

# TENSAR® BIAXIAL GEOGRIDS

Design and build with confidence; we empower you to achieve cost-effective, proven, engineered solutions. Fueled by an innovative spirit, our industry-leading technology solves the toughest soil stabilization, earth reinforcement, and site development challenges.

Biaxial geogrids are used in base reinforcement applications such as roads, storage yards, and parking lots. The reinforcing action lies mainly in increasing the shearing resistance within the soil by interlocking between the square ribs and the soil.

April 2023		Tensar® Biaxial Geogrids	
Rev	Test Method	BX1100 <sup>1</sup>	BX1200 <sup>1</sup>
Aperture Size <sup>2</sup>		25 mm x 33 mm 1.0 in x 1.3 in	25 mm x 33 mm 1.0 in x 1.3 in
Minimum Rib Thickness <sup>2</sup> MD/CD		0.76 mm/ 0.76 mm 0.03 in / 0.03 in	1.27 mm/ 1.27 mm 0.05 in / 0.05 in
Wide Width Tensile <sup>3</sup> MD/CD	ASTM D6637	12.4 kN/m / 19.0 kN/m 850 lb/ft /1300 lb/ft	19.2 kN/m / 28.8 kN/m 1310 lb/ft / 1970 lb/ft
Strength @ 2% Strain <sup>3</sup> MD/CD	ASTM D6637	4.1 kN/m / 6.6 kN/m 280 lb/ft /450 lb/ft	6.0 kN/m / 9.0 kN/m 410 lb/ft / 620 lb/ft
Strength @ 5% Strain <sup>3</sup> MD/CD	ASTM D6637	8.5 kN/m /13.4 kN/m 580 lb/ft /920 lb/ft	11.8 kN/m / 19.6 kN/m 810 lb/ft /1340 lb/ft
Junction Efficiency <sup>4</sup>	ASTM D7737-11	< 93 %	< 93%
Flexural Rigidity <sup>5</sup>	ASTM D7748-12	250,000 mg-cm	750,000 mg-cm
Aperture Stability <sup>6</sup>	GRI GG9	0.32 m-N/deg	0.65 m-N/deg
Resistance to UV Degradation <sup>7</sup>	ASTM D4355-05	100 %	100 %
Roll Weight Typical		79 kg	57 kg

1. Unless indicated otherwise, values shown are minimum average roll values determined in accordance with ASTM D4759-02. Brief descriptions of test procedures are given in the following notes.

2. Nominal dimensions.

3. Determined in accordance with ASTM D6637-10 Method A.

4. Load transfer capability determined in accordance with ASTM D7737-11.

5. Resistance to bending force determined in accordance with ASTM D7748/D7748M-14.

6. Resistance to in-plane rotational movement measured in accordance with ASTM D7864/D7864M-15.

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 D4355-05.

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