

Multifunctional
composite product
for reinforcement,
separation and
filtration



Combigrigrid®



Combigrid®...

is a flat composite geogrid from the Secugrid® Q or R product series. It has firmly welded junctions and a centrally integrated Secutex® nonwoven component for reinforcing, separating and filter applications.

...is multifunctional

Combigrid® combines all the requirements of a variety of properties in one single product. For this reason, the main area of use for Combigrid® is on weak subsoils where, in addition to reinforcement, filter and separating properties are required. As a rule, this means subsoils with a CBR value of less than 3%. Thus, the areas of application for Combigrid® are to be found in the reinforcement of base courses, foundations, access roads, pipeline trenches and throughout the road building sector. The range of products available incorporates different degrees of tensile strength and nonwoven components and covers a variety of applications. Combigrid® is thus an all-purpose product for universal applications.

...is safe

It is available in polypropylene (PP) or in polyester (PET), depending on project requirements. It is suitable for the use in all natural environments. Combigrid® geogrids are superior soil reinforcement elements because they resist service tensile force loading with very low elongation. This results in an immediate force connection and interlocking with the fill soil without primary deformation. The monolithic flat polymer bars used to make Combigrid® are extremely robust and have excellent chemical resistance, as well as an extremely good weather resistance as shown in the Global UV test. The Secutex® separating, nonwoven geotextile which is firmly integrated be-



Combigrid® in action beneath the base course of the bus terminal in Melle-Wellingholzhausen, Germany



Geobarrier® flood protection by elevating a container park with Combigrid® in Rheinau Harbour, Cologne, Germany



Installation of Combigrid® as stabilisation on the Cremlingen B1 bypass, Germany



Combigrid® in use under the railway line at Hagenow, Germany



Cutting Combigrid® to size using commercially available tools



tween the reinforcing bars features efficient long-term filter stability and high robustness, reasons why Combigrid® geogrids have been approved by the Federal Railway Office for use in earthworks for railway constructions. An excellent example of two single high-quality components combined in one product - Combigrid®.

...is economical

Combigrid® is extremely quick and easy to install, thus reducing installation costs considerably. System solutions using Combigrid® can reduce the thickness of the base course of roads and often avoid the necessity to replace weak subsoils thus conserving resources and economizing costs. For the reinforcement of the bearing layer, a calculation disk can be requested to determine the right Combigrid®/Secugrid® type.

...is simple

Combigrid® can be installed during virtually all weather conditions without heavy equipment or special construction techniques. Panels are joined and continuity is assured with simple overlaps. Standard cutting tools can be used for on-site trimming, and for steep slopes various geometrical shapes can be formed where necessary.

Conclusion:

Combigrid® is an all-purpose composite product suitable for use in a variety of reinforcement, separation and filtration applications. Combigrid® is extremely robust, resistant and durable allowing a cost-efficient alternative to other construction methods in all sectors of civil and environmental engineering. Combigrid® provides the user with a technically sophisticated product to fulfil the requirements in even the most unusual projects.

