



TERRE ARmee



Basal Reinforcement



ArmaGrid – BX_{PET}

COATED POLYESTER BIAxIAL GEOGRIDS

Sub-grade Stabilisation



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 (Gravelly 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 Packagingⁱⁱ								
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.

www.terre-armee.com

Local Contact:

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