Tensar AX5-GN Paving Geocomposite Grid – Product Specification

Tensar AX5-GN is a structural paving geocomposite consisting of a polypropylene stiff monolithic paving grid with integral junctions bonded to a polypropylene non-woven paving fabric.
The paving hexagonal 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. Therefore performing the structural reinforcement function [R] of the asphalt interlayer.
The non-woven functions as a bonding fabric during installation. After installation, saturated with bitumen, the non-woven functions as a stress relief system [STR] and interlayer barrier [B].

Area of application:
The structural paving geocomposite 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. The main range of applications is an increasing the fatigue life of pavement and also delaying of fatigue cracking occurrence in a new asphalt overlay.

System functions:
Reinforcement [R], stress-relief [STR] (SAMI - stress absorbing membrane interlayer), interlayer barrier [B].

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

Tensar AX5-GN paving geocomposite (1)		
Roll width × Roll length	m	3.8 × 75
Tensar paving grid component		
Polymer (2)		PP
Junction efficiency (3)	%	≥90
Hexagon pitch, nominal value (3)	mm	80
Unit weight	kg/m^2	0.22
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) Both values, relevant for structural reinforcement, determined in accordance with Technical Report 041 2012, Testing procedure B.2 for determination of junction efficiency and Testing procedure B.4 for determination of hexagon pitch.
(4) Determined in accordance with EN 15381, Annex C.
(5) All values are typical unless otherwise stated.

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