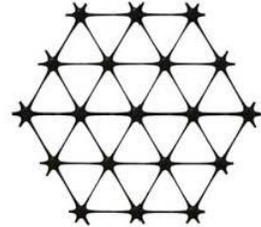


TriAx® TX140 Geogrid

Product Specification

General

1. The geogrid is manufactured from a punched polypropylene sheet, which is then oriented in three substantially equilateral directions so that the resulting ribs shall have a high degree of molecular orientation, which continues at least in part through the mass of the integral node.
2. The properties contributing to the performance of a mechanically stabilized layer include the following:



<u>Index Properties</u>	Longitudinal	Diagonal	Transverse	General
Rib pitch (2), mm (in)	40 (1.60)	40 (1.60)		
Mid-rib depth (2), mm (in)		1.2 (0.05)	1.2 (0.05)	
Mid-rib width (2), mm (in)		1.1 (0.04)	1.1 (0.04)	
Rib shape				rectangular
Aperture shape				triangular
<u>Structural Integrity</u>				
Junction efficiency (3), %				93
Aperture stability (4), kg-cm/deg @ 5.0kg-cm (2)				3.00
Radial stiffness at low strain (5), kN/m @ 0.5% strain				225
(lb/ft @ 0.5% strain)				(15,430)
<u>Durability</u>				
Resistance to chemical degradation (6)				100%
Resistance to ultra-violet light and weathering (7)				100%

NOTES:

- 1) Unless indicated otherwise, values shown are minimum average roll values determined in accordance with ASTM D4759-02. Brief description of test procedures are given in the following notes.
- 2) Nominal dimensions.
- 3) Load transfer capability determined in accordance with GRI-GG2-87 and GRI-GG1-87 and expressed as a percentage of ultimate tensile strength.
- 4) In-plane torsional rigidity measured by applying a moment to the central junction of a 225 mm x 225 mm specimen restrained at its perimeter in accordance with the U.S. Army Corps of Engineers methodology for measurement of Torsional Rigidity, (Kinney, T. C. Aperture stability Modulus ref 3.3.1.2000).
- 5) Radial stiffness is determined from tensile stiffness measured in any in-plane axis from testing in accordance with ASTM D6637-01.
- 6) Resistance to loss of load capacity or structural integrity when subjected to chemically aggressive environments in accordance with EPA 9090 immersion testing.
- 7) 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.

TX geogrid comes in a roll measuring 13.1 feet wide by 246 feet long.
Valley Precast, Inc. will cut to the length needed per customer request.



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