

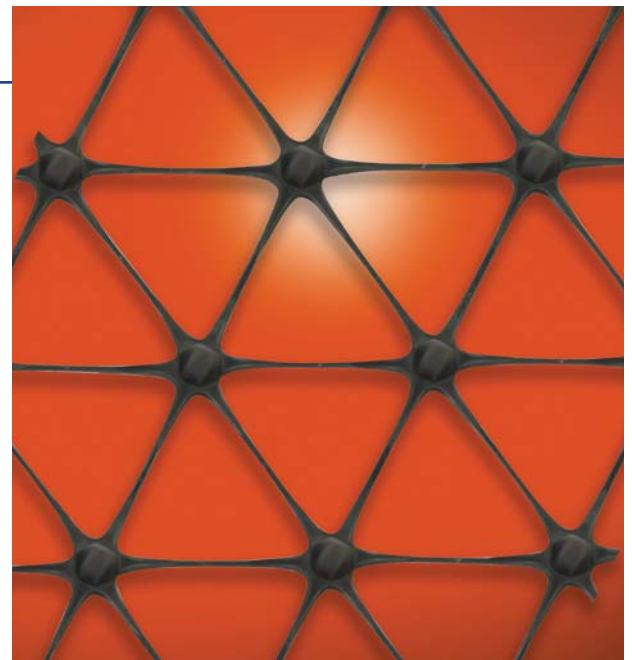
Tensar TriAx™ Geogrid

Tensar TriAx™ geogrid has been developed to improve performance over Tensar biaxial geogrids. These developments are to the profile of the ribsection, junction efficiency, aperture size and, of particular importance, in-plane stiffness. The TriAx™ geogrid is formed using the most stable geometric shape - the equilateral triangle - as opposed to the rectangular or square structure that makes up the conventional biaxial product. Extensive independent tests have shown it to have superior performance in multi-directional stiffness and hence aggregate confinement when compared with Tensar biaxial grids, enabling a reduction in granular layer thickness. TriAx™ TX160 geogrid helps to stabilize the ground by increasing bearing capacity, controlling differential settlement, reducing layer thickness and increasing load distribution. TriAx™ TX160 can be used as part of the construction profile for BodPave™ ground reinforcement paving grids.

Tensar TriAx™ geogrid provides exceptional performance:

- Scientifically proven to functionally outperform Tensar biaxial geogrids
- Reduces sub-base requirement compared with Tensar biaxial geogrids
- Reduces whole life cost
- 360° directional properties

The unique TriAx™ structure incorporates several characteristics which combine to create an optimized structure that outperforms Tensar biaxial geogrids in trafficking applications. When combined with a suitable aggregate TriAx™ produces a mechanically stabilized layer with exceptional performance.



LOAD DISTRIBUTION - Load distribution is 3-dimensional in nature and acts radially at all levels in the aggregate.

MULTI-DIRECTIONAL PROPERTIES - Biaxial geogrids have tensile stiffness predominantly in two directions. TriAx™ geogrids have three principal directions of stiffness, which is further enhanced by their rigid triangular geometry providing stiffness through 360°.

JUNCTION INTEGRITY - The Tensar TriAx™ manufacturing process results in a product with high junction strength and stiffness.

JUNCTION EFFICIENCY - The high strength junctions and stiff ribs provide effective mechanical interlock of aggregate particles into the aperture.

GREATER INTERLOCK AND CONFINEMENT - In a mechanically stabilized layer, aggregate particles interlock within the geogrid and are confined within the apertures, creating an enhanced composite material with improved performance characteristics.

Tensar TriAx™ testing has proved the structural benefits over Tensar biaxial geogrids which include

- Improved confinement of aggregate and enhanced performance of a mechanically stabilized layer
- An increase in traffic life for a given sub-base thickness
- A reduction in sub-base thickness for a given traffic load

Technical Specifications

PRODUCT	ROLL SIZE	APERTURE SHAPE	RIB SHAPE	RIB PITCH	NOMINAL UNIT WEIGHT	IN-PLANE STIFFNESS	MATERIAL	PART No.
TX160	13' x 246'	Triangular	Rectangular	1.57"	152lbs	505*	PP	058556

* Minimum radial secant modulus at low strain (kN/m @ 0.5% strain) : 505

Tensar TriAx™ ground stabilisation geogrid has many other applications. Please contact our technical team for further information.

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