

# Biaxial Geogrids

## Technical Datasheet

Lotrak<sup>®</sup> biaxial geogrids provide excellent ground stabilisation and reinforcement for a wide variety of civil engineering and construction projects. Through the interlock mechanism, Lotrak<sup>®</sup> geogrids are specifically designed to control the movement of aggregate materials.

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<sup>®</sup> 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<sup>®</sup> provides effective ground reinforcement
- ▶ The aperture design of Lotrak<sup>®</sup> geogrids enables aggregate materials to interlock and encourages load dispersal
- ▶ Lotrak<sup>®</sup> geogrids are manufactured under ISO Quality Management and the Construction Products Regulation

### *Benefits*

- ▶ Excellent Soil & Aggregate Confinement
- ▶ High Tensile Strength
- ▶ High-performance Reinforcement
- ▶ Cost Effective Design Component



TEST	STANDARD		LOTTRAK®			
			20/20S	30/30S	40/40S	30/30L
Product			<b>20/20S</b>	<b>30/30S</b>	<b>40/40S</b>	<b>30/30L</b>
Tensile Strength (kN/m)	EN 10319	<b>MD</b>	20	30	40	30
		<b>CD</b>	20	30	40	30
Tensile Strength at 2% strain (%)	EN 10319	<b>MD</b>	7	12	15	10
		<b>CD</b>	7	12	15	9
Tensile Strength at 5% strain (%)	EN 10319	<b>MD</b>	14	22	30	21
		<b>CD</b>	14	22	30	20
Elongation at max. load (%)	EN 10319	<b>MD</b>	15	12	9	12
		<b>CD</b>	11	12	10	9
Grid Opening Size (mm)			36 x 36	36 x 36	36 x 36	60 x 60
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  $\leq 25^{\circ}$  and have a carbon black content of  $\geq 2\%$ . The Lotrak range of geogrids are resistant to highly acid and alkaline environments on the basis of a durability assessment. Due to manufacturing and transportation circumstances, please note that the widths of Lotrak geogrids have a tolerance of (+0.0/-0.1). In regard to dangerous substances, Don & Low Lotrak geogrids contain less than required by national regulations in EU member states.

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