

SECUGRID® PP

PAVEMENT REINFORCEMENT GEOGRID

PRODUCT DESCRIPTION: SECUGRID® Q1 is a stretched, monolithic polypropylene (PP) flat bar welded geogrid. The unique manufacturing process allows the manufacture of wide width product enabling quick and economical installation in the field. The product has exceptionally low strain development at load generation within a pavement. The manufacturing process allows for equal strength in two directions (both along and across the roll directions) with a unique radial influence of reinforcement on the pavement materials between these primary strength directions.

APPLICATION: SECUGRID® Q1 In pavement design, the ability to mobilise increased tensile capacity within the pavement and subsequent “load spread” of applied traffic loads onto insitu sub-grade materials, provides benefits in reduced rutting of the pavement surface and may allow for a reduction in costly sub-base materials and can extend pavement life. Generally it is recognised that the critical parameter for such a geogrid is that the load is able to be generated at low strains. Typically this strain level is 2%. Limiting the strain in the geogrid to such levels will limit potential rutting and cracking of the pavement wearing course. SECUGRID® Q1 has very high load generation at low strains and is the product of choice, to support low load bearing subgrades in pavement applications.

TYPICAL PROPERTIES:

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
Elongation at ultimate strength, MD / CD	EN ISO 10319	%	≤ 8 / ≤ 8	≤ 8 / ≤ 8	≤ 8 / ≤ 8	≤ 8 / ≤ 8	≤ 8 / ≤ 8
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	4.75 x 100	4.75 x 100	4.75 x 100	4.75 x 100

Secugrid® is a registered trademark of Naue GmbH & Co. KG.
MD = machine direction, CD = cross machine direction

The listed technical values are minimum average roll values (MARV), achieved in our laboratories and/or independent testing institutes.



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SYDNEY

P: (02) 9725 4321

F: (02) 9725 4304

E: info@globalsynthetics.com.au

BRISBANE

P: (07) 3865 7000

F: (07) 3865 4444

www.globalsynthetics.com.au

PERTH

P: (08) 9459 4300

F: (08) 9459 4311

MELBOURNE

P: (03) 9791 1772

F: (03) 9791 1776

ADELAIDE

P: (08) 8384 8894

F: (08) 8384 3886

