

Mirafi BXG Geogrids



Mirafi® BXG Geogrids for Base Course Reinforcement and Soil Stabilization Applications



Mirafi® BXG Geogrid

TenCate develops and produces materials that function to increase performance, reduce costs and deliver measurable results by working with our customers to provide advanced solutions.

The Difference Mirafi® BXG Geogrids Make:

- Reinforcement Strength. High tensile modulus properties per ASTM D 6637 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.
- Seams. Panels can be sewn together in the factory or field, providing cross-roll direction strength to facilitate installation.

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.

Maintain 150mm (6in) to 300mm (12in) 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 Mirafi® representative.



Protective & Outdoor Fabrics
Aerospace Composites
Armour Composites

Geosynthetics
Industrial Fabrics
Synthetic Grass



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Mechanical Properties	Test Method		BXG 11		BXG 12	
			MD	CD	MD	CD
Tensile Strength (at ultimate)	ASTM D 6637	kN/m (lbs/ft)	29.2 (2000)	29.2 (2000)	29.2 (2000)	58.4 (4000)
Tensile Strength (at 1% strain)	ASTM D 6637	kN/m (lbs/ft)	4.3 (300)	4.3 (300)	4.3 (300)	6.6 (450)
Tensile Strength (at 2% strain)	ASTM D 6637	kN/m (lbs/ft)	7.3 (500)	7.3 (500)	7.3 (500)	10.9 (750)
Tensile Strength (at 5% strain)	ASTM D 6637	kN/m (lbs/ft)	13.4 (920)	13.4 (920)	13.4 (920)	19.7 (1350)
Tensile Modulus (at 1% strain)	ASTM D 6637	kN/m (lbs/ft)	437(30000)	437 (30000)	437 (30000)	656 (45000)
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	70		70	
Aperture size (normal)		mm (inches)	25.4 (1.0)	25.4 (1.0)	25.4 (1.0)	25.4 (1.0)
Physical Properties		Units	BXG 11		BXG 12	
Roll Width		m (ft)	4 (13.1)		4 (13.1)	
Roll Length		m (ft)	50 (164)		50 (164)	
Est. Net Weight		kg (lbs)	81 (180)		103 (227)	
Roll Area		m ² (yd ²)	200 (239)		200 (239)	

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Typical Base Reinforcement Cross Sections

Conditions: CBR < 3
Base Course Thickness > 250mm(10")

Conditions: CBR > 3
Base Course Thickness > 250mm(10")

Conditions: CBR > 3
Base Course Thickness < 250mm(10")

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