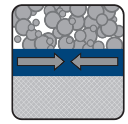
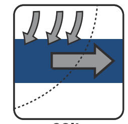
TENCATE

Mirafi®



CONFINEMENT



SOIL REINFORCEMENT

Mirafi® BXG Geogrids

for Base Course Reinforcement and Soil Stabilization Applications

TenCate develops and produces materials that deliver increased performance, reduce costs and measurable results when working with our customers to provide advanced solutions utilizing Mirafi® BXG geogrids that make a difference.

The Difference Mirafi® BXG Geogrids Make:

- Reinforcement Strength. High tensile modulus properties per ASTM D6637 for base reinforcement applications. For structures with dynamic short-term loadings, Mirafi® BXG geogrids offer high strength at low strain and are designed for maximum bearing capacity and shear resistance.
- True biaxial strengths. Mirafi® BXG geogrids are biaxial grids that exhibit high tensile strength in both longitudinal and transverse directions, making them suitable for base course reinforcement and soil stabilization applications.
- Durability. Superior damage resistance from moderate to severe stress installations.
- Soil Interaction. Superior soil confinement resulting in greater load distribution. A new combination of grid structure and polymers to create optimum soil-grid interaction.
- Roll Sizes. Available in multiple roll sizes to fit the project requirements.

APPLICATIONS

Mirafi® BXG geogrids deliver strength, long-term performance, reliability and quick installation for base reinforcement for paved roads, construction haul roads, foundation reinforcement, working platforms on weak subgrades, and secondary reinforcement for soil retaining structures.

INSTALLATION GUIDELINES*

Prepare the ground by removing stumps, boulders, etc. and fill in low spots. Unroll the Mirafi® BXG geogrids directly over the ground to be stabilized. If more than one roll width is required, overlap rolls. Place the aggregate onto previously installed geogrid.

Mirafi® BXG Geogrid

Maintain 6in (150mm) to 12in (300mm) cover between truck tires and geosynthetic. Compact the aggregate over the Mirafi® BXG geogrid to the design thickness and fill any ruts with new aggregate as specified in the project guidelines.

* These guidelines serve as a general basis for installation. Detailed instructions are available from your TenCate representative.

Protective & Outdoor Fabrics
Aerospace Composites
Armour Composites
Geosynthetics
Industrial Fabrics
Synthetic Grass

TENCATE
materials that make a difference

TenCate Mirafi®

Mirafi® BXG Geogrids

for Base Course Reinforcement and Soil Stabilization Applications

Mechanical Properties	Test Method	Units	BXG110 MD	BXG110 CD	BXG120 MD	BXG120 CD
Tensile Strength (at ultimate)[1]	ASTM D6637	lbs/ft (kN/m)	850 (12.4)	1300 (19.0)	1310 (19.2)	1970 (28.8)
Tensile Strength (at 2% strain)[1]	ASTM D6637	lbs/ft (kN/m)	280 (4.1)	450 (6.6)	410 (6.0)	620 (9.0)
Tensile Strength (at 5% strain)[1]	ASTM D6637	lbs/ft (kN/m)	580 (8.5)	920 (13.4)	810 (11.8)	1340 (19.6)

Property	Units	BXG110	BXG120
Junction Efficiency[2]	%	93	93
Flexural Stiffness[3]	mg-cm	250,000	750,000
Aperture Stability[4]	m-N/deg	0.32	0.65
Resistance to Installation Damage[5]	% SC/%SW/GP	95/93/90	95/93/90
Resistance to Long Term Degradation[6]	%	100	100
Resistance to UV Degradation[7]	%	100	100

Physical Properties	Unit	BXG110	BXG120
Grid Aperture Size (MD)	in (mm)	1.0 (25.4)	1.0 (25.4)
Grid Aperture Size (CD)	in (mm)	1.3 (33.0)	1.3 (33.0)
Roll Dimensions (width x length)	ft (m)	13 x 246 (4 x 75)	13 x 164 (4 x 50)
Roll Area	yd^2 (m^2)	355 (300)	237 (200)

[1]True resistance to elongation when initially subjected to a load determined in accordance with ASTM D6637 without deforming test materials under load before measuring such resistance or employing "secant" or "offset" tangent methods of measurement so as to overstate tensile properties.

[2]Load transfer capability expressed as a percentage of ultimate tensile strength.

[3]Resistance to bending force determined in accordance with ASTM D7748, using specimens of width two ribs wide, with transverse ribs cut flush with exterior edges of longitudinal ribs (as a "ladder"), and of length sufficiently long to enable measurement of the overhang dimension. The overall Flexural Stiffness is calculated as the square root of the product of MD and CD Flexural Stiffness values.

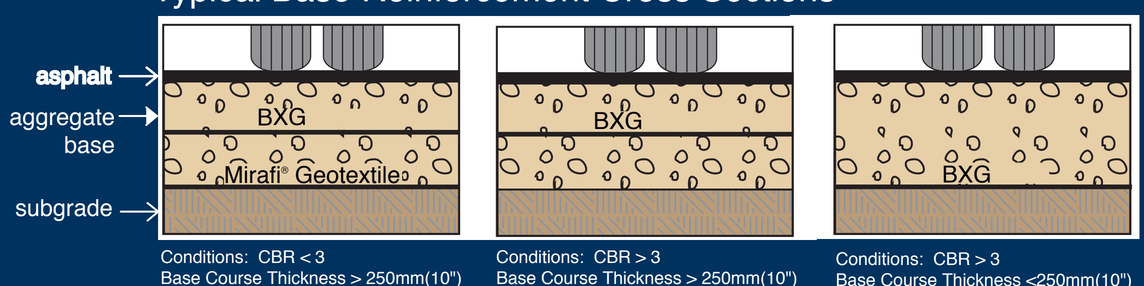
[4]Resistance to in-plane rotational movement measured by applying a 20 kg-cm (2 m-N) moment to the central junction of a 9 inch x 9 inch specimen restrained at its perimeter in accordance with GRI GG9.

[5]Resistance to loss of load capacity or structural integrity when subjected to mechanical installation stress in clayey sand (SC), well graded sand (SW), and crushed stone classified as poorly graded gravel (GP). The geogrid shall be sampled in accordance with ASTM D5818 and load capacity shall be determined in accordance with ASTM D6637.

[6]Resistance to loss of load capacity or structural integrity when subjected to chemically aggressive environments in accordance with EPA 9090 immersion testing.

[7]Resistance to loss of load capacity or structural integrity when subjected to 500 hours of ultraviolet light and aggressive weathering in accordance with ASTM D4355.

Typical Base Reinforcement Cross Sections



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