

## SPECIFICATION TEXT

### Secugrid® 30/30 Q1

Geogrid, Secugrid® 30/30 Q1 or equivalent, made by NAUE GmbH & Co. KG, used as reinforcement under base and/or subbase courses over soft ground, supply and installation according to manufacturer's installation guideline.

**Secugrid® 30/30 Q1** is a geogrid made of stretched, monolithic, textured polypropylene flat bars (PP) with welded junctions, 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)	$\geq 30 / \geq 30$ kN/m
Tensile Strength at 2% Elongation: (md/cmd) (EN ISO 10319)	12 / 12 kN/m
Elongation at Nominal Tensile Strength: (md/cmd) (EN ISO 10319)	$\leq 7 / \leq 7$ %
Extensional Stiffness at 1% Strain: (md/cmd) (EN ISO 10319)	600 / 600 kN/m
Radial Stiffness at 0.5% elongation: (EN ISO 10319)	$\geq 418$ 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)	$\geq 1,100$ N-mm/deg
Construction related strain:	0 %
Product Identification/Imprint:	max. 5.0 m distance

**Roll Dimensions**

Width x Length

4.75 m x 100 m

**Following proof has to be provided:**

- Assessment of conformity according to DIN 18200
- Quality Management System according to DIN EN ISO 9001
- CE-Marking
- Environmental-Product-Declaration (EPD)
- Durability (Annex B, DoP) for at least 100 years in applications using natural soils with pH values between 4 and 9 and a soil temperature of < 25°C.

**Proof of Delivery (POD)****Secugrid® 30/30 Q1**

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**Bowman**  
Construction  
Supply Inc.



**Quick**  
Supply Co.



**Cascade**  
GEOSYNTHETICS

## LOCATIONS & CONTACT INFO

### ASP ENTERPRISES

aspent.com  
salesasp@aspent.com

### BOWMAN CONSTRUCTION SUPPLY

bowmanconstructionsupply.com  
salesbcs@bowmanconstructionsupply.com

### QUICK SUPPLY CO.

quicksupplyco.com  
salesquick@quicksupplyco.com

### CASCADE GEOSYNTHETICS

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salescascade@cascadegeos.com

**St. Louis, MO** 636.343.4357  
**Omaha, NE** 402.861.8579  
**Kansas City, MO** 816.554.1191  
**Wichita, KS** 316.393.1554

**Denver, CO** 303.696.8960  
**Loveland, CO** 970.535.0863  
**Colorado Springs, CO** 719.257.7840

**Des Moines, IA**  
515.289.1271

**Portland, OR** 971.339.1020  
**Salt Lake City, UT** 435.276.0820

## 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

- BFM
- 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 Quantity

- 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.

**GEOSYNTHETICS | EROSION CONTROL | STORMWATER MANAGEMENT  
SEDIMENT CONTROL | REVEGETATION & SOIL AMENDMENTS**