



CTM Technical Textiles Ltd.

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Product Data Sheet – CTM Biaxial Geogrids

CTM- GGB Geogrid is biaxial geo grid composed of high tenacity polyester (PET) multifilament yarn with high molecular weight and low carboxyl end group. This Geo grid is woven and coated with PVC to give better long term design strength in reinforcement of granular road base and sub-base applications. CTM geogrid is inert to biological and chemical degradation. They are resistant to natural encountered alkalis, acids and other chemicals. These Grids have different applications like Retaining Walls, Steep slopes, precast modular block walls, embankments on soft soils, waste containment applications.

Property	Test Method	Unit	CTM GGB 18	CTM GGB 30	CTM GGB 40	CTM GGB 60
Peak Tensile Strength (Minimum Average Roll Values - MARV)						
Machine Direction	ASTM-6637	lbs/ft (KN/m)	1200 (17.51)	2055 (30)	2740 (40)	4110 (60)
Cross Machine Direction			1200 (17.51)	2055 (30)	2740 (40)	4110 (60)
Reduction Factors						
Creep-RF _{CR} @ 20° C & 100 Years	ASTM D 6992/ISO 10319		1.49	1.49	1.49	1.49
Installation Damage-RF _{ID} Silty Sand – Grade type III	ASTM D 5818/ISO 10319		1.08	1.08	1.08	1.11
Durability-RF _D 4<pH<9	*		1.15	1.15	1.15	1.15
Creep Limited Strength	ASTM D 5262 / D 6992		805	1387	1839	2758
LTDS - 100 years, Sand, 4<pH<9		lbs/ft (KN/m)	649 (9.47)	1110 (16.21)	1481 (21.6)	2160 (31.54)
Pullout Interaction Coefficient, C _i	ASTM-6706		0.8	0.8	0.8	0.8
Colour			Black			
Coating Type			PVC			
Yarn Type			High Tenacity Low Shrinkage Polyester Yarn			
			Feet	Yard	Mtr	
Roll Dimension (Width X Length)			4 X 229	1.31 X 76.33	1.2 X 70	
			8 X 229	2.62 X 76.33	2.4 X 70	
Roll Area			Feet ²	Yard ²	Mtr ²	
			916 / 1832	100 / 200	84 / 168	

* Test values are evaluated by TRI (USA) Lab. (1) Standard tolerances and technical developing change reserve. (2) Warranty: CTM Technical Textiles Ltd warrants our products to be free from defects in material and workmanship when delivered to the customer end. The products meet published specs. If for any reason the product is found to be defective and or not up to the standard CTM Technical Textiles Ltd will replace the product without charge. Replacing the product are the buyers sole remedy for a breach and CTM will not be liable for any consequential damage attributed to a defective Grid. This warranty is given in lieu of all other warranties, express or implied, including the implied warranty of merchantability or fitness for a particular purpose. There are no warranties, which extend beyond the description provided herein. CTM assumes no liability for the accuracy or completeness of this information or for the ultimate use by the customer. (3) This document should not be construed as engineering advice. (4) CTM Geo grid is registered name of CTM Technical Textiles ltd.