

# Separation

## Technical Datasheet

Lotrak<sup>®</sup> separation geotextiles are used between the sub grade and sub base. This prevents intermixing of expensive stone and other aggregates within the soil, while providing good ground stabilisation.

Designed to control particle movement of the soil, Lotrak<sup>®</sup> separators, prevent clogging while maintaining water flow by creating a bridging zone to promote natural soil filtration. The main purpose of all Lotrak<sup>®</sup> separation geotextiles is to prevent the loss of construction gravel and aggregates into the underlying soil and/or subgrade.

### *Product Features*

- ▶ Prevents the loss of construction aggregates into the underlying soil
- ▶ Demonstrates high tensile strength and CBR properties to offer an element of protection
- ▶ As a lightweight separator, Lotrak can help reduce the carbon footprint of a project, making it an efficient and cost effective solution

### *Benefits*

- ▶ Proven separator performance
- ▶ Superior strength and resistance
- ▶ High mechanical strength
- ▶ Good puncture resistance
- ▶ Reduced stone requirements



TEST	STANDARD		BASE	2300	2800	80	100	140	160	200	300
			Woven Geotextiles			Needlepunch Non-Woven Geotextiles					
Tensile Strength (kN/m)	EN ISO 10319	<b>MD</b>	10	21	22	6	8	12	14	18	25
		<b>CD</b>	9	17	21	6	8	12	14	18	25
Elongation at max. load (%)	EN ISO 10319	<b>MD</b>	13	22	22	36	39	41	41	50	65
		<b>CD</b>	15	18	14	42	48	55	55	50	65
CBR Puncture Resistance (N)	EN ISO 12236		1500	2600	2800	1050	1500	2000	2595	2900	4300
Cone Drop Penetration (mm)	EN ISO 13433		18	11	10	48	36	26	23	18	13
Pore size 90% finer than (microns)	EN ISO 12956		250	180	270	128	100	90	80	70	70
Water Permeability $V_{I_{H50}}$	EN ISO 11058		0.010	0.022	0.020	0.144	0.130	1.110	0.090	0.080	0.065
Water Flow Rate (l/m <sup>2</sup> /sec)	EN ISO 11058		10	22	20	144	130	110	90	80	65
Effect of UV Light	<b>The polypropylene (PP) used contains a UV inhibitor</b>										
<b>Roll Sizes (m)</b>			4.5x100	4.5x100	4.5x100	4.5x100	4.5x100 2.25x50 2.25x25	4.5x100	4.5x100	4.5x100	4.5x100 2x100 2x50
Handy Pack size (m)			4.5x10				4.5x10				

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

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