

ProGrid® Polypropylene (PP) Geogrid

Biaxial Strength Polypropylene Geogrid

Stiff and high modulus extruded reinforcing and stabilising geogrid



Product Information

ProGrid® PP Geogrid is formed by punching holes and stretching a stiff plastic sheet to form a geogrid with uniform openings to contain and absorb lateral forces exerted on the reinforcement from implied loads. The transfer of implied loads to the geogrid is by way of a combination of friction and interlocking with the surrounding granular particles. ProGrid® PP Geogrid provide a stiff, high modulus reinforcing layer to allow the construction of roads and other amenities over weak subgrades.

Applications

- Base, sub-base stabilisation and reinforcement
- Subgrade / soil stabilisation and reinforcement
- Raft reinforcement construction
- Road, railway and airport pavements

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Benefits and Features

- Reinforcement/stabilisation of the subgrade and base layers to provide structural stability improvements.
- Increases lateral confinement of unbound and modified gravel material layers
- Improves subgrade or base course load bearing capacity
- Helps control expansive soil/subgrade movements and associated longitudinal cracks in sealed road pavements
- Robust against installation damage, and chemical and biological attack
- 3.95m wide x 100m long rolls



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Product Data Sheet

Product Grade

Typical Properties	Test Method	Unit	20 / 20	30 / 30	40/40
Geogrid			Polypropylene (PP)		
Ultimate Tensile Strength (MD/CD)	ASTM D4595 or EN ISO 10319 / ASTM D6637	kN/m	20/20	30/30	40/40
Strain @ Ultimate Strength (MD/CD)	ASTM D4595 or EN ISO 10319 / ASTM D6637	%	13/13	13/13	13/13
Tensile Strength @ 2% Strain (MD/CD)	ASTM D4595 or EN ISO 10319 / ASTM D6637	kN/m	7/7	11/11	14/14
Tensile Strength @ 5% Strain (MD/CD)	ASTM D4595 or EN ISO 10319 / ASTM D6637	kN/m	14/14	22/22	28/28
Junction Efficiency (MD/CD)	ASTM D7737/D7737M-15	%	100/100	100/100	100/100
Aperture Size (MD/CD)		mm	38/43	34/41	37/43
Aperture stability	ASTM D 7864	N-m/degree	0.50	0.75	0.98
Installation damage resistance	ASTM D5818 or ISO 10722	%	98	98	98
Radial stiffness @ 0.5% strain	ASTM D4595 or EN ISO 10319 / ASTM D6637	kN/m	≥ 350	≥ 550	NA
Roll Dimensions		m	3.95 x 50	3.95 x 50	3.95 x 50



About Us

Leaders in Geosynthetics

Global Synthetics is a 100% Australian-owned company, proud to offer a complete range of high-quality geosynthetic products backed by over 200 years of combined staff experience in the industry.

We have supplied products to some of the largest recent infrastructure works in Australia. Global Synthetics provides major benefits to any geotechnical engineering project with the right products and our technical expertise.

Global Synthetics products are used in the following applications:

- Pavement Stabilisation
- Ground Improvement
- Soil Reinforcement and Retaining Structures
- Water Management
- Drainage Systems & Hydraulic Works
- Landfills
- Coastal Erosion Structures

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