# Product Specification - TriAx® TX160 Geogrid

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## Tensar TriAx® Geogrid

### General

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- 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:

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Properties	Longitudinal	Diagonal	Transverse	General
Rib pitch <sup>(2)</sup> , mm (in)	40 (1.60)	40 (1.60)	-	
Mid-rib depth <sup>(2)</sup> , mm (in)	-	1.6 (0.06)	1.4 (0.06)	
Mid-rib width <sup>(2)</sup> , mm (in)	-	1.0 (0.04)	1.2 (0.05)	
Rib shape				rectangular
Aperture shape				triangular

### Structural Integrity

	Junction efficiency <sup>(3)</sup> , %	93
-	Aperture stability <sup>(4)</sup> , kg-cm/deg @ 5.0kg-cm <sup>(2)</sup>	3.6
-	Radial stiffness at low strain <sup>(5)</sup> , kN/m @ 0.5% strain	300
	(lb/ft @ 0.5% strain)	(20,580)

## Durability

	Resistance to chemical degradation <sup>(6)</sup>	100%
•	Resistance to ultra-violet light and weathering <sup>(7)</sup>	100%

#### **Dimensions and Delivery**

The TX Geogrid shall be delivered to the jobsite in roll form with each roll individually identified and nominally measuring 3.0 meters (9.8 feet) and/or 4.0 meters (13.1feet) in width and 75 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. 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 225mm x 225mm specimen restrained at its perimeter in accordance with GRI-GG9 modified.
- 5. Radial stiffness is determined from tensile stiffness measured in any in-plane axis from testing in accordance with ASTM D6637-10.
- 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.

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