Tensar TriAx® Stabilisation Geogrid
Model Specification – TX150

This model specification is intended for use where the specifier wishes to specify a Tensar TriAx stabilisation geogrid by name or may require the option to specify without use of proprietary product names or trademarks.

1. The stabilisation geogrid shall be Tensar TriAx TX150 [OPTIONAL CLAUSE]

2. The stabilisation geogrid shall have European Technical Assessment (ETA) Certification for the intended use of stabilisation of unbound layers by way of interlock with the aggregate, issued in accordance with European Organisation for Technical Assessment (EOTA®) European Assessment Document (EAD) 080002-00-0102.

3. The stabilisation geogrid shall be manufactured in accordance with a management system which complies with the requirement of BS EN ISO 9001:2008. If required by the Engineer, the Contractor shall provide evidence of the manufacturer's certification of its Quality Assurance System.

4. The stabilisation geogrid shall be manufactured from polypropylene.

5. The stabilisation geogrid class shall be 'punched and stretched'.

6. The stabilisation geogrid shall have a hexagonal structure with ribs oriented in three directions. The resulting triangular-shaped apertures are defined by ribs of rectangular cross section having a high degree of molecular orientation which is continuous through the node.

7. The Radial Secant Stiffness measured at 0.5% strain shall be 360kN/m (within a tolerance of -75kN/m), measured in accordance with EOTA® Technical report TR41 B.1. (1)

8. The Radial Secant Stiffness Ratio shall be 0.80 (within a tolerance of -0.15), measured in accordance with EOTA® Technical report TR41 B.1. (1)

9. The Junction Efficiency shall be 100% (within a tolerance of -10%) measured in accordance with EOTA® Technical report TR41 B.2. (1)

10. The Hexagon Pitch of the geogrid shall be 80mm (within a tolerance of ±4mm). Where hexagon pitch is the distance between alternate parallel ribs, measured in accordance with EOTA® Technical report TR41 B.4. (1)

11. The geogrid shall have a minimum of 2% finely divided carbon black, well dispersed in the polymer matrix to inhibit attack by ultra violet light, determined in accordance with ASTM D1603-06.

For product identification purposes the following characteristics shall be used.

a. The Radial Secant Stiffness measured at 2% strain shall be 250kN/m (within a tolerance of -65kN/m), measured in accordance with EOTA® Technical report TR41 B.1. (1)

b. The Hexagon Pitch of the geogrid shall be 80mm (within a tolerance of ±4mm). Where hexagon pitch is the distance between alternate parallel ribs, measured in accordance with EOTA® Technical report TR41 B.4. (1)

c. Weight of the product shall be 0.205 kg/m^2 (within a tolerance of -0.035kg/m^2) Measured in accordance with EOTA® Technical Report TR41 B.3. (1)

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Notes

The values declared are expressed as a nominal value and a tolerance in such a manner that the nominal value + or – the tolerance represents 99.7% of the population, i.e. a 99.7% 'tolerance interval'

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