

# QUIKGRID™ BIAXIAL COMPOSITE - GEOGRID

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.

The composite nature of the QuikGrid™ makes it easy and fast to install and effective in maintaining the separation of imported granular fill from the fines contained in typical saturated base soils.

June 2024		QuikGrid™ BiAxial Composite - Geogrid		
Material Properties	Rev	Test Method	QUIKGRID™ 30	QUIKGRID™ 40
	<b>GEOGRID</b>		<b>LBX3030<sup>1</sup></b>	<b>LBX4040<sup>1</sup></b>
	Raw Material	-	PP, Black	PP, Black
	Tensile Strength <sup>3,4</sup> , MD/TD	ASTM D6637	30 kN/m/30 kN/m	40 kN/m /40 kN/m
	Tensile Strength <sup>3,4</sup> at 2% Elongation, MD/TD	ASTM D6637	12.0 kN/m /12.0 kN/m	18.0 kN/m /18.0 kN/m
	Tensile Strength <sup>3,4</sup> at 5% Elongation, MD/TD	ASTM D6637	23.0 kN/m /23.0 kN/m	32.0 kN/m /32.0 kN/m
	Junction Efficiency <sup>(11)</sup> , MD/TD	GRI GG2	95%	>95%
	Flexural Stiffness <sup>(9)</sup>	ASTM D7748	2,000,000 mg-cm	4,800,000 mg-cm
	Minimum Rib Thickness <sup>2</sup> MD/CD	Measured	2.2 mm / 1.3 mm	2.3 mm / 1.5 mm
	Width of Rib <sup>2</sup> MD/CD	Measured	2.6 mm / 2.8 mm	3.0 mm / 3.0 mm
Aperture Size <sup>2</sup> , MD/TD	Measured	39 mm x 39 mm	39 mm x 39 mm	
Resistance to UV Degradation <sup>8</sup>	ASTM D4355	100%	100%	
<b>GEOTEXTILE</b>		<b>E150</b>		
Raw Material		Polyester		
Mass Per Unit Area <sup>2</sup>	ASTM D5261	150 g/m <sup>2</sup>		
Tensile Strength MD/TD	ASTM D5035	11 kN/m / 9.5 kN/m		
Elongation at Peak <sup>2</sup> MD/TD	ASTM D5035	50 %		
Grab Tensile Strength <sup>3,4</sup> MD/TD	ASTM D4632	740 N / 620 N		
Trapezoidal Tear Strength <sup>3,4</sup> MD/TD	ASTM D4533	300 N / 300 N		
Static Puncture Strength (CBR) <sup>3,4</sup>	ASTM D6241	1800 N		
Apparent Opening Size (AOS) <sup>3,4</sup>	ASTM D4751	0.23 mm <sup>(4)</sup>		
Water Flow Rate <sup>3</sup>		235 l/m <sup>2</sup> /Sec		
Roll Dimensions		3.95 m x 50 m		

1. Carbon black content is 2% for high UV Resistance
2. Geometric Properties are nominal values and may vary
3. Mechanical Properties are based on Manufacturer Laboratory testing @ 21 +/- 1 Degree C
4. Unless indicated otherwise, values shown are typical roll values
7. Resistance to in plane rotational movement of 20 kg-cm
8. 500 Hours of Exposure - Expressed as a percentage of Ultimate Tensile Strength
9. Using specimens 2 ribs wide with ribs transverse to specimen cut flush with the exterior edges of the ribs in the direction of the specimen
10. Layfield reserves the right to change this product specification at any time. The user is responsible to verify use/reference of the latest Product Data Sheet.
11. Load transfer capability determined in accordance with ASTM D7737-11

For up-to-date technical information, be sure to visit us online at [www.LayfieldGroup.com](http://www.LayfieldGroup.com)

## INSTALLATION

The subgrade should be cleared of all vegetation and proof rolled. However, on very soft ground or muskeg, cut vegetation flush with the ground and remove all woody bushes, shrubs and large rocks. The surface of the subgrade should be levelled, and depressions or humps greater than 15 cm (6 in) should be graded out. The biaxial geogrid shall be placed directly on the prepared subgrade. It should be rolled out flat and tight with no folds. Adjacent rolls should be overlapped as a function of subgrade strength and to allow for product continuity once backfilled. For CBR 3.0 and above, 20 cm (8 in) to 30 cm (12 in); for CBR 1.0 to 3.0, 45 cm (18 in) to 90 cm (36 in) for CBR 1.0 or lower, please contact one of our technical specialists for installation and application recommendations. Care should be taken to ensure that the overlaps are maintained during fill placement. Should a mechanical joint be required, then please consult the manufacturer for further details or refer to and follow project-specific requirements in the plans, specifications and tender documents.

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