hereunder conform to the stated specification at the time of delivery. All other warranties including claims for performance or suitability for application are excluded. This product specification supersedes all prior specifications for the product described above and is not applicable for products shipped before November 2014.

