EXCELLENT STABILISATION, SEPARATION AND FILTRATION

GEOFABRICS GEOGRID TRITEX GEOCOMPOSITE

TECHNICAL DATA SHEET

Geofabrics® Geogrid™ Tritex™ geocomposite combines Australian made Bidim® Green, a premium non-woven geotextile made from Australian recycled plastic material, and triaxial geogrid. These products are laminated together to create a high-performance geocomposite.

- Offers separation, filtration and aggregate interlock simultaneously
- Uses Bidim Green geotextile layers, made with a combination of recycled PET and virgin plastic material
- Enhanced structural characteristics results in more economical construction, improved performance and longer life
- Improved cost benefits by reducing aggregate layer thickness, the need for excavation and increasing bearing capacity to allow for higher loads
- Applicable to Road & Rail sectors

BIDIM GREEN - A14G - A49G CHARACTERISTIC VALUES TECHNICAL DATA

QLD MRTS27 | NSW TfNSW R63 | NZ TNZ F/7						
GRADE	**STRENGTH CLASS**	**GRAB TENSILE STRENGTH**	**TRAPEZOIDAL TEAR STRENGTH**	**G RATING**	**EOS - PORE SIZE - O_{95}**	**FLOW RATE (Q_{100})**
		N	N	-	µm	l/m²/s
		AS 3706.2	AS 3706.3	AUSTROADS 90	AS 3706.7	AS 3706.9
		Q VALUE	Q VALUE	Q VALUE	MEAN	MEAN
A14G	A	≥ 500	≥ 180	≥ 900	≤ 120	≥ 50
A19G	B	≥ 700	≥ 250	≥ 1350	≤ 120	≥ 50
A29G	C	≥ 900	≥ 350	≥ 2000	≤ 120	≥ 50
A39G	D	≥ 1200	≥ 450	≥ 3000	≤ 120	≥ 50
A49G	E	≥ 1600	≥ 650	≥ 4500	≤ 120	≥ 50

The data contained in this table is obtained from the manufacturer's laboratory testing. To ensure this information is current please contact your local branch of Geofabrics Australasia.

1. Permittivity / Q100 - NSW and NZ ranges do not require characteristic Q values, however QLD Q value specification is met by all Bidim Green A range geotextile.
2. Characteristic value (Q) = Mean - 0.83 x standard deviation of the lot tested.
3. All grades meet filtration classes I - VIII for MRTS27 Geotextiles (Separation and Filtration).
   All grades meet filtration classes 1-5 for TfNSW R63 QA Specifications - Geotextiles (Separation and Filtration).
   All grades meet filtration classes 1-4 for TNZ F/7 : Specifications - Geotextiles.

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BIDIM GREEN: A12G - A64G TYPICAL VALUES TECHNICAL DATA

TEST	STANDARD	UNITS	A12G		A14G		A24G		A34G		A44G		A64G	
Mechanical Properties														
Wide Strip Tensile Strength (MD/XMD)	AS3706.2	kN/m	8.0	8.0	11.0	11.0	14.0	14.0	18.5	18.5	26.5	26.5	37.5	37.5
Wide Strip Toughness (MD/XMD)	AS3706.2	kJ/m²	1.5	1.5	2.5	2.5	2.7	2.7	3.5	3.5	4.8	4.8	8.2	8.2
Grab Tensile Strength (MD/XMD)	AS3706.2	N	500	500	720	720	850	850	1,270	1,270	1,850	1,850	2,620	2,620
Trapezoidal Tear Strength (MD/XMD)	AS3706.3	N	200	200	300	300	345	345	440	440	590	590	830	830
CBR Burst Strength	AS3706.4	N	1,500		2,000		2,500		3,400		4,650		6,400	
G Rating	Austroads	-	1,200		1,550		2,000		2,510		3,500		5,100	
Hydraulic Properties														
Pore Size (O_{95})	AS3706.7	µm	130		110		80		75		75		75	
Permittivity	AS3706.9	s^{-1}	3.40		3.20		2.65		1.75		1.35		0.90	
Coefficient of Permeability	AS3706.9	m/s x10^{-4}	43		43		43		43		43		43	
Flow Rate @ 100mm Head	AS3706.9	l/m²/sec	340		320		265		175		135		90	

The typical values, data and specifications published are to the best of our knowledge true and correct and are obtained from thorough independent and in-house laboratory testing. The product specification may change at any time without prior notice. No warranty is expressed or implied. Manufactured by Geofabrics Australasia Pty Ltd in a facility certified to the ISO 9001 Quality Management System Standard.

GEOFABRICS GEOGRID TRITEX

Stiff monolithic geogrids with integral junctions made from a punched polypropylene sheet, which is then orientated in three directions. The resulting ribs of triangular pattern have a high degree of molecular orientation, which extends continuously through the mass of the integral nodes.

TECHNICAL DATA

PROPERTY	TEST METHOD	UNITS	Triaxial 26
Polymer			Polypropylene
Carbon Black Content	ASTM D1603	%	2
Minimum Roll Width	-	m	3.95
Minimum Roll Length	-	m	50 & 75
Quality Control Strength			
Typical Unit Weight	EOTA TR41 B.3	kg/m²	0.25
Hexagon Pitch	EOTA TR41 B.4	mm	80 (±4)
Radial Secant Stiffness at 0.5% Strain	EOTA TR41 B.1	kN/m	390 (-75)
Radial Secant Stiffness Ratio	EOTA TR41 B.1	-	0.8 (-0.15)
Radial Secant Stiffness at 2% Strain	EOTA TR41 B.1	kN/m	290 (-65)
Junction Efficiency	EOTA TR41 B.2	%	100 (-10)

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Visit **geofabrics.co** or call 1300 60 60 20

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