

Product Specification – AmeriGrid EL130-660

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Tensar TriAx® Geogrid

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:

				* * *
Index Properties		Longitudinal	Diagonal	General
•	Rib pitch ⁽²⁾ , mm (in)	33 (1.30)	33 (1.30)	
•	Rib shape			Rectangular
•	Aperture shape			Triangular

Structural Integrity

•	Junction efficiency ⁽³⁾ , %	93
•	Isotropic Stiffness Ratio ⁽⁴⁾	0.6
•	Radial stiffness at low strain ⁽⁵⁾ , kN/m @ 0.5% strain	200
	(lb/ft@0.5% strain)	(13,708)

Durability

	Resistance to chemical degradation ⁽⁶⁾	100%
•	Resistance to ultra-violet light and weathering ⁽⁷⁾	70%

Dimensions and Delivery

The TX geogrid shall be delivered to the jobsite in roll form with each roll individually identified and nominally measuring 6 feet in width and 60 feet in length.

Notes

- 1. Unless indicated otherwise, values shown are minimum average roll values determined in accordance with ASTM D4759. Brief descriptions of test procedures are given in the following notes.
- 2. Nominal dimensions.
- 3. Load transfer capability determined in accordance with ASTM D6637 and ASTM D7737 and expressed as a percentage of ultimate tensile strength.
- 4. The ratio between the minimum and maximum observed values of radial stiffness at 0.5% strain, measured on rib and midway between rib directions.
- 5. Radial stiffness is determined from tensile stiffness measured in any in-plane axis from testing in accordance with ASTM D6637.
- 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.

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