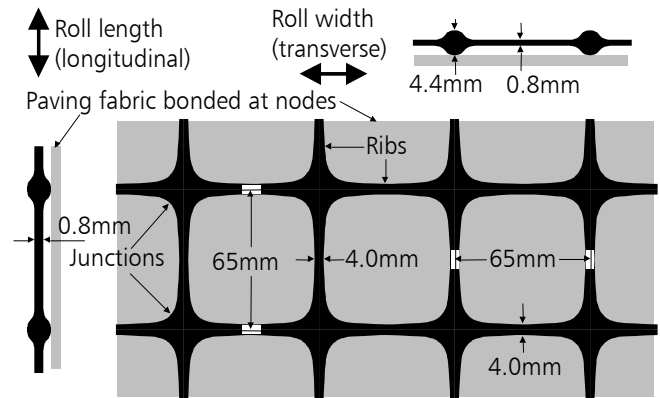


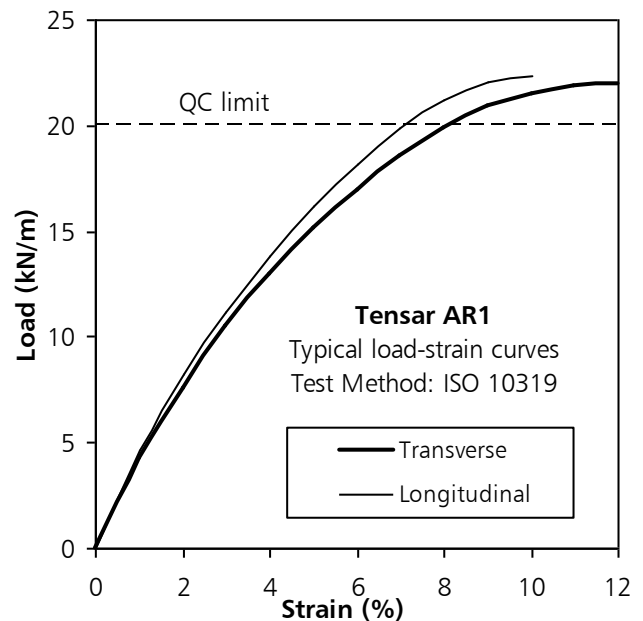
Tensar AR-G Composite product Specification

Tensar AR-G 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 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.



Tensar AR-G Composite		
Roll width × Roll length	m	3.8 × 50
Roll weight	kg	75.5
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
Junction strength (3)	%	95
Maximum shrinkage (4)	%	4.0
Minimum carbon black (5)	%	2
Unit weight	kg/m ²	0.224
Paving fabric component		
Polymer (1)		PP/PET
Tensile strength LD/TD (6)	kN/m	3.5/3.0
Max elongation LD/TD (6)	%	15/50
Maximum shrinkage LD/TD (7)	%	2/1
Material thickness without load	mm	1.0
Unit weight (8)	kg/m ²	0.135



1. PP denotes polypropylene, PET denotes polyester
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. Determined in accordance with DIN 53875.
7. Determined as free relaxation in a forced circulation hot air oven at 150°C for 3 minutes.
8. Mean value determined in accordance with BS EN ISO 9864:2005.
9. 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.
10. Tensar AR-G is manufactured in accordance with a Quality Management System which complies with the requirements of BS EN BS EN ISO 9001:2008.
11. All quoted dimensions and values are typical unless stated otherwise.

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