

**Tensar Declaration of Performance
Tensar[®] H-Series[™] HXL Geogrid**



- 1) Unique identification code of the product type:
Tensar[®] H-series[™] HXL
- 2) Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):
Geogrid HXL – Batch number is provided on the product packaging
- 3) Intended use or uses of the construction product, in accordance with the applicable European Assessment Document, as foreseen by the manufacturer:
Non-reinforcing hexagonal geogrid for the stabilisation of unbound granular layers by way of interlock with the aggregate
Intended use: Stabilisation
- 4) Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):
Manufactured in:
Factory A, Factory B
Tensar International Limited
Unit 2-4 Cunningham Court
Shadsworth Business Park
Blackburn
BB1 2QX
United Kingdom
Tel: **+44 (0) 1254 262431**
E-mail: tensarinfo-uk@cmc.com
- 5) System or systems of assessment and verification of constancy of performance of the construction product as set out in the CPR, Annex V:
System 2+

Last two digits of year of affixing CE marking – 24
- 6) In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:
Notified certification body KIWA Nederland B.V. issued European Technical Assessment 23/0504 on the basis of 'European Assessment Document' EAD 080002-00-0102 edition 04-2016 and the specific test procedures outlined in the EOTA Technical report TR 041- "Non-reinforcing hexagonal geogrid for the stabilization of unbound granular layers by the way of interlock with the aggregate" KIWA No-0799 performed the initial inspection of the manufacturing plant and of factory production control and the continued surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control.

Warning - This Declaration of Performance is made available to a customer of Tensar International with respect to geogrid supplied under a contract of sale. Improper use of the document includes the comparison of products for the purpose of claiming 'equivalence' both generally and for an unrelated project.

7) Declared performance:

Performance Related Physical Properties of the Geogrid				European Assessment Document
Essential characteristic		Performance		European Technical Assessment 23/0504 on the basis of 'European Assessment Document' EAD 080002-00-0102 edition 04-2016 and the specific test procedures outlined in the EOTA technical report TR 041- "Non-reinforcing hexagonal geogrid for the stabilization of unbound granular layers by the way of interlock with the aggregate"
Product characteristic	Unit of characteristic	Declared Value	Tolerance	
Radial Secant Stiffness at 0.5% strain	kN/m	300	-70	
Radial Secant Stiffness Ratio	-	0.55	-0.25	
Junction Efficiency	%	100	-10	
Hexagon Pitch	mm	120	±6	
Dangerous substances (National Regulations in force in EU Member States)		Less than required by national regulations in EU Member States		
Durability Statement				
The minimum working life is assumed to be 100 years in natural soils with a pH value between 4 and 9 and in soil temperatures less than 15°C and is expected to be 50 years in natural soils with a pH value between 4 and 9 and in soil temperatures less than 25°C, when covered within 30 days. (Rep No -1.1/29173/0077.0.1-2023e)				
Properties for Identification of the Product				
Product characteristic	Unit of characteristic	Declared Value	Tolerance	
Radial Secant Stiffness at 2% strain	kN/m	220	-70	
Hexagon Pitch	mm	120	±6	
Weight of the product	kg/m²	0.310	-0.06	

- 8) The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7. This declaration of performance is issued under the sole responsibility of the manufacturer in point 4.
Signed for and on behalf of the manufacturer by:

Name: Steven Howard

Function: Quality Manager

Date of Issue: 10/05/2024

Signature: 

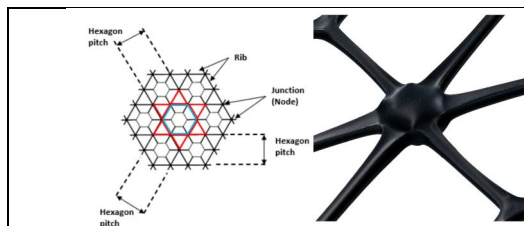


Fig 1: ETA 23/0504

The polypropylene sheet is extruded as a monolayer. The polypropylene is not virgin material, it is according to ISO 14021 pre- or post-consumer recycled content of Tensar polypropylene geogrids. In all cases the resulting extruded sheet is still >85% polypropylene. The sheet recipe range is included in the agreed data/information on composition and manufacturing process deposited at Kiwa Nederland B.V.

Whilst the durability statement made in the table above is the maximum allowed under the constraints of the relevant CE marking procedures as defined in the appropriate hEN standards and/or EAD, Tensar are confident that no deterioration in properties will occur for a period in excess of 120 years in soil conditions between pH4 and pH 9 at a temperature of 20°C and would expect no loss of in-situ performance when stored outdoors for a period of 1 year prior to installation.

Ref. IB_H-series_Durability



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