



ENKA[®] SOLUTIONS

PRODUCT COLLECTION

High Performance Geosynthetics



Enka® Solutions

High performance geosynthetics

The Enka Solutions range of high performance geosynthetics offers multiple solutions for civil engineering and building projects. Thanks to its extensive portfolio of readily available products, Enka Solutions efficiently answers challenges in the fields of erosion control, drainage, soil reinforcement, consolidation and separation and more. Our experienced product specialists throughout the world will quickly understand the needs of your projects and can advise on the best solutions.

Enka Solutions geosynthetics are backed by extensive testing and appropriate certifications. All of our products are easy to install.

Enkadrain®

Consistent and excellent long-term performance is a key feature of the Enkadrain drainage mat. Each variant has a drainage core bonded to a synthetic nonwoven geotextile layer or is sandwiched between two such layers. Enkadrain provides solutions

for groundwater issues for civil engineering and building projects, both during construction and in service. With an extensive portfolio of product types, Enkadrain is suitable for many different applications.

Main application areas

- Landfills
- Road and rail
- Tunnels
- Embankments
- Basement walls
- Lost shuttering
- Reduction of vibration
- Multi-purpose roofs

Enkagrid®

The Enkagrid product range comprises a large portfolio of rigid and flexible geogrids, their common values being the optimum soil-grid interaction delivered for each application in any soil type and their outstanding mechanical long-term durability.

Enkagrid types are uni-axial or bi-axial, manufactured from either laser welded strips or woven coated yarns. When soil reinforcement or stabilization is required, our wide choice of readily available products will meet individual project needs.

Main application areas

- Retaining walls
- Steep slopes
- Foundations
- Landfills
- Sub-base stabilization
- Embankments
- Piled embankments
- Block walls

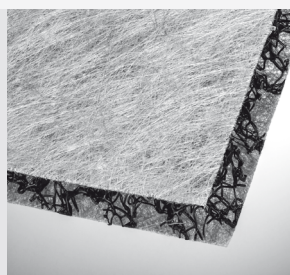
Enkagrid® PLUS

Enkagrid PLUS is a high performance knitted geocomposite for reinforcement of asphalt and soil. Manufactured from high tenacity yarns and a nonwoven geotextile, this geogrid increases the tensile strength of asphalt layers and reduces the formation of cracks. Enkagrid PLUS

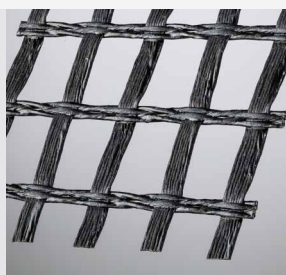
also provides an excellent solution for soil reinforcement, combining reinforcement, separation and filtration in one product. Both solutions contribute to a significantly longer service life of asphalt layers and road and railway foundations.

Main application areas

- New roads and railways
- Extension and widening of roads
- Asphalt sections exposed to high stress
- Repair of asphalt sections
- Foundations



Enkadrain®



Enkagrid®



Enkagrid® PLUS



Enkamats®

Enkamat®

Enkamat is a flexible three-dimensional mat for immediate, permanent erosion protection on many different slope types. Its unique structure creates an artificial root structure that prevents soil erosion from steep slopes, river banks, landfill containments and other

vulnerable areas. Enkamat has excellent soil retention, providing the perfect conditions for vegetative root systems to develop. Embedded with soil, it forms an integrated and fully vegetated system to control erosion.

Main application areas

- Slopes
- Road and rail
- Riverbanks
- Steep and/or rocky slopes
- Grip layer on soil covered geomembranes

Enka®-Tex

Enka-Tex is Enka-Solutions' complete range of nonwoven and woven geotextiles. The nonwoven geotextiles are needle punched and can be thermally bonded. The Enka-Tex product range is extensive, each type having specific

properties of tensile strength, weight or flow capacity. Enka-Tex is ideal for projects where erosion control, filtration, protection, drainage, stress relief, reinforcement or separation are called for.

Main application areas

- Road and rail
- Landfills
- Tunneling
- Riverbank protection
- Pipeline protection
- Retaining walls

Armater®

Armater is a versatile, dependable and well-proven geocell that delivers effective erosion control. Designed primarily for stabilizing thick layers of soil on slopes, it has a unique honeycomb structure made from

a highly permeable and strong geotextile that is easy to install and secure. It ensures the stability of the top layer and prevents surface slippage. It immediately minimizes erosion and controls rainwater runoff.

Main application areas

- Steep and/or rocky slopes
- Gravel berms

Colbondrain®

When the sub-grade of a construction site is too weak to bear normal construction activity, Colbondrain will speed up consolidation considerably. Colbondrain is a tough and durable prefabricated vertical drain (PVD),

designed to extract pore water from soils to achieve 90% consolidation within six months. Thanks to its high performance Colbondrain is often the chosen PVD for major, technically demanding projects.

Main application areas

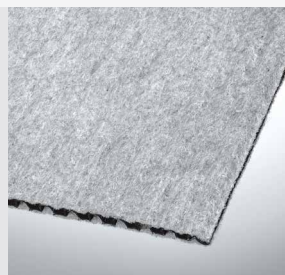
- Soil consolidation



Enka®-Tex



Armater®



Colbondrain®



The Enka Solutions product range is manufactured by Low & Bonar who is a global leader in high performance materials selling in more than 60 countries worldwide and manufacturing in Europe, North America and China. Low & Bonar designs and manufactures components which add value to, and improve the performance of, its customers' products by engineering a wide range of polymers using in-house manufacturing technologies to

create yarn, fibres, geosynthetics, industrial and coated fabrics and composite materials. These materials contribute to a more sustainable world and higher quality of life. Low & Bonar is listed on the London Stock Exchange.

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

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