

# Secugrid® Base Reinforcement Geogrid

## Product Images



## Short Description

High-performance geogrid designed for effective base reinforcement, enhancing the stability and longevity of

construction projects.

## Description

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**Secugrid® Base Reinforcement Geogrid** is an advanced geosynthetic product designed to enhance the stability and load-bearing capacity of various construction projects. Made from high-quality polypropylene (PP) or polyester (PET), Secugrid® features robust polymeric bars welded together, forming a durable and reliable reinforcement structure.

In base reinforcement applications, Secugrid® geogrids are ideal for improving the bearing capacity of subgrades while reducing the need for excess granular materials. This makes them particularly valuable for renewable-focused projects seeking sustainable and efficient solutions. With its biaxial high modulus design, Secugrid® offers equal strength in both machine and cross-machine directions, delivering excellent performance at low strain levels of 1%, 2%, and 5%.

### Applications:

- Access road construction
- Crane & rig platforms
- Pavement support
- Earth retaining walls
- Embankment reinforcement

### Key Features:

- High tensile strength and low strain for effective load distribution
- Excellent interlock with granular materials for enhanced stability
- Reduces road deformation and extends service life
- Easy to handle and install, making it a cost-effective solution

Secugrid®'s unique torsional stiffness resists twisting motions, ensuring that the aggregate layer remains confined both laterally and vertically. This prevents subgrade deformation, preserving the integrity of the reinforced surface and increasing the overall bearing capacity of your project.

For optimal design and performance, utilize the **SecuCalc 2.2 Software**. This tool allows for the calculation of aggregate base material in both unreinforced and Secugrid® reinforced applications, ensuring your project meets the highest standards of performance and cost-efficiency.

Choose Secugrid® Base Reinforcement Geogrid for your construction projects and benefit from superior stability, durability, and sustainability.

Property	Test Method	Unit	20/20 Q1	30/30 Q1	40/40 Q1	60/60 Q1	80/80 Q1
Polymer	-	-	Polypropylene (PP), white				
Ultimate tensile strength, MD / CD	EN ISO 10319	kN/m	≥ 20 / ≥ 20	≥ 30 / ≥ 30	≥ 40 / ≥ 40	≥ 60 / ≥ 60	≥ 80 / ≥ 80

Property	Test Method	Unit	20/20 Q1	30/30 Q1	40/40 Q1	60/60 Q1	80/80 Q1	
Tensile strength at 2% elongation, MD / CD	EN ISO 10319	kN/m	8 / 8	12 / 12	16 / 16	22 / 22	25 / 25	
Tensile strength at 5% elongation, MD / CD	EN ISO 10319	kN/m	16 / 16	24 / 24	32 / 32	48 / 48	50 / 50	
Aperture size, MD x CD	-	mm x mm	Approx. 32 x 32	Approx. 32 x 32	Approx. 31 x 31	Approx. 31 x 31	Approx. 31 x 30	
UV-resistance	ASTM D 4355 (500hrs)	%	> 90	> 94	> 94	> 95	> 95	
Roll dimensions, width x length	-	m x m	4.75 x 100					
Elongation at ultimate strength, MD / CD	EN ISO 10319	%	$\leq 7 / \leq 7$	$\leq 7 / \leq 7$	$\leq 7 / \leq 7$	$\leq 7 / \leq 7$	$\leq 7 / \leq 7$	

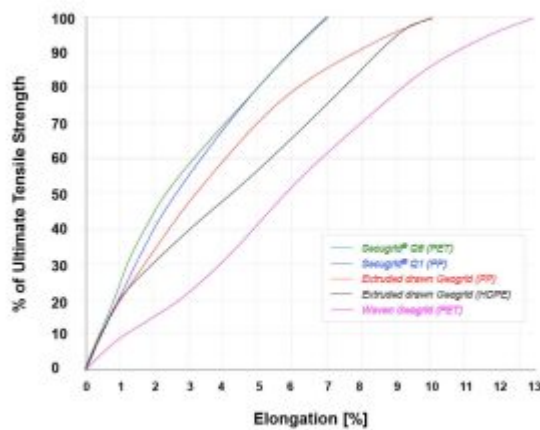
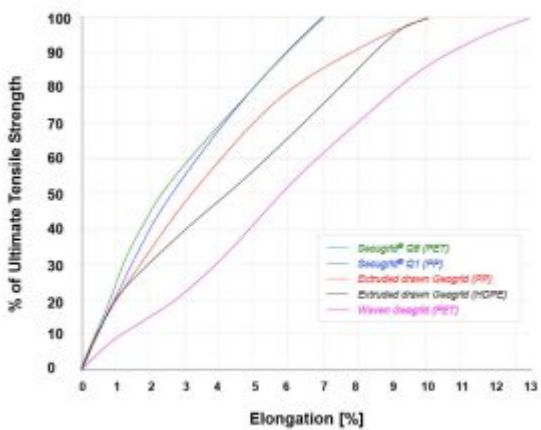
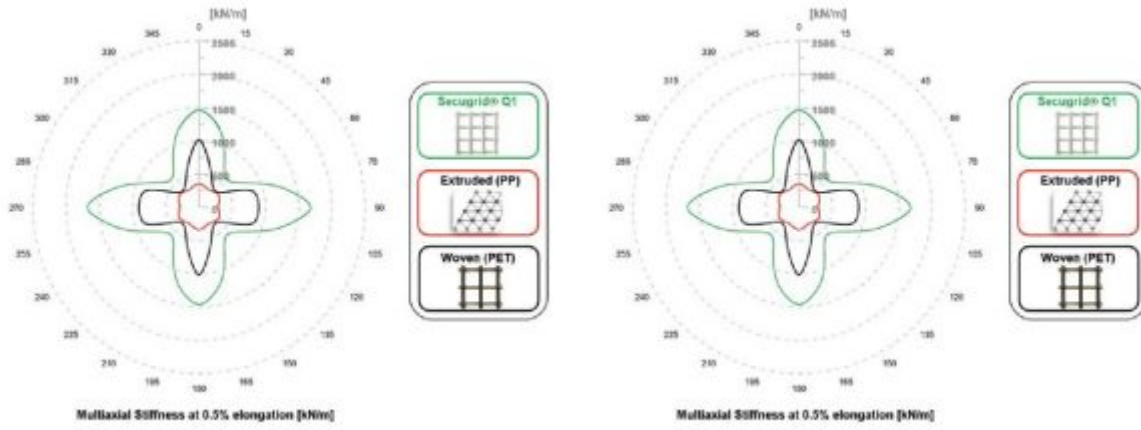


Image: Typical stress-strain curves for Secugrid® and market available geogrids



**Image: Radial secant stiffness of Secugrid® and other geogrids at 0.5% elongation**

Interested in how Secugrid® can benefit your next project? [Contact us for more information.](#)

## Additional Information

CODE	SECUGRID -BR
U.O.M	Each
Swatch	no_selection

