

Biaxial Geogrids

Technical Datasheet

Lotrak® Premium Biaxial Geogrids are designed and manufactured to provide ground stabilisation and reinforcement. High strength, combined with low elongation provides effective reinforcement. The aperture design of the geogrid allows the aggregate to interlock and encourages load dispersal, particularly in applications such as paved/unpaved roads and working platforms to name a few.

Using a geogrid as part of a civil engineering or construction project results in a significant reduction to the quantity of required fill material, as Lotrak® geogrids can increase the bearing capacity of the underlying ground offering enhanced performance and cost benefits to the overall project.

Product Features

- ▶ The high strength and with low elongation of Lotrak® provides effective ground reinforcement
- ▶ The aperture design of Lotrak® geogrids enables aggregate materials to interlock and encourages load dispersal
- ▶ Lotrak® geogrids are manufactured under ISO Quality Management and the Construction Products Regulation

Benefits

- ▶ Lotrak® Geogrids are durable **for more than 100 years**
- ▶ Provides Effective Soil & Aggregate Confinement
- ▶ Excellent Mechanical Properties
- ▶ High-performance Reinforcement
- ▶ Cost Effective Design Component
- ▶ Aperture sizes to suit various granular particles



TEST	STANDARD		LOTRAK®			
Product			20/20S	30/30S	40/40S	30/30L
Tensile Strength (kN/m)	EN ISO 10319	MD	20	30	40	30
		CD	20	30	40	30
Tensile Strength at 2% strain (kN/m)	EN ISO 10319	MD	7	10.5	15	9
		CD	7	10.5	15	9
Tensile Strength at 5% strain (kN/m)	EN ISO 10319	MD	14	20	30	20
		CD	14	20	30	20
Elongation at max. load (%)	EN ISO 10319	MD	15	12	9	12
		CD	11	12	10	9
PHYSICAL ATTRIBUTES						
Grid Spacing/ Aperture (mm)	caliper		36 x 36	36 x 36	36 x 36	60x60
Rib Thickness (mm)	caliper	MD/CD	1.3/0.9	2.0/1.6	2.5/1.7	2.9/2.0
Rib Width (mm)	caliper	MD/CD	2.6/2.8	2.7/3.0	3.5/4.4	5.5/6.0
Junction Height (mm)	caliper		3.3	4.8	5.0	6.4
Carbon Black (%)	ASTN D 1603		≥2	≥2	≥2	≥2
Effect of UV Light			The polypropylene (PP) used contains a UV inhibitor			
Roll Size (m)			3.95 x 50	3.95 x 50	3.95 x 50	3.95 x 50

All products are manufactured under BS EN ISO 9001.

Notes & Declaration

Please note that the product is to be covered within 1 month of installation. Lotrak range of geogrids are predicted to be **durable for more than 100 years** in soil temperatures ≤ 25°. The Lotrak® range of geogrids are resistant to highly acid and alkaline environments on the basis of a durability assessment. In regard to dangerous substances, Don & Low Lotrak® geogrids contain less than required by national regulations in EU member states.

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