

# Secugrid Q6 (PET) Range

## Geogrid for superior soil reinforcement

REV: 24-Mar-2021

**Product Description:** Laid geogrid made of stretched, monolithic polyester (PET) flat or profile bars with welded junctions used for the reinforcement in many fields of civil engineering including landfill engineering, road construction and hydraulic engineering

### TECHNICAL DATA SHEET

Secugrid Geogrids	Test Standard*	unit	30/30 Q6	40/40 Q6	60/60 Q6	80/80 Q6	100/100 Q6	120/120 Q6
<b>PROPERTIES</b>								
Raw material	-	-	polyester (PET), transparent					
Mass per unit area	EN ISO 9864	g/m <sup>2</sup>	320	360	620	675	800	830
Max. tensile strength, md / cmd**	EN ISO 10319	kN/m	≥ 30 / ≥ 30	≥ 40 / ≥ 40	≥ 60 / ≥ 60	≥ 80 / ≥ 80	≥ 100 / ≥ 100	≥ 120 / ≥ 120
Elongation at nominal strength, md / cmd**	EN ISO 10319	%	≤ 7 / ≤ 7					
Tensile strength at 1% elongation, md / cmd**	EN ISO 10319	kN/m	7.5 / 7.5	10 / 10	15 / 15	20 / 20	25 / 25	30 / 30
Tensile strength at 2% elongation, md / cmd**	EN ISO 10319	kN/m	13.5 / 13.5	18 / 18	27 / 27	36 / 36	40 / 40	48 / 48
Tensile strength at 5% elongation, md / cmd**	EN ISO 10319	kN/m	24 / 24	32 / 32	48 / 48	64 / 64	80 / 80	96 / 96
Radial stiffness @ 0.5% strain***	EN ISO 10319	kN/m	≥ 286	≥ 634	≥ 540	≥ 1.236		
Aperture size, md x cmd**	-	mm x mm	approx. 34 x 34	approx. 34 x 33	approx. 32 x 31	approx. 30 x 30	approx. 28 x 28	approx. 28 x 28
UV-resistance (remaining tensile strength)	EN 12224	%	96.3					
Weather resistance	FGSV	class	high	high	high	high	high	high
Production specific elongation	-	%	0	0	0	0	0	0
Roll dimensions, width x length	-	m x m	4.75 x 100					

\*based on, \*\*md = machine direction, cmd = cross machine direction, \*\*\*this test is performed by external laboratories and is not part of the manufacturer's regular quality control.

The listed technical values are guiding values, achieved in the manufacturer's laboratories and/or independent testing institutes. The products are subject to changes without prior notice.

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