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Product Specification - Biaxial Geogrid BXSQ100

Product Type: Polymer:

Integrally Formed Biaxial Geogrid Polypropylene

Product Properties

Index Properties	Units	MD Values ¹	XMD Values ¹
 Aperture Dimensions² 	mm (in)	38 (1.5)	38 (1.5)
 Rib Thickness² 	mm (in)	0.7 (0.03)	0.5 (0.02)
 Tensile Strength @ 2% Strain³ 	kN/m (lb/ft)	4.5 (310)	4.5 (310)
 Tensile Strength @ 5% Strain³ 	kN/m (lb/ft)	8.5 (580)	8.5 (580)
 Ultimate Tensile Strength³ 	kN/m (lb/ft)	12.5 (855)	12.5 (855)
Structural Integrity			
 Junction Efficiency⁴ 	%	93	
 Overall Flexural Rigidity⁵ 	mg-cm	160,000	
 Aperture Stability⁶ 	m-N/deg	0.32	
Durability			
 Resistance to Installation Damage⁷ 	%SC / %SW / %GP	95 / 93 / 90	
Resistance to Long Term Degradation ⁸	%	100	
 Resistance to UV Degradation⁹ 	%	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 75.0 meters (246 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 D4595 modified such that strength values are determined based on the number of ribs tested and the resulting load applied to those ribs at a given level of deformation or ultimate load. The final value is computed as the load per number of ribs tested multiplied by the number of ribs per unit width (number of ribs per meter or foot).
- 4. Load transfer capability determined in accordance with ASTM D7737-11.
- 5. Resistance to bending force determined in accordance with ASTM D1388, Option A, using specimen dimensions of 864 millimeters in length by 1 aperture in width.
- 6. Resistance to in-plane rotational movement measured by applying a 20 kg-cm (2 m-N) moment to the central junction of a 9 inch x 9 inch specimen restrained at its perimeter in accordance with GRI GG9.
- 7. Resistance to loss of load capacity or structural integrity when subjected to mechanical installation stress in clayey sand (SC), wellgraded 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 and is not applicable to any products shipped prior to January 1, 2015. (05.18_WDOT)