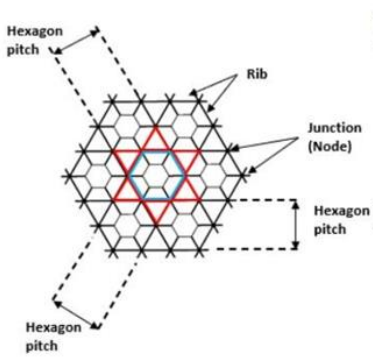
# Product Data Sheet
# Tensar® HXL-G Geocomposite

## General

The Tensar H-Series geocomposite is manufactured from an extruded, polymer sheet, which is then punched and stretched. The resulting geogrid structure consists of continuous and non-continuous ribs forming three aperture geometries (hexagon, trapezoid, and triangle) and an unimpeded suspended hexagon. A non-woven geotextile is then bonded to the geogrid to form a geocomposite.




Tensar HXL-G Geocomposite Plan View

Tensar HXL-G Perspective View

The Tensar H-Series geocomposite uses the distinct stabilisation function as defined in ISO 10318 to minimise the movements of unbound granular material in road, rail and other trafficked areas. Extensive performance testing has demonstrated that when included as a component of a mechanically stabilised layer, the mechanical behaviour of the unbound layer is improved. The characteristics below allow product identification only.

| Identification Properties [1] | General |
|---|---|
| **Geogrid component** | |
| Aperture shapes | Hexagonal,Trapezoidal,&Triangular |
| Structure | Integrally Formed |
| Rib shape | Rectangular |
| Continuous parallel rib pitch | 120mm |
| Rib aspect ratio[2] | > 1.0 |
| Node thickness | 4.00mm |
| Colour identification | Black |
| **Geotextile component** | |
| Static puncture resistance[3] | 1.30kN (Tolerance -0.5kN) |
| Dynamic perforation resistance[4] | 35mm (Tolerance +10mm) |
| Characteristic opening size[5] | 140µm (Tolerance ±60µm) |
| Water permeability normal to the plane (Velocity Index)[6] | 0.11m/s (Tolerance -0.05m/s) |

## Dimensions and delivery

The geocomposite shall be delivered in roll form with each roll individually identified as Tensar HXL-G geocomposite. Roll dimensions are typically 50m long by 3.8m wide.

**Notes**

1. Unless noted otherwise, the values shown are nominal
2. Ratio of the mid-rib depth to the mid-rib width
3. Measured in accordance with EN ISO 12236
4. Measured in accordance with EN ISO 13433
5. Measured in accordance with EN ISO 12956
6. Measured in accordance with EN ISO 11058



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