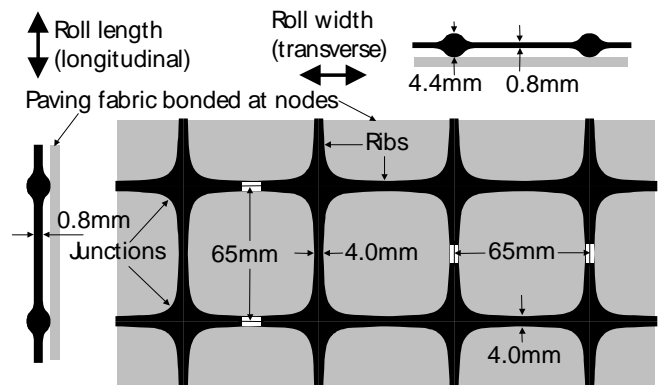


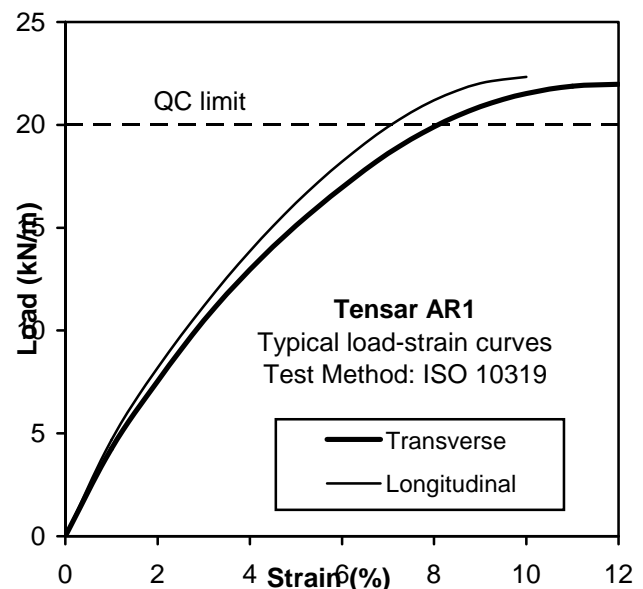
## Tensar AR-G<sub>N</sub> Geocomposite Product Specification

Tensar AR-G<sub>N</sub> 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-G<sub>N</sub> 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. Once installed and saturated with bitumen, the paving fabric then acts as a waterproofing layer and also a stress absorbing membrane interlayer (SAMI).



Tensar AR-G <sub>N</sub> Composite		
Roll width × Roll length	m	3.8 × 75
Roll weight	kg	108.5
Roll weight includes 7.5kg of core and packaging		
Tensar AR1 geogrid component		
Polymer (1)		PP
QC strength (2)	kN/m	20.0
Load at 2% strain (2)	kN/m	7.0
Approx peak strain	%	12.0
<b>Junction strength (3)</b>	%	95
Maximum shrinkage (4)	%	4.0
Minimum carbon black (5)	%	2
Unit weight	kg/m <sup>2</sup>	0.224
Paving fabric component		
Polymer (1)		PP
Tensile strength LD/TD (6)	N/m	450.0
Approx strain at failure (6)	%	50
Asphalt retention (7)	kg/m <sup>2</sup>	1.1
<b>Material thickness without load</b>	mm	1.0
<b>Unit weight (8)</b>	kg/m <sup>2</sup>	0.130



- (1) PP denotes polypropylene
- (2) Determined in accordance with BS EN ISO10319:2008 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 GRI Test Method GG2-05, and expressed as a % of the quality control strength.
- (4) Determined as free relaxation in a forced circulation hot air oven at 140°C for 30 minutes.
- (5) Carbon black inhibits attack by UV light. Determined in accordance with BS 2782:Part 4 :Method 452B:1993.
- (6) Mean value determined in accordance with ASTM D 4632.
- (7) Mean value determined in accordance with ASTM D 6140.
- (8) 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.
- (9) Tensar AR-G<sub>N</sub> is manufactured in accordance with a Quality Management System which complies with the requirements of BS EN BS EN ISO 9001:2008.
- (10) All quoted dimensions and values are typical unless stated otherwise.

Determination of the suitability of any information or material for the use contemplated or the manner of use is the sole responsibility of the user.

Tensar is a registered trade mark

### Tensar International Limited

Tel: +44 (0) 1254 262431  
Fax: +44 (0) 1254 266867  
E-mail: [sales@tensar.co.uk](mailto:sales@tensar.co.uk)  
[www.tensar-international.com](http://www.tensar-international.com)

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



Q 05288  
ISO 9001:2008



EMS 86463  
ISO 14001:2004