

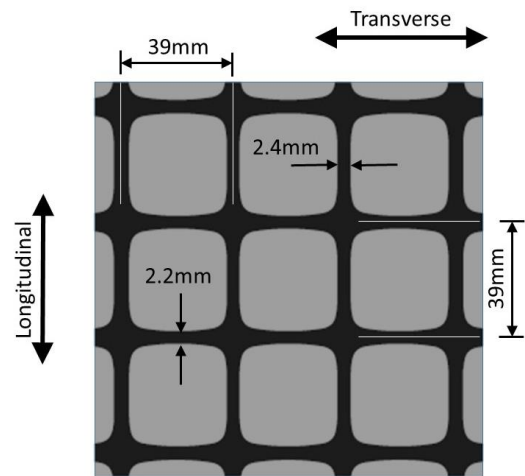
# Tensar AR-GNS Geocomposite Product Specification

Tensar AR-GNS 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-GNS is a composite consisting of a stiff monolithic Tensar geogrid with integral junctions bonded to a non-woven paving fabric. The Tensar geogrid 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 geogrid 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-GNS Composite (1)		
Roll width × Roll length	m	3.8 × 75
<b>Tensar geogrid component</b>		
Polymer (2)		PP
QC strength (3)	kN/m	20.0
Approx peak strain	%	12.0
Unit weight	kg/m <sup>2</sup>	0.23
Shrinkage (4)	%	≤4
<b>Paving fabric component</b>		
Polymer (2)		PP
Bitumen retention (5)	kg/m <sup>2</sup>	≥1.1
Unit weight	kg/m <sup>2</sup>	0.130



- (1) Tensar AR-GNS is manufactured in accordance with a Quality Management System which complies with the requirements of BS EN ISO 9001:2008.
- (2) PP denotes polypropylene. Tensar 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.
- (3) 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.
- (4) Typical value
- (5) Determined in accordance with EN 15381, Annex C.

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