

GEOGRIDS ENGINEERED FOR HIGH STRENGTH PAVEMENT STABILISATION

GEOFABRICS GEOGRID BIAXIAL

TECHNICAL DATA SHEET

Geofabrics® Geogrid™ Biaxial are stiff monolithic geogrids engineered for load support in two directions (longitudinal and transverse), making them ideal for subgrade stabilisation, pavement stabilisation and base layer improvement.

Made from polypropylene, this high-performance geogrid is designed for use in Mechanical Stabilised Layers (MSL) with granular fill to efficiently distribute loads over wider areas. Its open aperture design interlocks with a wide range of fill materials, improving soil confinement and stability.

- Reduces aggregate layer thickness by up to 50% without compromising performance
- Cuts costs and CO₂ emissions by reducing excavation, transport and aggregate use during construction
- Improves pavement durability by spreading heavy loads and reducing differential settlement
- All geogrids are manufactured in accordance with a management system which complies with the requirements of ISO 9001:2015

GEOGRID BIAXIAL - SPECIFICATIONS

PROPERTY	TEST METHOD	UNITS	Biaxial 2020	Biaxial 3030	Biaxial 4040
Polymer			Polypropylene		
Carbon Black Content	ASTM D1603	%	2		
Minimum Roll Width	-	m	3.95	3.95	3.95
Minimum Roll Length	-	m	50	50	50
Quality Control Strength (MD/CD)					
Ultimate Tensile Strength T_{ult}	ASTM D6637	kN/m	20 / 20	30 / 30	40 / 40
Tensile strength @ 2% strain	ASTM D6637	kN/m	7 / 7	10.5 / 10.5	14 / 14
Tensile strength @ 5% strain	ASTM D6637	kN/m	14 / 14	21 / 21	28 / 28
Strain at T_{ult}	ASTM D6637	%	13 / 13	13 / 13	13 / 13

Notes:

(MD) = Machine Direction, (CD) = Cross Machine Direction Strength.
All quoted values and dimensions are typical unless stated otherwise.

The values published are to the best of our knowledge true and correct and are obtained through independent and in-house laboratory testing. The product specification may change at any time without prior notice. No warranty is expressed or implied. Manufactured in a facility certified to the ISO 9001 Quality Management System Standard.

Visit [geofabrics.co](https://www.geofabrics.co) or call 1300 60 60 20 (AU)
or [geofabrics.co.nz](https://www.geofabrics.co.nz) or call 0800 60 60 20 (NZ)

GEOFABRICS®
Sustainable solutions

IMPORTANT NOTICE - DISCLAIMER - The information contained in this brochure is general in nature. In particular the content of this brochure does not take account of specific conditions that may be present at your site. For full disclaimer and further information regarding installation visit [geofabrics.co/disclaimer](https://www.geofabrics.co/disclaimer) © Copyright held by Geofabrics Australasia Pty Ltd. All rights are reserved and no part of this publication may be copied without prior permission. Published December 2025.

