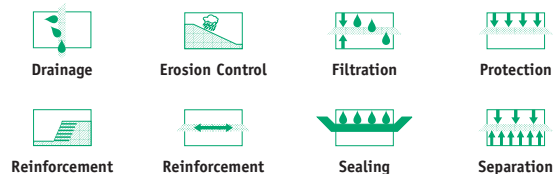
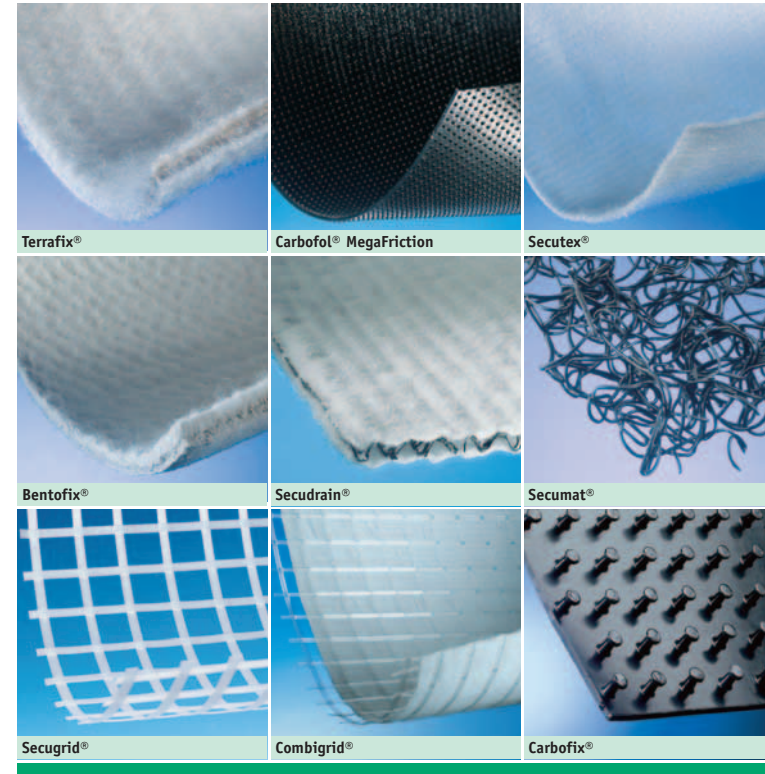


Products	Main functions	Main applications
Terrafix® 609 Terrafix® 813 Terrafix® B 813		Hydraulic engineering
Secutex® 151 GRK 3 C Secutex® 401 GRK 5 C Secutex® R 404 Secutex® R 1204		Civil engineering Landfill engineering Tunnelling Groundwater protection
Secumat® ES 601 G4		Civil engineering Landfill engineering
Secudrain® 201 WD 601 201 Secudrain® 131 C WD 401 131 C		Civil engineering Landfill engineering Tunnelling
Bentofix® BFG 5000 Bentofix® NSP 4900		Civil engineering Landfill engineering Hydraulic engineering Groundwater protection
Carbofol® MegaFriction Carbofol® smooth/smooth		Civil engineering Landfill engineering Hydraulic engineering Groundwater protection
Carbofol® PE tunnel liner		Tunnelling
Secugrid® R6 Secugrid® Q1		Civil engineering Landfill engineering Hydraulic engineering
Combigrid® 30/30 Q1 151 GRK 3		Civil engineering Landfill engineering Hydraulic engineering



NAUE - always moving

- 1967 — Terrafix® nonwoven from E.A.H. Naue KG installed for the first time in a hydraulic engineering application
- 1968 — Development of the Carbofol® geomembrane by Niederberg Chemie
- 1984 — Naue Fasertechnik GmbH & Co. KG is founded
- 1985 — Depotex® HDPE nonwoven is developed for landfill applications
- 1987 — The needle-punched Geosynthetic Clay Liner Bentofix® is invented and patented
- 1989 — Secudrain® and Secumat® production lines are purchased from Oltmanns GmbH
- 1992 — The Bentofix® joint venture in Canada is founded
- 1993 — The installation company for Bentofix® in America Naue Sealing GmbH & Co. KG is founded
- 1994 — Naue Fasertechnik GmbH & Co. KG is certified to ISO 9001
- 1995 — The Bentofix® joint venture in Australia is founded for the production of Bentofix® (Sealing Company for Tunnels and Structures) (production lines for Carbofol® and Carbofix®)
- 1996 — BBG, a consulting company for geosynthetic advice is founded
- 1998 — Completion of the geosynthetic range with Secugrid® and Combigrid® geogrids and Carbofix® concrete liners
- 1999 — Production of the worldwide largest flat extruded (9.40 m) HDPE Carbofol® geomembrane
- 2000 — An improved Combigrid® production process firmly bonds Secutex® nonwovens between Secugrid® bars
- 2003 — The joint venture Anchor Lining Systems is founded for the production and sales of Carbofix® outside of Europe
- 2003 — Secudrain® production in South Africa is founded over the entire surface for higher drainage capacities is set up
- 2004 — The new NAUE headquarter
- 2005 — Extension of the Secugrid® capacity with the third production line.
- 2006 —



Geotechnics with Geosynthetics

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Terrafix® ...



Terrafix® is a needle-punched staple fibre nonwoven geotextile manufactured from synthetic fibres. Its three-dimensional fibre structure creates labyrinth-like pore openings closely simulating the soil structure and its hydraulic properties. Terrafix® is

a versatile material used for a wide range of functions: single or multi-layered geotextile filters, sand ballast mats, sand containers or tubes and scour protection. ■

Bentofix® ...



Bentofix® geosynthetic clay liners (GCL) are needle-punched composites combining two geotextile outer layers and high swelling sodium bentonite to form a hydraulic barrier against liquids and gases with high long-term shear strength. Bentofix®

applications are: landfill caps, covers and base liners, impoundment liners, secondary containment, dams, canals, tailings containment, vertical barriers, waterproofing. ■

Secugrid® ...



Secugrid® geogrids are flat geogrids made from interlaced extruded high strength, monolithic polymer bars with welded junctions. Secugrid® provides soil reinforcement for base courses in railways and roads, steep sided soil embankments, retaining walls, foundation reinforcement load transfer of overlying soils, spanning voids, sink holes, sludge lagoon closures and in veneers. ■

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Carbofol® ...



Carbofol® geomembranes are manufactured using high density polyethylene (HDPE). Carbofol® is produced up to 9.40 width, in various thicknesses and with either smooth or textured surfaces (for steeper slopes). The product is suitable for sealing

landfill caps and base liners, secondary containment, potable water and non-toxic containment applications such as water conveyance structures, canals or ponds. ■

Secudrain® ...



Secudrain® is a three-dimensional extruded polypropylene drainage product manufactured of wave structured monofilament 3D mesh with high compressive stability. Attached needle-punched Secutex® nonwoven geotextiles fulfil the filter requirements. Secudrain® is used to drain water or gas in applications such as landfill engineering, drainage over buried structures, in construction of buildings and tunnels. ■

■

Combigrid® ...



Combigrid® is a composite geogrid produced from the Secugrid® Q or R product series with a firmly bonded Secutex® nonwoven geotextile providing reinforcement along with separation, drainage, and/or filter functions. The areas of applications are: reinforcement of base courses, foundations, access roads, pipeline trenches and other road construction applications with very low CBR and/or wet soils. ■

■

Secutex® ...



Secutex® is a needle-punched staple fibre nonwoven geotextile for separation, filtration, protection and drainage. It is manufactured from synthetic fibres for long-term stability. Secutex® geotextiles are used in many fields of civil engineering

including hydraulic engineering, landfill engineering, road construction and tunnel construction. ■

Secumat® ...



Secumat® is a three-dimensional erosion control mat consisting of a UV-stabilised labyrinth-like extruded monofilament three-dimensional core. Secumat® controls surface erosion and helps to anchor the root zone of plants. Secumat® is used for slope and

ground protection in road building, landscaping, landfill engineering works, on flood plains and embankments. ■

Carbofix® ...



Carbofix® is a protection liner system manufactured from High Density Polyethylene (HDPE) for sealing of concrete structures against aggressive chemical attack. Carbofix® is extensively used in the chemical, pharmaceutical and metal processing industries, and for the lining of industrial and municipal sewers, sewage treatment plants and leachate retention basins. ■

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