Mid-Atlantic
Erosion Control, Inc.
704-483-1100

TerraGrid B100

Subgrade Improvement Biaxial Geogrid

TerraGrid B100 is composed of high molecular weight, high 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. TerraGrid B100 is inert to biological degradation and is resistant to naturally encountered chemicals, alkalis and acids. TerraGrid B100 increases the service life of pavement structures by reducing lateral spreading of the base or sub-base aggregate. The geogrid will reduce applied vertical pressure of heavy loads at depth of aggregate by spreading the load over a wider area.

Reinforcement Properties		**Test Method**	**Minimum Avg Roil Values**	
			Lbs/ft	**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
True 1% Junction Tensile Modulus in Use	MD	GRI-GG2-87	20,885	304
	XMD		17,852	260
True 2% Junction Tensile Modulus in Use	MD	GRI-GG2-87	17,690	258
	XMD		16,074	234
True Junction Strength In Use @ 2% Strain	MD	GRI-GG2-87	210	3.1
	XMD		276	4.0
True Junction Tensile In Use @ 2% Strain	MD	GRI-GG2-87	354	5.2
	XMD		497	7.2
5% Secant Moduli	MD	ASTM-6637	15,840	231
	XMD		20,840	304
Junction Strength	MD	GRI-GG2	3403 lb/ft²	163.0 kPa
	XMD		4213 lb/ft²	201.8 kPa

True in place strength after site damage testing based on TRI method of installation damage testing with coarse gravel (CG) & sand gravel (SG)				
Load at 2% Strain	MD (CG)	ASTM-6637 + ASTM-5818	401	5.85
	MD (SG)	TRI/Method	490	6.50
Load at @% Strain	XMD (CG)	ASTM-6637 + ASTM-5818	521	7.60
	XMD (SG)	TRI/Method	570	8.31
Load at 5% Strain	MD (CG)	ASTM-6637 + ASTM-5818	795	11.60
	MD (SG)	TRI/Method	972	14.10
Load at 5% Strain	XMD (CG)	ASTM-6637 + ASTM-5818	715	10.40
	XMD (SG)	TRI/Method	781	11.40

Coefficient of Pullout Interaction	ASTM-6706 Sandy Gravel Sand	 C; = 1.0 C; = 1.0
Aperture Size	Measured	MD 1.0 in XMD 1.0 in