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# **MASTAGRID™** Composite

Composite Geogrid

## **GGCB2020**

### **TECHNICAL SPECIFICATIONS**



WORLD-CLASS GEOSYNTHETICS. UNBEATABLE VALUE. EXCEPTIONAL SERVICE.

## DESCRIPTION

**mastaGRID™ Composite** is an engineered geogrid designed for soil stabilisation, separation and reinforcement applications. mastaGRID™ Composite is manufactured from Polypropylene through the process of extruding, longitudinal and transverse heat stretching. mastaTEX™ is then heat bonded to the grid to form a sound composite structure. It is designed to prevent reflection cracking, water damage and improve load capacity in road construction and renovation. It has the property of high temperature resistance and anti-fatigue cracking and therefore extending the life and time of asphalt pavements.

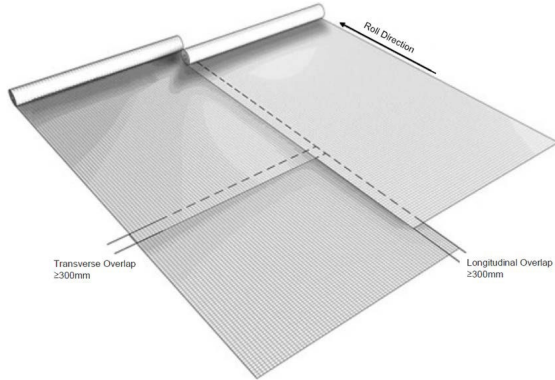
## APPLICATION

+ Base Reinforcement      + Subgrade Reinforcement      + Embankment Stabilisation      + Subgrade Separation

## SPECIFICATIONS

mastaGRID™ Composite				
INDEX PROPERTIES	TEST METHOD	UNITS	GGCB2020	
			MD VALUES	TD VALUES
Polymer		-	PP	-
Minimum Carbon Black	ASTM D 4218	%	2	-
Tensile Strength @ 2% strain	ASTM D 6637	kN/m (lb/ft)	7 (480)	7 (480)
Tensile Strength @ 5% strain	ASTM D 6637	kN/m (lb/ft)	14 (960)	14 (960)
Ultimate Tensile Strength	ASTM D 6637	kN/m (lb/ft)	20 (1,370)	20 (1,370)
Strain @ Ultimate Strength	ASTM D 6637	%	13	13
Junction Efficiency	GRI GG2	%	93	93
Flexural Rigidity	ASTM D 7748	mg-cm	750,000	-
Aperture Stability	ASTM D 7864	m-N/deg	0.50	-
Damage Factor		%	1.02	-
DIMENSIONS				
Aperture Dimensions	-	mm (in)	35 (1.4)	35 (1.4)
Minimum Rib Thickness	ASTM D1777	mm (in)	1.5 (0.06)	1.1 (0.04)
Roll Width	-	m (ft)	3.95 (12.9)	-
Roll Length	-	m (ft)	50 (164)	-
GEOTEXTILE PROPERTIES				
Polymer			PET	-
EOS	ASTM D 4751	mm	<0.12	-
Flow rate	AS 3706.9	L/s/m <sup>2</sup>	>100	-

**DISCLAIMER** Consult Jaybro Group or a certified Engineer for site specific installation instructions. Jaybro Group reserves the right to change its product specification at any time. It is the responsibility of the specifier and purchaser to ensure that product specifications used for design and procurement purposes are current with the products used in each instance. E&OE



## OVERLAP

The recommended minimum overlap for woven geotextile is 1000 mm in all directions for all subgrade CBR values. The recommended minimum geogrid/geocomposite overlaps are shown below:

mastaGRID™ Composite	
SUBGRADE CBR	MINIMUM OVERLAP
> 2	300 - 450mm
1 – 2	600 - 900mm
0.5 – 1	900mm
< 0.5	Advice from Engineering and Technology Branch to be obtained
All roll ends	900mm
All woven geotextiles	Standard Test Method for Determining the Shear Strength of Soil-Geosynthetic and Geosynthetic-Geosynthetic Interfaces by Direct Shear

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