



ArmaGrid – BX_{PET}

ArmaGrid – BX_{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_{PET} within appropriate interlayers.

Technical Parameters

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

- i. Tolerance ±1mm
 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.

NOTES

- 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.

