

Product Specification – LEgeo BX4040G Geocomposite

DISCLAIMER: L.E. Geosolutions, LLC reserves the right to change its product specifications at any time and without notice. It is the user’s responsibility to ensure that this specification is current and that the specified product is appropriate for the application being considered.

Product Type: Integrally formed biaxial geogrid bonded to needle punched geotextile
Polymer: Polypropylene geogrid, polyester geotextile
Load Transfer Mechanism: Positive mechanical interlock
Standard Roll Size: 12.5 ft x 164 ft (228 SY per roll)

Product Properties

Geogrid Index Properties	Test method	Units	MD value ¹	XMD value ¹
• Aperture dimensions	Direct measurement ²	mm (in)	33 (1.3) ³	33 (1.3) ³
• Minimum rib thickness	Direct measurement ²	mm (in)	3.0 (0.12)	1.0 (0.04)
• Tensile strength @ 2% strain	ASTM D6637M-15	kN/m (lb/ft)	14.0 (959)	14.0 (959)
• Tensile strength @ 5% strain	ASTM D6637M-15	kN/m (lb/ft)	28.0 (1,918)	28.0 (1,918)
• Ultimate tensile strength	ASTM D6637M-15	kN/m (lb/ft)	40.0 (2,740)	40.0 (2,740)
• Junction efficiency	ASTM D7737/D6637	%		95
• Flexural stiffness	ASTM D7748	mg-cm		4,800,000
• Aperture stability	GRI-GG9 ⁴	N-m/deg		0.98

Geotextile Index Properties	Test method	Units	MD value ¹	XMD value ¹
• Grab strength	ASTM D4632	kN (lbs)		0.55 (120)
• Trapezoidal tear	ASTM D4533	kN (lbs)		0.22 (50)
• CBR burst strength	ASTM D6241	kN (lbs)		1.51 (340)
• Permittivity	ASTM D4491	sec ⁻¹		1.7
• Apparent opening size	ASTM D4751	mm		0.21 ⁵
• Average mass per unit area	ASTM D5261	g/m ² (oz/SY)		164 (4.9)

Notes:

1. Unless indicated otherwise, values shown are Minimum Average Roll Values (MARV) in accordance with ASTM D4759-02.
2. Direct Caliper Measurement.
3. Nominal values.
4. Resistance to in-plane rotational movement measured by applying a 20 kg-cm moment.
5. Maximum Average Roll Value