

Product Specification - Biaxial Geogrid BXSQ3030

Tensar International Corporation reserves the right to change its product specifications at any time. It is the responsibility of the specifier and purchaser to ensure that product specifications used for design and procurement purposes are current and consistent with the products used in each instance.

Product Type: Integrally Formed Biaxial Geogrid
Polymer: Polypropylene

Product Properties

Index Properties

	Units	MD Values ¹	XMD Values ¹
▪ Aperture Dimensions ²	mm (in)	38 (1.5)	38 (1.5)
▪ Rib Thickness ²	mm (in)	2.2 (0.09)	1.5 (0.06)
▪ Tensile Strength @ 2% Strain ³	kN/m (lb/ft)	10.5 (720)	10.5 (720)
▪ Tensile Strength @ 5% Strain ³	kN/m (lb/ft)	21 (1440)	21 (1440)
▪ Ultimate Tensile Strength ³	kN/m (lb/ft)	30 (2055)	30 (2055)

Structural Integrity

▪ Junction Efficiency ⁴	%	93	
▪ Overall Flexural Rigidity ⁵	mg-cm	2,000,000	
▪ Aperture Stability ⁶	m-N/deg	0.75	

Durability

▪ Resistance to Installation Damage ⁷	%SC / %SW / %GP	95 / 93 / 90	
▪ Resistance to Long Term Degradation ⁸	%	100	
▪ Resistance to UV Degradation ⁹	%	100	

Dimensions and Delivery

The biaxial geogrid shall be delivered to the jobsite in roll form with each roll individually identified and nominally measuring 4.0 meters (13.1 feet) in width and 50.0 meters (164 feet) in length and 3.93 meters (12.9 feet) in width and 50.0 meters (164 feet) 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. Determined in accordance with ASTM D6637-10 Method A.
4. Load transfer capability determined in accordance with ASTM D7737-11.
5. Resistance to bending force determined in accordance with ASTM D7748/D7748M-14.
6. Resistance to in-plane rotational movement measured in accordance with ASTM D7864/D7864M-15.
7. Resistance to loss of load capacity or structural integrity when subjected to mechanical installation stress in clayey sand (SC), well-graded sand (SW), and crushed stone classified as poorly graded gravel (GP). The geogrid shall be sampled in accordance with ASTM D5818 and load capacity shall be determined in accordance with ASTM D6637.
8. Resistance to loss of load capacity or structural integrity when subjected to chemically aggressive environments in accordance with EPA 9090 immersion testing.
9. Resistance to loss of load capacity or structural integrity when subjected to 500 hours of ultraviolet light and aggressive weathering in accordance with ASTM D4355-05.

Tensar International Corporation warrants that at the time of delivery the geogrid furnished hereunder shall conform to the specification stated herein. Any other warranty including merchantability and fitness for a particular purpose, are hereby excluded. If the geogrid does not meet the specifications on this page and Tensar is notified prior to installation, Tensar will replace the geogrid at no cost to the customer.

The geogrid specified herein has not been tested, calibrated, or validated in relation to any design methodology for either unpaved roads or flexible pavements.

This product specification supersedes all prior specifications for the product described above and is not applicable to any products shipped prior to January 1, 2015. (07.20)