

Base Reinforcement – simplified by HUESKER



ChallengeBase Reinforcement





SolutionGeosynthetics





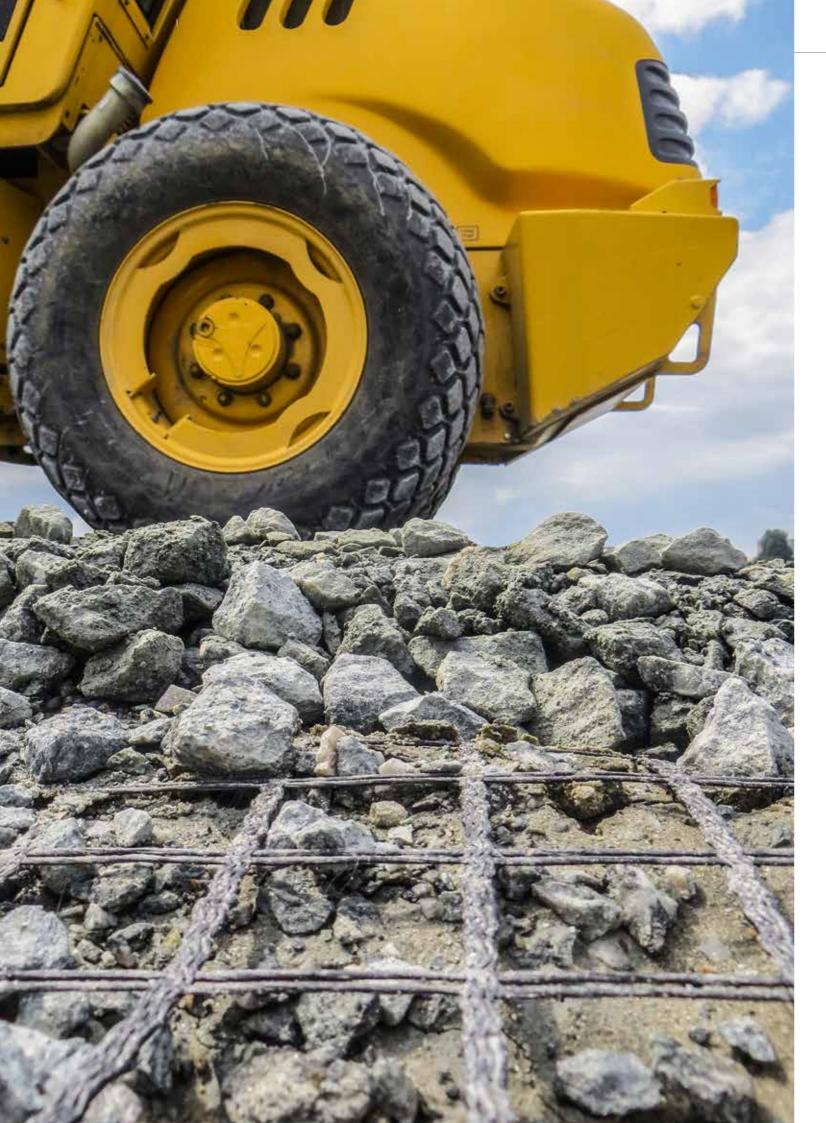
Ground stabilisation measures are needed wherever soils with inadequate bearing capacity are required to carry temporary or permanent vehicular loads. Fluctuations in the intensity of loads on soils of varying softness place a variety of demands on base courses. Yet, all applications have the same purpose:

- Increased bearing capacity
- Improved trafficability
- Prevention of loss of base course material

Geosynthetics represent a tried-and-tested solution for base course stabilisation. Quite apart from their extremely high resistance to mechanical loads, they offer a number of key benefits, particularly in terms of cost-effectiveness and eco-efficiency. They ensure:

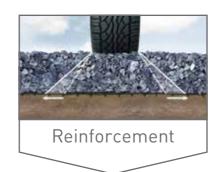
- Improved trafficability
- Increased bearing capacity
- Separation of base course material and subgrade
- Reduction in necessary base course thickness
- Maximisation of service life
- Reduced rutting
- Lower maintenance costs
- Bridging of inhomogeneities and evening out of settlement



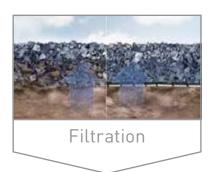


Function and Action of Geosynthetics

Geosynthetics perform a key function in the base course by increasing bearing capacity and improving trafficability.







Membrane effect

Separation of base course and subgrade

Avoidance of fine particl infiltration

Load spreading

No loss of base course material into soft subsoi

Pressure-free water drainage

Enhanced resistance to bearing/soil shear failure

Dynamic filtration stability

New: **Basetrac**

One brand, a host of solutions

Basetrac is the new HUESKER brand for base course stabilisation.

Through Basetrac, HUESKER has restructured its base course product portfolio and simultaneously unveiled a new base course concept – one founded on a simple scheme of requirements and solutions.

This allows prompt and straightforward identification of the most suitable products for all applications and all types of ground condition. Basetrac offers you the best cost-benefit ratio and simplifies the process of product selection and pricing, thereby vastly reducing effort even at the tendering phase. Yet, also during construction, Basetrac offers numerous features to make your work easier. Basetrac delivers tailored solutions to meet all requirements.



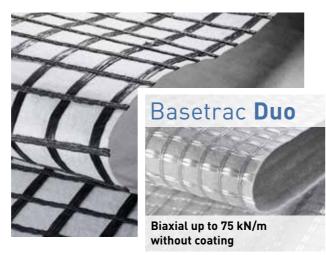
The **Basetrac**Product Line

With its four product types, Basetrac offers a one-stop solution for the most common base course requirements, thereby combining reliable performance with high costeffectiveness.

Basetrac **Grid**



Basetrac Duo-C



Product type	Woven geogrid	Prod
Material	PP, PET, PVA	Mate
Standard tensile strength	Biaxial up to 80 kN/m	Stand
Function	Reinforcement	Func
Coating	Polymer	Coati

Product type

Material

PP, PET, PVA

Standard tensile strength

Biaxial up to 65 kN/m

Function

Reinforcement, separation, filtration

Coating

Polymer

Basetrac Woven



Basetrac **Nonwoven**



Product type	PP woven
Material	PP
Standard tensile strength	Biaxial up to 60 kN/m
Function	Reinforcement, separation, filtration
Coating	-

Product type	Geotextile nonwoven
Material	PP, blended fibre
Standard tensile strength	-
Function	Separation, filtration
Coating	-

Simply Choose the **Best Solution**

Basetrac base course concept

Basetrac not only offers the most cost-effective solution.

The new Basetrac base course concept also provides you with a simple means of selecting products for all normal-duty applications. This concept is further elaborated through the purpose-developed BaseCalculator software, which – after only a few clicks – singles out the best product for any application with due regard to all the relevant factors.

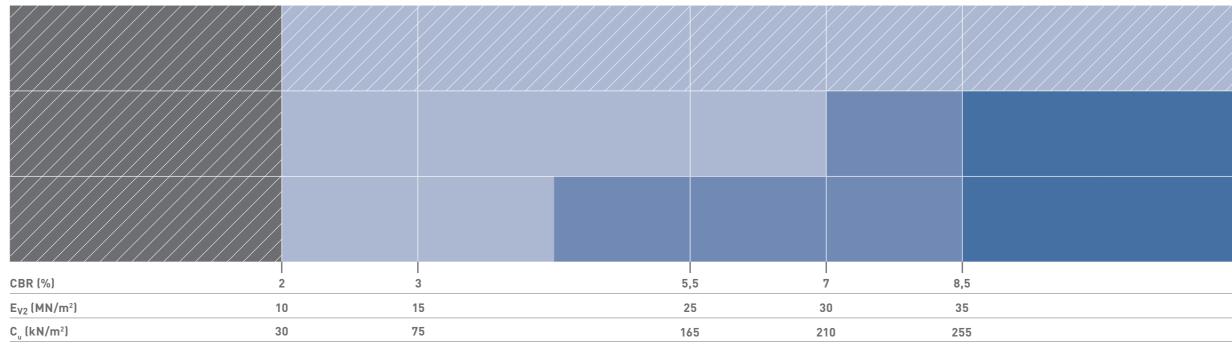
Simply find the best solution: http://basecalculator.HUESKER.com

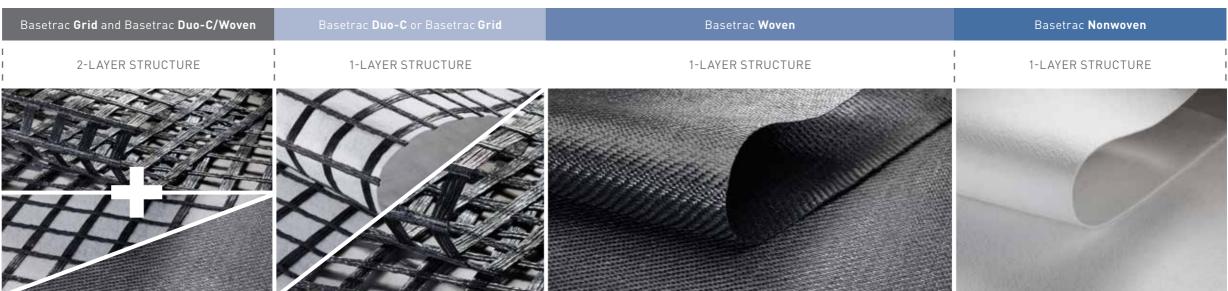
COÚNSELLING BÝ HÚESKÉR RECOMMENDED

Working platforms* and railways

Permanent loads

Temporary loads





*Valid for low loads imposed by normal site traffic and tracked construction plant. Special verifications are required for high loads.

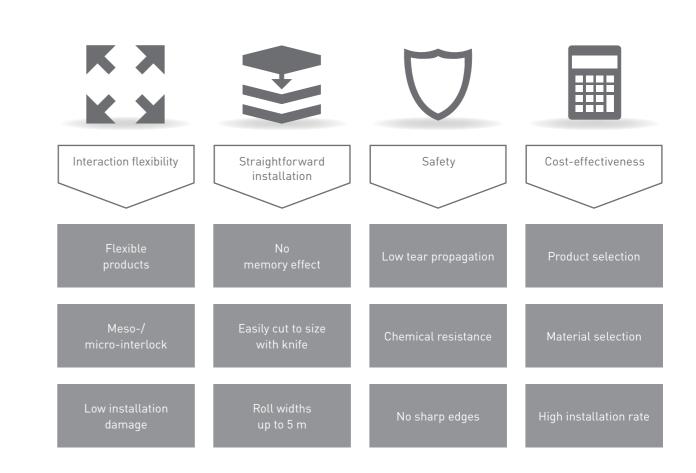
Basetrac – **Always a Good Choice**

With Basetrac, quality and cost-effectiveness, durability and practice orientation, safety and simplicity are no contradiction – quite the opposite.

Benefits of Basetrac

The four products in the Basetrac family offer the same advantages. Even at the level of installation, the works are simplified by the use of wide rolls that are easily cut to size with utility knives. This boosts the installation rate and helps to cut construction costs.

The outstanding interaction flexibility of the pliable grids and wovens ensures that the base course delivers a high standard of quality and performance. To enhance safety and longevity, the product portfolio also includes solutions with the necessary chemical resistance for alkaline environments. Being free of sharp edges, our woven Basetrac products do not require operatives to wear gloves. This too improves the safety of site workers.



Rigid or Flexible Grids?

Tremendous benefits of interaction flexibility

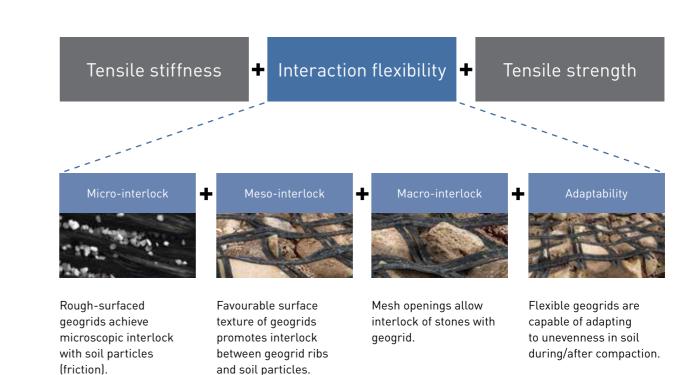
Geogrids serve to improve the mechanical properties of soils. To resist forces with only minor deformation, they need to exhibit a certain amount of extensional stiffness. Yet, the grid must not be too rigid or it will inhibit the accommodation of forces by the soil itself.

To compensate for structural deficits in the works, a certain degree of tensile strength is also required. Basetrac geogrids excel not only by their good extensional and tensile strengths, but also by their very high interaction flexibility – a property offered only by flexible geosynthetics.

Good interaction flexibility implies a perfect blend of macro-, meso- and micro-interlock plus a high degree of adaptability to the soil. This substantially improves the interaction or bond between soil and reinforcement.

(Lackner, C. (2012), Prestressed reinforced soil – Concept, investigations and recommendations, dissertation, Graz University of Technology)





- Excellent adaptability
- Fewer voids
- Activation of tensile strengths even during installation
- Evening out of inhomogeneities
- Reduced installation damage
- Formation of a flexible integral system with soil



Getting You Out of a Rut

Tapping new potential

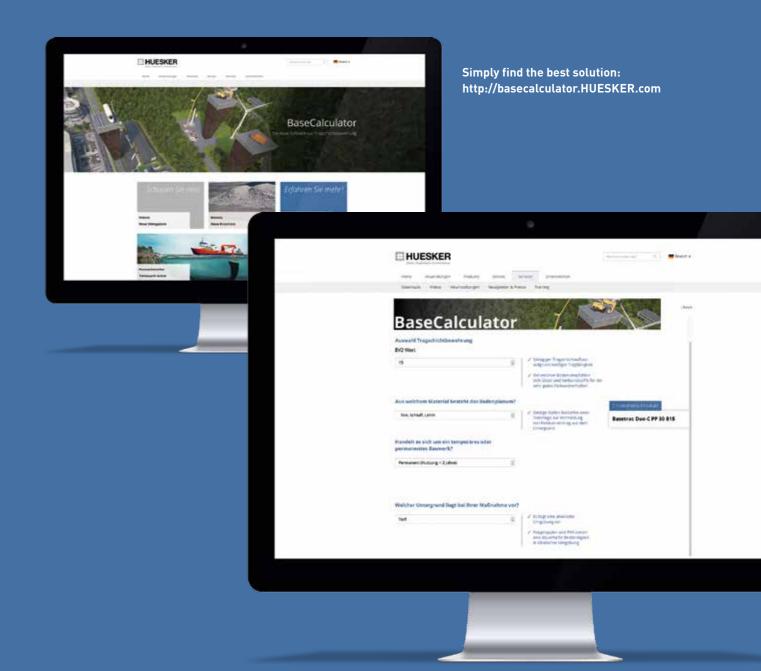
With Basetrac, HUESKER has simplified its product range as well as the product selection and installation process. It will help you save time and money while unlocking new business opportunities.

Naturally enough, apart from the products, you will also enjoy the full benefits of HUESKER's in-depth expertise. Our sales team will be glad to advise you with regard to your precise requirements while our engineers will provide support in the structural calculations for your project.

The Basetrac product family will still, of course, be complemented by our familiar high-tensile reinforcement products for more extreme demands, e.g. Stabilenka®, Robutec® and Fortrac®.

Accordingly, HUESKER will always deliver the best answer to your base course stabilisation needs. The most common requirements can none-theless be easily, promptly and inexpensively met by a solution from the new Basetrac product family. Hence, the most important thing that Basetrac simplifies is your decision.

Base reinforcement - simplified by HUESKER.



The BaseCalculator

The BaseCalculator software, available online, offers a simple means of finding the recommended HUESKER solution. With only a few clicks, you will receive advice on the most suitable geosynthetic product for your application along with details of how to save on base course material. This service is offered by HUESKER free of charge and without any time-consuming registration.

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HUESKER Synthetic is certified to ISO 9001, ISO 14001 and ISO 50001.







${\bf HUESKER\,Synthetic\,GmbH}$

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