

## Filtration & Drainage

### Technical Datasheet

Lotrak<sup>®</sup> filtration geotextiles are designed to provide rapid filtration, allowing water to pass into a filter drain without the carriage of fine soil particles.

The opening size of the geotextile is small enough to control soil particle movement but is large enough to avoid clogging. As a result, water flow is maintained by the creation of a bridging zone to promote natural soil filtration.

#### *Product Features*

- ▶ Provides rapid filtration for a wide range of applications, including drains and trenches
- ▶ Prevents the loss of construction aggregates into the underlying soil
- ▶ Offers high tensile strength and CBR properties to offer an element of protection in addition to the standard requirements of separation and filtration

#### *Benefits*

- ▶ Proven separator performance
- ▶ Excellent filtration capabilities
- ▶ Superior strength and resistance
- ▶ Increased mechanical strength
- ▶ Optimum drainage capabilities



| TEST                                    | STANDARD  | LOTTRAK <sup>®</sup> |       |       |       |        |    |
|---|---|----------------------|-------|-------|-------|--------|----|
|   |   | 80                   | 100   | 160   | 200   | 300    |    |
| Product                                 |   |                      |       |       |       |        |    |
| Tensile Strength (kN/m)                 | EN 10319  | MD                   | 6     | 8     | 14    | 18     | 25 |
|   |   | CD                   | 6     | 8     | 14    | 18     | 25 |
| Elongation at max. load (%)             | EN 10319  | MD                   | 36    | 45    | 50    | 50     | 65 |
|   |   | CD                   | 42    | 45    | 50    | 50     | 65 |
| CBR Puncture Resistance (N)             | EN ISO 12236  | 1050                 | 1500  | 2300  | 2900  | 4300   |    |
| Cone Drop Penetration (mm)              | EN 918  | 48                   | 36    | 23    | 18    | 13     |    |
| Pore size 90% finer than (microns)      | EN ISO 12956  | 128                  | 100   | 80    | 70    | 70     |    |
| Water Permeability V <sub>H50</sub>     | EN ISO 11058  | 0.144                | 0.130 | 0.090 | 0.080 | 0.065  |    |
| Water Flow Rate (l/m <sup>2</sup> /sec) | EN ISO 11058  | 144                  | 130   | 90    | 80    | 65     |    |
| Effect of UV Light                      | The polypropylene (PP) used contains a UV inhibitor |                      |       |       |       |        |    |
| Roll Size (m)                           | Width   | 4.5                  | 4.5   | 4.5   | 4.5   | 4.5    |    |
|   | Length  | 100                  | 100   | 100   | 100   | 50/100 |    |



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

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