

TECHNICAL DATA SHEET:

TGSG

Biaxial Geogrid & Geocomposite



TGSG biaxial geogrids and geocomposites are used for the reinforcement of soils and aggregates in construction of road pavements, hardstands, working platforms and reinforced foundations.

TGSG geogrids are stiff monolithic geogrids with integral junctions. They are manufactured from a punched polypropylene sheet, which is then orientated in two directions such that the resulting ribs have a high degree of molecular orientation which continues through the area of the integral node. The ribs have a rectangular cross section with square edges.

TGSG geocomposites comprises of TSGS biaxial geogrid and a nonwoven geotextile that complies with TNZ F7: 2003 Strength Class B and Filtration Class 1 - 4.

SECTOR SUITABILITY



All geogrid and geocomposites are manufactured in accordance with a management system which complies with the requirements of ISO 9001:2008. The properties contributing to the performance are:

PROPERTY	TEST METHOD	UNITS	TGSG2020	TGSG3030	TGSG4545	TGSG2020 -CLASS B	TSGS3030 - CLASS B	
Polymer	-	-	Polypropylene					
Carbon Black Content	ASTM D4218	%	≥ 2.0					
Aperture Size	-	mm	41 x 41	41 x 41	32 x 32	35 x 35	34 x 34	
Roll Size	-	m	3.8 x 75	3.8 x 50	3.9 x 50	3.9 x 50	3.9 x 50	
Quality Control Strength (MD/CD)								
Ultimate Tensile Strength T_{ult}	ASTM D6637	kN/m	20 / 20	30 / 30	45 / 45	20 / 20	30 / 30	
Tensile strength @ 2% strain	ASTM D6637	kN/m	7 / 7	10.5 / 10.5	16 / 16	7 / 7	10.5 / 10.5	
Tensile strength @ 5% strain	ASTM D6637	kN/m	14 / 14	21 / 21	32 / 32	14 / 14	21 / 21	
Strain at T_{ult}	ASTM D6637	%	15 / 13	15 / 13	13 / 13	13 / 13	13 / 13	
Geotextile properties								
Polymer	-	-	-			PET		
TNZ F/7 Strength Class	-	-	-			B	B	

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

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