

# Tensar Declaration of Performance Tensar RE510 Geogrid



- 1) Unique identification code of the product type:  
**RE510**
  
- 2) Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):  
**Geogrid RE510 – Batch number is provided on the product packaging**
  
- 3) Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:  
**For use in construction of earthworks, foundations and retaining structures, reservoirs and dams, canals, solid waste disposal and liquid waste containment.**  
**Intended use: Reinforcement**
  
- 4) Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):
 

<p><b>Manufactured in Factory A</b>  <b>Tensar Manufacturing Limited</b>  <b>Sett End Road West</b>  <b>Shadsworth Business Park</b>  <b>Blackburn</b>  <b>BB1 2PU</b>  <b>United Kingdom</b>            Tel: <b>+44 (0) 1254 262431</b>            Fax: <b>+44 (0) 1254 266867</b>            E-mail: <a href="mailto:sales@tensar.co.uk">sales@tensar.co.uk</a></p>	<p><b>Manufactured in Factory B</b>  <b>Tensar Geosynthetics (China) Limited</b>  <b>289 Checheng Avenue</b>  <b>Wuhan Economics Development Zone</b>  <b>Hanyang District</b>  <b>Wuhan</b>  <b>China 430056</b>            Tel: <b>+86 27 8423 6370</b>            Fax: <b>+86 27 8423 6381</b>            E-mail: <a href="mailto:marketing@tensar.com.cn">marketing@tensar.com.cn</a></p>
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- 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 – 08
  
- 6) In case of the declaration of performance concerning a construction covered by a harmonised standard:  
**Notified certification body KIWA No – 0799 performed the initial inspection of the manufacturing plant and of factory production control and the continuous 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.

# Tensor Declaration of Performance Tensor RE510 Geogrid

7) Declared performance:

Performance Related Physical Properties of the Geogrid				Harmonised Technical Specification
Essential characteristic		Performance		
Product characteristic	Unit of characteristic	Declared Value	Tolerance	<b>EN13251:2016</b> <b>EN13254:2016</b> <b>EN13255:2016</b> <b>EN13257:2016</b> <b>EN13265:2016</b>
Tensile Strength (EN ISO 10319)	kN/m	MD – 46,2	-4,0	
Elongation at Maximum Load (EN ISO 10319)	%	MD – 11,0	±3,0	
Static Puncture (CBR test) (EN ISO 12236) <sup>a</sup>	kN	NPD	NPD	
Dynamic Perforation Resistance (cone drop test) (EN ISO 13433) <sup>a</sup>	mm	NPD	NPD	
Tensile creep (EN ISO 13431)	kN/m	Long term creep rupture strength at a design life of 120 years and 10°C in soil temperature is 20,7kN/m		
Damage During Installation (EN ISO 10722-1)	%	Retained Strength >90%	-0	
Dangerous substances (National Regulations in force in EU Member States)		Less than required by national regulations in EU Member States		
<b>Durability Statement (EN 13251, Annex B)</b>				
To be covered within 1 month after installation. Predicted to be durable for up to 100 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 112 days.				

<sup>a</sup> This test is not applicable for geogrids.

- 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: 31/01/2018

Signature:

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, Tensor are confident that no deterioration in properties will occur for a period in excess of 120 years in soil conditions between pH3 and pH 12 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\_Uniaxial\_Durability

Tensor is a registered trade mark

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