



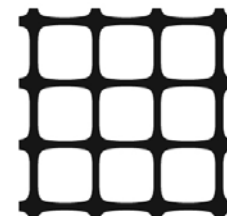
Performance-related Product Specification Tensar SS20



General

Tensar Biaxial Geogrid

1. The mechanical stabilisation element shall be a geogrid manufactured in accordance with a management system which complies with the requirements of BS EN ISO 9001:2000 and BS ISO 14001:2004. If required by the Engineer, the Contractor shall provide evidence of the manufacturer's certification of its Quality Assurance System and the Environmental Management System.
2. The mechanical stabilisation element shall be a geogrid manufactured from a punched polypropylene sheet, which is then oriented in two directions so that the resulting ribs shall have a high degree of molecular orientation, which continues through the mass of the integral node.
3. The properties identified as having a contribution to the performance of a mechanically stabilised layer are:



| Geometrical | Longitudinal | Transverse | General |
|--|--------------|------------|-------------|
| Rib pitch (mm) | 39 | 39 | |
| Mid-rib depth (mm) | 1.1 | 0.8 | |
| Mid-rib width (mm) | 2.2 | 2.4 | |
| Nodal thickness (mm) | | | 4.1 |
| Rib shape | | | rectangular |
| Mechanical | | | |
| Junction efficiency ⁽¹⁾ (%) (min) | 95 | 95 | |
| Aperture stability ⁽²⁾ (kg-cm/deg) (min) | | | 4.1 |
| Radial stiffness at low strain ⁽³⁾ (kN/m @ 0.5% strain) (min) | | | 150 |
| Durability | | | |
| Resistance of chemical degradation ⁽⁴⁾ | | | 100% |
| Resistance to ultra-violet light and weathering ⁽⁵⁾ | | | 100% |
| Resistance to installation damage ⁽⁶⁾ | | | > 90% |

Notes

1. Load transfer capability determined in accordance with GRI-GG2-87 and GRI-GG1-87 and expressed as a percentage of ultimate tensile strength.
2. In-plane torsional rigidity measured in accordance with U.S. Army Corps of Engineers Methodology for measurement of Torsional Rigidity, (Kinney, T.C. Aperture Stability Modulus rev 3.1.2000).
3. Radial stiffness is determined from tensile stiffness measured in any in-plane axis and derived from testing in accordance with ISO 10319:1996.
4. Resistance to loss of load capacity when subjected to chemically aggressive environments in accordance with testing to EN12960 as part of a durability assessment in accordance with ISO13434:1999 7.3
5. Resistance to loss of load capacity when subjected to ultra-violet light and weathering in accordance with testing to EN12224 as part of a durability assessment in accordance with ISO13434:1999 7.2
6. Resistance to loss of load capacity or structural integrity when subjected to mechanical installation stress in crushed stone classified as poorly graded gravel (GP). The geogrid shall be sampled in accordance with BS 8006:1995 and load capacity shall be determined in accordance with ISO 10319:1996.
7. All dimensions are typical unless otherwise stated

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Tensar is a registered trade mark

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