LBO 170

Bi-axial Geogrid
Polypropylene

TENAX LBO 170 are polypropylene geogrids especially designed for soil stabilization and reinforcement applications. LBO 170 geogrids are manufactured from a unique process of extrusion and biaxial orientation to enhance their tensile properties. TENAX LBO 170 geogrids feature 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

Index Properties	Units	MD Values[1]	XMD Values[1]
Aperture Dimensions[2]	mm (in)	35 (1.38)	42 (1.65)
Minimum Rib Thickness[2]	mm (in)	1.1 (0.04)	1.1 (0.04)
Tensile Strength @ 2% Strain[3]	kN/m (lb/ft)	4.1 (280)	4.1 (280)
Tensile Strength @ 5% Strain[3]	kN/m (lb/ft)	8.0 (550)	8.0 (550)
Ultimate Tensile Strength[3]	kN/m (lb/ft)	11.7 (800)	11.7 (800)

STRUCTURAL INTEGRITY

Junction Efficiency[4]	%	90
Flexural Stiffness[5]	mg-cm	250,000

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 100m (328-FT) in length.

Notes

1. Unless indicated otherwise, values shown are minimum average roll values determined in accordance with ASTM D4759-02. Brief descriptions of test procedures are given in the following notes.
2. Nominal dimensions.
3. Resistance to elongation 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.
5. Resistance to bending force determined in accordance with ASTM D5732-01, using specimens of width two ribs wide, with trans verse ribs cut flush with exterior edges of longitudinal ribs (as a “ladder”), and of length sufficiently long to enable measurement of the overhang dimension. The overall flexural stiffness is calculated as the square root of the product MD and XMD flexural stiffness values.

Tenax warrants that the geogrid products delivered hereunder conforms 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.

Made in USA
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