

TECHNICAL DATA SHEET:

# TGSG

## Biaxial Geogrid



**TGSG biaxial geogrids 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.

### SECTOR SUITABILITY



All geogrid and geocomposites are manufactured in accordance with a management system which complies with the requirements of ISO 9001:2015. The properties contributing to the performance are:

PROPERTY	TEST METHOD	UNITS	TGSG2020	TGSG3030
Polymer	-	-	Polypropylene	
Carbon Black Content	ASTM D4218	%	≥ 2.0	
Aperture Size	-	mm	41 x 41	41 x 41
Roll Size	-	m	3.8 x 75	3.8 x 50
Quality Control Strength (MD/CD)				
Ultimate Tensile Strength $T_{ult}$	ASTM D6637	kN/m	20 / 20	30 / 30
Tensile strength @ 2% strain	ASTM D6637	kN/m	7 / 7	10.5 / 10.5
Tensile strength @ 5% strain	ASTM D6637	kN/m	14 / 14	21 / 21
Strain at $T_{ult}$	ASTM D6637	%	15 / 13	15 / 13

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

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