

SPECIFICATION TEXT

Combigrid® 30/30 Q1 GRK 4 C

Geocomposite (Geogrid/Nonwoven Geotextile), **Combigrid® 30/30 Q1 GRK 4 C** or equivalent, made by NAUE GmbH & Co. KG, used as reinforcement under base and/or subbase courses over soft ground with additional separation and filtration function, supply and installation according to manufacturer's installation guideline.

Combigrid® 30/30 Q1 GRK 4 C is a geocomposite made of stretched, monolithic, textured polypropylene flat bars (PP) with welded junctions and a mechanically bonded filter geotextile which is welded within the geogrid structure, used for reinforcement in many fields of civil engineering, including landfill engineering, road construction and hydraulic engineering. The geogrid must not be coated with a separate polymer. Quantities are based on area to be covered. Wastage due to overlaps and cuts has to be included.

The following parameters have to be fulfilled:

Technical Data:

Raw material:	Polypropylene (PP)
Nominal tensile strength: (md/cmd) (EN ISO 10319)	≥ 30 / ≥ 30 kN/m
Tensile strength at 2 % strain: (md/cmd) (EN ISO 10319)	12 / 12 kN/m
Elongation at max. tensile strength: (md/cmd) (EN ISO 10319)	≤ 7 / ≤ 7 %
Tensile modulus at 1 % strain: (md/cmd) (EN ISO 10319)	600 / 600 kN/m
Radial Stiffness at 0.5% elongation: (EN ISO 10319)	≥ 418 kN/m
Cyclic Tensile Modulus at 0.5% Strain: (md/cmd) (ASTM D7556, Method A)	1,000 / 1,000 kN/m
Torsional Rigidity: (GRI GG9)	≥ 1,100 N-mm/deg
Construction related strain:	0 %
Product name printed on product:	max. 5.0 m distance

Roll Dimensions

Width x length

4.75 m x 100 m

Quality assurance

- Manufacturer has to be certified according to EN ISO 9001
- Product needs to provide CE marking
- Environmental-Product-Declaration
- Durability (Annex B, DoP) of min. 100 years for the use in natural soils with a pH-value between 4 and 9 and a soil temperature of <25°C.

Proof of delivery Combigrid® 30/30 Q1 GRK 4 C

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LOCATIONS & CONTACT INFO

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SOLUTIONS WE SUPPLY

GEOSYNTHETICS

Filter Fabrics

Stabilization Fabrics

Geogrids

- Road Grids
- Wall Grids
- Slope Stabilization

Specialty Fabrics

Composite Geomembranes

• GCLs, PVC, HDPE, LLDPE, EPDM, Granular Bentonite

SEDIMENT CONTROL

Inlet Protection

· Grated Inlet, Curb Inlet, Area Inlet Protection

Ditch Checks

- · Triangle Silt Dike
- GeoRidge

Perimeter Protection

- · High and Low-Porosity Silt Fence, Straw Wattles, Silt Socks
- Safety Fence

Flocculants & Water Treatment

Polymer-Based & Natural Flocculants

Sediment Basin Skimmers **Dewatering Bags**

Trackout Control

- FODS
- Rumble Grates

Turbidity Curtains

EROSION CONTROL

Basic Hydraulically Applied Mulches

- Wood
- Paper
- Blends
- Straw

High-Performance Hydraulically Applied Products

- FGM
- Additives & Tackifiers

Temporary Erosion Control Blankets

- Coir & Jute Mat/Nettings
- Short-Term ECBs
- Extended-Term ECBs

Permanent Erosion Control Blankets

- Turf Reinforcement Mats
- HP-TRMs
- Anchor Reinforced Vegetation System

Structural BMPs

- Transition Mats
- Geoweb Cellular Confinement
- Composite Vegetated Armor System
- Flex MSE Vegetated Wall System
- Articulated Concrete Block
- Gabions
- · Grout-Filled Geotextile Mats

Vegetation Establishment

- · Native Seed & Turf Seed
- Fertilizers
- · Organic Soil Additives
- Stratavault Soil Cells

STORMWATER MANAGEMENT

Water Quality

- Inlet Filter Boxes
- Pre-Treatment Chamber
- Nutrient Separating Baffle Boxes
- · High-Flow Biofiltration Media
- · Hydrodynamic Separators
- Stratavault

Water Ouantity

- · Modular Underground Storage Systems
- Chamber Detention Systems

Drainage

- HDPE Swale Liner
- Pipe & Fittings
- Drainage Composites
- Strip Drain

Inlet Structures

- PVC
- Drain Basis. In-Line Drains
- Landscape

Permeable Pavers

- · Permeable Articulating Concrete Block
- Grass Pavers
- Gravel Pavers
- Concrete Pavers

SPECIALTY

Natural & Synthetic Coir Fiber Logs Vegetated Reinforced Soil Slopes Soil Anchors **Root Barrier System** AquaBlok Muscle Wall

We are full line distributors of construction materials for all project types. Contact us for assistance with a project. From specification and development to installation and completion, we're here to help with all of your site solution needs.