

Tensar AX5-GN Paving Composite Grid – Product Specification

Tensar AX5-GN is a structural paving composite grid consisting of a stiff monolithic paving grid with integral junctions bonded to a non-woven paving fabric. The paving grid is orientated in three directions such that the resulting ribs have a high degree of molecular orientation which continues through the area of the integral node and a rectangular cross section.

Area of application:

The structural paving composite grid is used for the rehabilitation and new construction of flexible, semi-flexible or rigid pavements. The product supports the pavement structure, in particular the new (rolled) asphalt overlay, in different ways.

System functions:

Reinforcement, stress-relief (SAMI-stress absorbing membrane interlayer), interlayer barrier (moisture barrier)

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

Tensar AX5-GN paving composite grid (1)		
Roll width × Roll length	m	3.8 × 50
Tensar paving grid component		
Polymer (2)		PP
QC strength (3)	kN/m	13(MD) 16(CMD)
Approx peak strain	%	11.0
Unit weight	kg/m ²	0.21
Paving fabric component		
Polymer (2)		PP
Bitumen retention (4)	kg/m ²	≥1.1
Unit weight	kg/m ²	0.130

- (1) **Tensar AX5-GN** is manufactured in accordance with a Quality Management System which complies with the requirements of BS EN ISO 9001:2015.
- (2) PP denotes polypropylene. Tensar paving grid 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 ISO 10319:2015 as a lower 95% confidence limit in accordance with ISO 2602:1980. This applies to both the longitudinal machine direction (MD) and transverse cross machine direction (CMD).
- (4) Determined in accordance with EN 15381, Annex C.

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