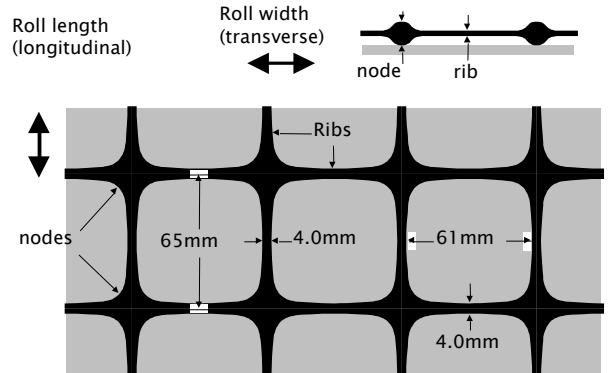


Tensor AR-GN Geocomposite Product Specification

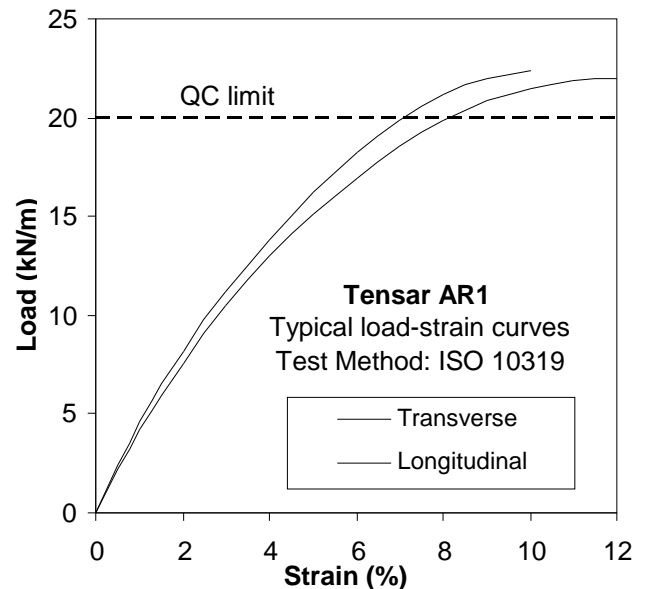
Tensor AR-GN is used for both the reinforcement of asphalt layers in the construction of new pavements and of asphalt overlays in the rehabilitation of existing pavements.

Tensor AR-GN is a composite consisting of a stiff monolithic geogrid with integral junctions (Tensor AR1) bonded to a non-woven paving fabric. Tensor 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 Tensor 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.



Tensor AR-GN Composite (6)		
Roll width × Roll length	m	3.8 × 75
Tensor 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. Tensor 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) Tensor AR-GN is manufactured in accordance with a Quality Management System which complies with the requirements of BS

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