

Reinforcement

Technical Datasheet

All Lotrak[®] 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[®] 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[®] reinforcing geotextiles or the range of Lotrak[®] biaxial geogrids provide good ground stabilisation and reinforcement.

Features

- ▶ The high strength and with low elongation of Lotrak[®] provides effective ground reinforcement
- ▶ The aperture design of Lotrak[®] geogrids enables aggregate materials to interlock and encourages load dispersal
- ▶ Lotrak[®] 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 |
|---|--|---------------|---------------------------------|-------|-------|----------|--------|--------|--------|
| | | | Reinforcement Woven Geotextiles | | | Geogrids | | | |
| Tensile Strength (kN/m) | EN 10319 | MD | 26 | 52 | 74 | 20 | 30 | 40 | 30 |
| | | CD | 26 | 52 | 72 | 20 | 30 | 40 | 30 |
| Tensile Strength at 2% strain (%) | EN 10319 | MD | - | - | - | 7 | 10 | 14 | 10 |
| | | CD | - | - | - | 8 | 10 | 14 | 9 |
| Tensile Strength at 5% strain (%) | EN 10319 | MD | 16 | 25 | 55 | 15 | 21 | 25 | 21 |
| | | CD | 16 | 45 | 55 | 17 | 23 | 29 | 20 |
| Elongation at max. load (%) | EN 10319 | MD | 9 | 11 | 9 | 12 | 12 | 10 | 10 |
| | | CD | 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 V_{H50} | EN ISO 11058 | | 0.010 | 0.014 | 0.018 | - | - | - | - |
| Water Flow Rate (l/m ² /sec) | EN ISO 11058 | | 10 | 14 | 18 | - | - | - | - |
| Effect of UV Light | The polypropylene (PP) used contains a UV inhibitor | | | | | | | | |
| Roll Size (m) | | Width | 5.0 | 5.0 | 5.0 | 4 | 4 | 4 | 4 |
| | | Length | 100 | 100 | 100 | 50 | 50 | 50 | 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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