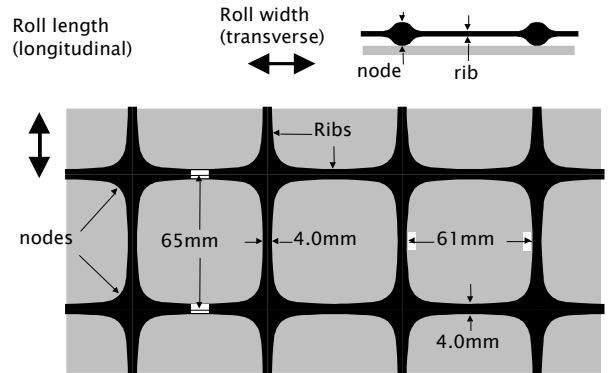


Tensar AR-GN Geocomposite Product Specification

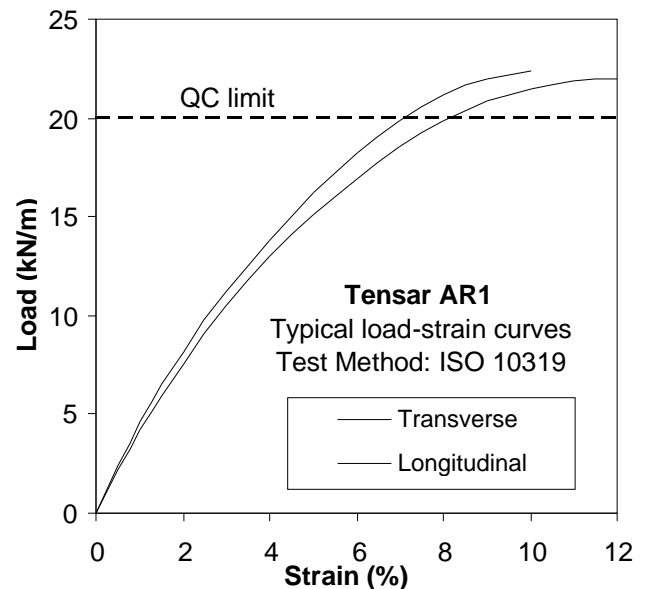
Tensar AR-GN is used for both the reinforcement of asphalt layers in the construction of new pavements and of asphalt overlays in the rehabilitation of existing pavements.

Tensar AR-GN is a composite consisting of a stiff monolithic geogrid with integral junctions (Tensar AR1) bonded to a non-woven paving fabric. Tensar AR1 is orientated in two directions such that the resulting ribs have both a high degree of molecular orientation which continues through the area of the integral node, and a rectangular cross section. The Tensar AR1 grid reinforces the asphalt layer; the paving fabric once installed and saturated with bitumen, then acts as a moisture barrier and also as a SAMI (stress absorbing membrane interlayer).

All quoted dimensions and values are typical and may vary from those indicated unless stated otherwise.



Tensar AR-GN Composite (6)		
Roll width × Roll length	m	3.8 × 75
Tensar AR1 geogrid component		
Polymer (1)		PP
QC strength (2)	kN/m	20.0
Approx peak strain	%	12.0
Junction (node) strength (3)	%	90
Minimum carbon black (4)	%	2
Unit weight	kg/m ²	0.224
Shrinkage (5)	%	≤4
Paving fabric component		
Polymer (1)		PP
Bitumen retention (6)	kg/m ²	≥1.1
Unit weight	kg/m ²	0.130



- (1) PP denotes polypropylene. Tensar AR1 geogrid is inert to all chemicals naturally found in soils and has no solvents at ambient temperature. It is not susceptible to hydrolysis and is resistant to aqueous solutions of salts, acids and alkalis and is non-biodegradable.
- (2) Determined in accordance with BS EN ISO 10319:2008 as a lower 95% confidence limit in accordance with ISO 2602:1980 (BS 2846:Part 2:1981). This applies to both the longitudinal (LD) and transverse (TD) directions.
- (3) Determined in accordance with the principle outlined in ETA Technical Report TR041, and expressed as a % of the quality control strength.
- (4) Carbon black inhibits attack by UV light. Determined in accordance with ASTM D1603-06.
- (5) Typical Value
- (6) Determined in accordance with EN 15381, Annex C.
- (7) Tensar AR-GN is manufactured in accordance with a Quality Management System which complies with the requirements of BS

The information in this document supersedes any and all prior Technical Notes for the product(s) designated above, is of an illustrative nature and supplied by Tensar International Limited free of charge for general information purposes only. Tensar reserves the right to amend product descriptions, properties and specifications at any time and without prior notice. This document does not form part of any contract or intended contract. Tensar International Limited excludes to the fullest extent lawfully permitted any and all liability whatsoever for any loss or damage howsoever arising out of the use of and reliance upon this information. It is your sole responsibility and you must assume all risk and liability for the final determination as to the suitability of any Tensar International Limited product and/or design for the use and in the manner contemplated by you in connection with a particular project.

Tensar and TriAx are registered trademarks

Copyright © Tensar International Limited 2019

Tensar International Limited
Tel: +44 (0) 1254 262431
Fax: +44 (0) 1254 266867
E-mail: sales@tensar.co.uk
www.tensar-international.com

UK Head Office
Units 2 - 4 Cunningham Court
Shadsworth Business Park
Blackburn
BB1 2QX
United Kingdom

