

Tensar Declaration of Performance Tensar InterAx® NX850-GD Geocomposite



- 1) Unique identification code of the product type:
InterAx® NX850-GD

- 2) Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):
Geocomposite InterAx® NX850-GD – 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 + Separation

- 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
Tensar Manufacturing Limited
Sett End Road West
Shadsworth Business Park
Blackburn
BB1 2PU
United Kingdom

Tel: **+44 (0) 1254 262431**
E-mail: sales@tensar.co.uk

- 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 – 22

- 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 22/0467 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		
Product characteristic	Unit of characteristic	Declared Value	Tolerance	
Radial Secant Stiffness at 0.5% strain	kN/m	330	-70	
Radial Secant Stiffness Ratio	-	0,60	-0,25	
Junction Efficiency	%	100	-10	
Hexagon Pitch	mm	80	±4	
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 of the geogrid component 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 – 1.1/29173/0108.0.1-2022)				
Performance Related Physical Properties of the Geotextile				
Essential characteristic		Performance		
Product characteristic	Unit of characteristic	Declared Value	Tolerance	
Static Puncture Resistance (CBR test) (EN ISO 12236)	kN	1,64	-0,14	
Dynamic Perforation Resistance (cone drop test) (EN ISO 13433)	mm	26	+5	
Characteristic Opening Size (EN ISO 12956)	µm	110	±40	
Water Permeability Normal to the Plane (velocity index) (EN ISO 11058)	Velocity Index (V _{H50}) ms ⁻¹	0,135	-0,035	
Dangerous substances (National Regulations in force in EU Member States)		Less than required by national regulations in EU Member States		
Durability Statement (Annex B)				
To be covered within 2 weeks after installation. Predicted to be durable for up to 50 years in natural soils with 4 ≤ pH ≤ 9 and soil temperatures ≤ 25°C on the basis of the results of test method B.4.2 for 56 days.				
Properties for Identification of the Product				
Product characteristic	Unit of characteristic	Declared Value	Tolerance	
Radial Secant Stiffness at 2% strain	kN/m	270	-45	
Hexagon Pitch	mm	80	±4	
Weight of the product	kg / m ²	0.515	-0,075	

European Technical Assessment 22/0467 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"

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: 31/08/2022

Signature: 

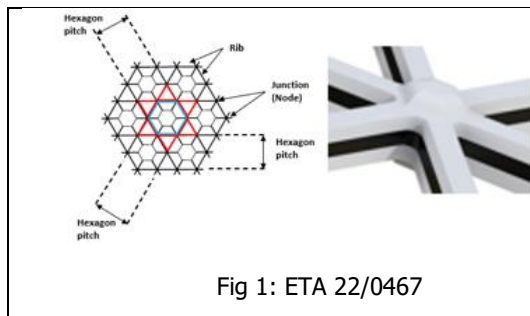


Fig 1: ETA 22/0467

The non-reinforcing hexagonal geogrid is made from co-extruded polypropylene sheet. Co-extrusion is an extrusion process in which two or more plastic materials are extruded through a single die. In this case the resulting co-extruded sheet is still >85% polypropylene. The sheet "recipe" is included in the agreed data / information on composition and manufacturing process deposited at Kiwa Nederland B.V. The co-extruded polymer sheet is then punched and oriented into a geogrid structure that consists of continuous and no-continuous ribs forming a pattern of repeating hexagons.

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 geogrid 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 of the geogrid when stored outdoors for a period of 1 year prior to installation.

Ref. IB_InterAx_Durability

Tensar is a registered trade mark



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 Settle End Road, Shadsworth Business Park
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