



CHECKMATE ROADGRID™

Checkmate RoadGrids are specifically knitted fiber glass grids ideal for asphalt reinforcement. These grids are coated with a bituminous material which ensures proper adhesion to the asphalt layers. This bonding ensures that the reinforcing grid is in a position to accept the tensile stresses and to distribute them. The selection of this material is based upon the excellent heat resistance, minimal shrinkage at high temperatures of 200° C and optimal elastic modulus.

PROPERTIES		TEST METHOD	UNIT	RG5050	RG1010	RG2010
Ultimate Tensile Strength ⁽¹⁾	MD	ASTM D 6637	kN/m	56.8	108.3	100.0
	XD			61.6	108.3	200.0
Aperture Size	MD	Nominal	mm	25.4	25.4	25.4
	XD			25.4	25.4	25.4
Heat Resistance		Minimum	C°	≤ 200	≤ 200	≤ 200
Shrinkage Properties		CRDRG 01	%	≤ 0.5% @ 200°C after 15 minutes	≤ 0.5% @ 200°C after 15 minutes	≤ 0.5% @ 200°C after 15 minutes
Strain at Ultimate ⁽¹⁾	MD	ASTM D 6637	%	2.2	2.5	3.0
	XD			2.5	2.4	3.0
Grid Material	Fiber Glass					
Coating	Bituminous					
Melting Point		ASTM D 276	C°	>300	>300	>300
Roll Width ⁽²⁾⁽³⁾		Minimum	m	2	2	1.5
Roll Length ⁽²⁾⁽³⁾		Minimum	m	50	50	50

NOTE: (1) Mean Values (2) Minimum (3) Typical. Standard roll dimensions are shown. (4) The products may be fabricated to custom lengths and widths to meet customer needs.

CHECKMATE ROADGRID Typical Applications:

- To control the cracking of airport runways, taxiways, roads, bridges, jointed concrete carriageways and parking lots, ect.
- To increase the fatigue life of Bituminous pavements
- To control rutting of pavements subjected to high trafficking
- Construction of new highways
- Other maintenance and repair jobs of asphalt pavements

Disclaimer: Checkmate reserves the right to change these specifications without notice and at its sole discretion. The user of this specification sheet is required to obtain formal confirmation from Checkmate of the current specification of the product it intends to use.

