

# 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		25R	50R	70R	20/20S	30/30S	40/40S	30/30L
Tensile Strength (kN/m)	EN 10319	<b>MD</b>	26	52	74	20	30	40	30
		<b>CD</b>	26	52	72	20	30	40	30
Tensile Strength at 2% strain (%)	EN 10319	<b>MD</b>	-	-	-	7	10	14	10
		<b>CD</b>	-	-	-	8	10	14	9
Tensile Strength at 5% strain (%)	EN 10319	<b>MD</b>	16	25	55	15	21	25	21
		<b>CD</b>	16	45	55	17	23	29	20
Elongation at max. load (%)	EN 10319	<b>MD</b>	9	11	9	12	12	10	10
		<b>CD</b>	9	8	7	9	9	9	9
CBR Puncture Resistance (N)	EN ISO 12236		3200	6000	9200	-	-	-	-
Cone Drop Penetration (mm)	EN 918		12	8	6	-	-	-	-
Pore size 90% finer than (microns)	EN ISO 12956		270	210	240	-	-	-	-
Grid Opening Size (mm)			-	-	-	40x40	40x40	40x40	60x60
Water Permeability (x 10 <sup>-3</sup> ) (m/sec)	EN ISO 11058		10	14	18	-	-	-	-
Effect of UV Light	<b>The polypropylene (PP) used contains a UV inhibitor</b>								
Roll Size (m)	<b>Width</b>		5.0	5.0	5.0	3.95	3.95	3.95	3.95
	<b>Length</b>		100	100	100	50	50	50	50



### All products are manufactured under BS EN ISO 9001.

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