





ArmaGrid® - BX<sub>PET</sub>

COATED POLYESTER BIAXIAL GEOGRIDS

Sub-grade Stabilisation

## ArmaGrid® - BX<sub>PET</sub>

ArmaGrid® –  $BX_{_{\text{PET}}}$  is a high strength and low strain biaxial knitted geogrid manufactured with high tenacity polyester yarns.

## **Applications**

• Subgrade and Subbase Stabilisation: Improvement of sub-grade and sub-base performance in roads, railways and airport runways, taxiways and aprons by incorporating the ArmaGrid® - BX<sub>PET</sub> within appropriate interlayers.

## **Technical Parameters**

Properties		Test Methods	Units	AG-BX <sub>PET</sub> 30	AG-BX <sub>PET</sub> 40	AG-BX <sub>PET</sub> 60	AG-BX <sub>PET</sub> 80	AG-BX <sub>PET</sub> 100			
Physical Properties											
Material				Polyester							
Aperture Size in MD <sup>i,iv</sup>			mm	24	24	17	20	30			
Aperture Size in CD <sup>i,iv</sup>			mm	23	21	21	20	30			
Mechanical Pro	operties										
Nominal Tensile Strength MD <sup>iv</sup>		ASTM D 6637	kN/m	30	40	60	80	100			
Nominal Tensile Strength CD <sup>iv</sup>			kN/m	30	40	60	80	100			
Partial Reduction Factor - Creep <sup>iv</sup>	±2%	ASTM D 6637		1.41	1.41	1.41	1.41	1.41			
Partial Reduction Factor - Installation Damage		ASTM D 5818	Particle size D <sub>max</sub> < 5mm (Silty Sand)	1.10	1.10	1.10	1.02	1.02			
			Particle size D <sub>max</sub> < 35mm (Gravely Sand)	1.12	1.12	1.12	1.06	1.06			
			Particle size D <sub>max</sub> < 75mm (Sandy Gravel)	1.19	1.19	1.19	1.16	1.16			
Partial Reduction Factor - Environmental Effects <sup>v</sup>			4 < pH < 9	1.11	1.11	1.11	1.11	1.11			
Standard Packa	aging"										
Roll Dimensions (width) <sup>ii</sup>			m	3.8/5.0	3.8/5.0	3.8/5.0	3.8/5.0	3.8/5.0			
Roll Dimensions (length) <sup>ii</sup>			m	100	100	100	100	100			
Roll Area <sup>iii</sup>			m²	380/500	380/500	380/500	380/500	380/500			
Weight per Roll <sup>ii</sup>			kg	104/137	98/128	130/171	231/304	245/323			

- ii. These values are indicative and subject to variations.
- iii. Other roll sizes available
- iv. MD- Machine Direction, CD- Cross Machine Direction
- v. The creep and durability reduction factor given is applicable for 20°C temperature and 114 years. Reduction factors for other temperatures are available upon request

- A. All prescribed values are minimum unless otherwise mentioned and tested in GAI-LAP accredited laboratories.
- B. Roll weights are average values including shipping cores. Actual roll weight may vary.
- C. Customized rolls with varying lengths or master rolls can be manufactured. D. The above values are subject to change as per discretion of the company.

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Local Contact:	

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