

ENKA[®]-TEX NONWOVENS

NEEDLE-PUNCHED GEOTEXTILE FOR PROTECTION,
SEPARATION AND FILTRATION



Enka-Tex nonwovens are needle-punched and thermally bonded geotextiles that offer the highest levels of engineering performance and quality standards. The range incorporates products with superior puncture resistance compared with other needle punched nonwoven products of comparable weight. Enka-Tex nonwovens are used in various applications including site access roads, hard standings, road and railways, drainage blankets, car parks, landfills and coastal engineering.

Enka-Tex nonwoven geotextiles lend valuable qualities to numerous groundwork construction applications. In railtrack maintenance for example, Enka-Tex minimises potential track failure which can be caused by pumping (ie the upward movement of fines from the underlying formation into the ballast).

The hydraulic properties of Enka-Tex nonwovens stimulate the build-up of a natural soil filter in the adjoining soil to ensure long term filtration stability.

The superior products within the range are the perfect choice for the protection of impermeable membranes in landfill and reservoir construction, as well as for coastal protection from erosion below rock and concrete defences.

Functions

- Separation
- Filtration
- Protection
- Erosion control
- Capillary layer



Application areas

- Roadways
- Site access roads
- Railways
- French drains
- Car parks
- Industrial units
- Landfills
- Reservoir and coastal engineering
- Granular drainage blankets
- Pipelines
- Groundworks
- Green roofs

Features and benefits

- Thermal and mechanical bonding process ensures superior performance at lower weight
- Enables water flow normal to the plane which is usually several times greater than required by the design
- A range of consistent aperture sizes to accommodate different soils ranging from clay to coarse granular fill
- Excellent durability, mechanical robustness, and hydraulic properties even in extreme site conditions
- High elongation
- Resistance to acids and alkalis at ambient temperatures
- High biological resistance
- Significantly reduced carbon footprint compared to traditional methods
- Significant cost saving compared to traditional methods

Technical details

Enkatex nonwovens are a range of polypropylene needle punched and thermally bonded nonwoven staple fibre geotextiles.

- CBR puncture strengths from 1 to 18 kN
- Available in weights of 100 to 1,200 g/m² (higher with some special types)
- Standard width white nonwovens: 5.25 m; standard widths black nonwovens: 5.0 and 5.5 m
- Non-standard smaller or larger widths up to 6.5 m are available to order
- Uniform tensile strengths in all directions throughout the length and width of every roll up to 80 kN per metre width (higher with some special types)

Some special types of Enka-Tex nonwovens are available, such as a product up to 12 mm thick with excellent puncture and abrasion resistance, which is used as a thick cushioning layer in drainage and protection applications

Technical data sheets with full details are available. Contact us for more details.

Quality

The Quality Management Systems of Low & Bonar facilities have been approved to the ISO 9001 Quality Management System Standard. Certificates are available on request.

Disclaimer

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