

# Reinforcement

## Technical Datasheet

All Lotrak<sup>®</sup> reinforcing geotextiles and geogrids are designed to provide effective reinforcement to weak sub grades, absorbing stresses caused by heavy traffic.

Dependent on the specific site requirements, Lotrak<sup>®</sup> reinforcing geotextiles act as the reinforcement, separator and filtration membrane to provide all functions in one geotextile. This eliminates the need for multiple products and offers clear cost benefits.

Where there is a requirement for individual membranes, Lotrak<sup>®</sup> reinforcing geotextiles or the range of Lotrak<sup>®</sup> biaxial geogrids provide good ground stabilisation and reinforcement.

### *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*

- ▶ Superior Reinforcement
- ▶ High tensile strength
- ▶ Superior separation
- ▶ Excellent Soil & Aggregate Confinement
- ▶ Cost Effective Design Component



TEST	STANDARD		50R	70R	20/20S	30/30S	40/40S	30/30L
			Reinforcement Woven Geotextiles		Geogrids			
Tensile Strength (kN/m)	EN 10319	MD	52	74	20	30	40	30
		CD	52	72	20	30	40	30
Tensile Strength at 2% strain (%)	EN 10319	MD	-	-	7	12	15	10
		CD	-	-	7	12	15	9
Tensile Strength at 5% strain (%)	EN 10319	MD	25	55	14	22	30	21
		CD	45	60	14	22	30	20
Elongation at max. load (%)	EN 10319	MD	11	9	15	12	9	12
		CD	8	7	11	12	10	9
CBR Puncture Resistance (N)	EN ISO 12236		6000	9200	-	-	-	-
Cone Drop Penetration (mm)	EN 13433		8	6	-	-	-	-
Pore size 90% finer than (microns)	EN ISO 12956		210	240	-	-	-	-
Grid Opening Size (mm)			-	-	36 x 36	36 x 36	36 x 36	60x60
Water Permeability V <sub>H50</sub>	EN ISO 11058		0.014	0.018	-	-	-	-
Water Flow Rate (l/m <sup>2</sup> /sec)	EN ISO 11058		14	18	-	-	-	-
Effect of UV Light	<b>The polypropylene (PP) used contains a UV inhibitor</b>							
Roll Size (m)			5.0 x 100	5.0 x 100	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 products 20/20S, 30/30S, 40/40S & 30/30L are 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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