

MACGRID® WB1 BI-AXIAL GEOGRID

Product Description

MacGrid® WB1 is a polymer geogrid for use in soil reinforcement and mechanically stabilized earth applications. It is composed of high molecular weight, high bi-axial tenacity multifilament polyester yarns that are woven into a stable network placed under tension. The high strength polyester yarns are coated with a polymer coating. MacGrid® is inert to biological degradation and is resistant to naturally encountered chemicals, alkalis and acids. Its structure offers high strength with low strain, characteristics normally only found in rigid biaxial geogrids.

REINFORCEMENT PROPERTIES		TEST METHOD	MARV VALUES	
			English (lbs/ft)	Metric (kN/m)
Ultimate Strength	MD	ASTM-6637	2388	34.9
	XMD		3870	56.5
Initial Modulus	MD	ASTM-6637	178,000	2598
	XMD		172,900	2524
Load at 2% Strain	MD	ASTM-6637	526	7.68
	XMD		578	8.43
2% Tensile Modulus	MD	GRI-GG1	26,300	384
	XMD		28,900	422
Load at 5% Strain	MD	ASTM-6637	1042	15.2
	XMD		792	11.5
Load at 2% Strain	MD (GP)	ASTM 6637+ASTM 5818 TRI/Method	401	5.8
	MD (SW)		490	6.5
Load at 2% Strain	XMD (GP)	ASTM 6637 + ASTM 5818 TRI/Method	521	7.6
	XMD (SW)		570	8.3
Load at 5% Strain	MD (GP)	ASTM 6637 + ASTM 5818 TRI/Method	795	11.6
	MD (SW)		972	14.1
Load at 5% Strain	XMD (GP)	ASTM 6637 + ASTM 5818 TRI/Method	715	10.4
	XMD (SW)		781	11.4
Coefficient of Pullout Interaction		ASTM-6706 Sandy Gravel Sand	C _i = 1.0 C _i = 1.0	
Aperture Size*		Measured	MD 1.0 in. XD 1.3 in.	

*We have the capability to make aperture sizes to suit specific requirements.
GP=Course Gravel SW=Well Groomed Gravel

Standard roll size is 12' x 150'



Maccaferri reserves the right to amend product specifications without notice and specifiers are requested to check as to the validity of the specifications they are using.

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