Tensar® InterAx® NX750

General

The geogrid is manufactured from a coextruded, composite polymer sheet, which is then punched and oriented. The resulting structure consists of continuous and non-continuous ribs forming three aperture geometries (hexagon, trapezoid, and triangle) and an unimpeded suspended hexagon.

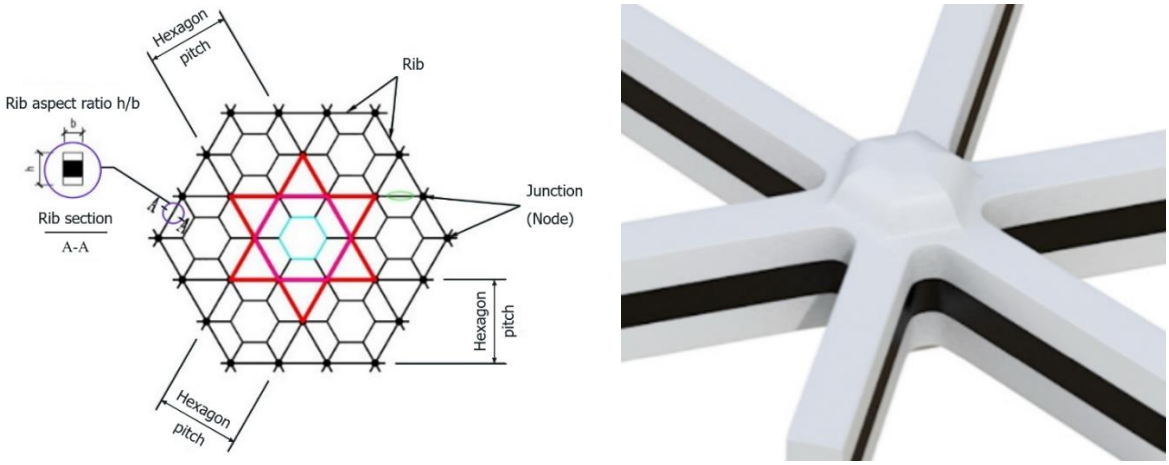

Figure 1. Tensar InterAx NX750 geogrid

The Tensar InterAx geogrid uses the distinct stabilization function as defined in ISO 10318 to minimize 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 stabilized layer, the mechanical behavior of the unbound layer is improved.

The Tensar InterAx geogrid is manufactured in accordance with the Quality Management System, Environmental Management System, Occupational Health and Safety Management System which comply with the requirements of BS EN ISO 9001:2015, BS EN ISO 14001:2015, and ISO 45001:2018, respectively.

The characteristics below allow product identification only.

Identification Properties	Index	Test method
Aperture shapes	Hexagonal, Trapezoidal, & Triangular	Visual assessment according to Figure 1
Structure	Coextruded & Integrally Formed	
Rib shape	Rectangular	Visual assessment according to Figure 1
Node thickness, mm	3.5	Measured with micrometre
Rib aspect ratio [1]	≥1.0	Measured with micrometre, Refer to Notes

Continuous parallel rib pitch [2], mm	80±4	EOTA TR041
Radial secant stiffness at 2% strain [3], kN/m	≥130	EOTA TR041 eota-tr041-hexagonal-geogrids-2017.pdf
Weight of the product [4], kg/m^2	≥ 0.220	EOTA TR041
Color identification	3 layers White / Black / White	Visual assessment according to Figure 1
Durability statement [5,6,7]	The minimum working life of the geogrid in natural soils with a pH value between 4 and 9 is assumed to be 100 years in soil temperatures less than 15°C and expected to be 50 years in soil temperatures less than 25°C, when covered within 30 days.	Refer to Notes

Notes:

1. Ratio of the mid-rib depth to the mid-rib width.
2. Measured in accordance with EOTA Technical report TR041 B.4
3. Measured in accordance with EOTA Technical report TR041 B.1
4. Measured in accordance with EOTA Technical report TR041 B.3
5. Resistance to weathering of geogrid assessed in accordance with EN 12224. The retained strength is greater than 90% giving a maximum time for exposure after installation of 1 month.
6. Resistance to Oxidation is greater than 90%, is determined in accordance with EN ISO 13438.
7. Resistance to acid and alkali liquids is greater than 90%, is determined in accordance with EN 14030.

Delivery

The geogrid shall be delivered in roll form with each roll individually identified as Tensar NX750 geogrid. Roll dimensions are typically 50m long by 3.8m wide.

Cautions

This Tensar Product Identification Sheet provides parameters appropriate for the named Tensar InterAx geogrid for product identification purposes only. The parameters included relate to the stabilisation function of the Tensar InterAx product. Specification advice can be provided by Tensar on request.