



# TerraGrid B120

## SUBGRADE IMPROVEMENT BIAXIAL GEOGRID

TerraGrid B120 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 B120 is inert to biological degradation and is resistant to naturally encountered chemicals, alkalis and acids. TerraGrid B120 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. Roll Values	
		Lbs/ft	kN/m
Ultimate Strength MD	ASTM-6637	2388	34.9
		5268	76.8
Initial Modulus MD	ASTM-6637	178,000	2598
		235,000	3432
True 1% Junction Tensile Modulus in Use MD	GRI-GG2-87	22,168	325
		27,500	401
True 2% Junction Tensile Modulus in Use MD	GRI-GG2-87	18,200	270
		25,300	370
True Junction Strength In Use@ 2% Strain MD	GRI-GG2-87	210	3.1
		276	4.0
True Junction Tensile In Use@ 2% Strain MD	GRI-GG2-87	354	5.2
		497	7.2
5% Secant Moduli MD	ASTM-6637	20,840	304
		27,340	398.8
Junction Strength MD	GRI-GG2	7,380 lb/ft <sup>2</sup>	107.7 kPa
		7,298 lb/ft <sup>2</sup>	106.6 kPa

<i>True in place strength after site damage testing based on TRI method of "installation" damage testing with coarse gravel (CG) and sand gravel (SG).</i>			
Load at 2% Strain MD (CG)	ASTM-6637 + ASTM-5818	438	6.3
	TRI/Method	496	7.2
Load at 2% Strain XMD (CG)	ASTM-6637 + ASTM-5818	664	9.7
	TRI/Method	751	11.0
Load at 5% Strain MD (CG)	ASTM-6637 + ASTM-5818	868	12.7
	TRI/Method	983	14.3
Load at 5% Strain XMD (CG)	ASTM-6637 + ASTM-5818	941	13.7
	TRI/Method	1065	15.5

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

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**815 Buxton Street Winston Salem, NC 27101**  
**888 - 239 - 4539 • Fax: 336 - 747 - 1652**  
**www.hanesgeo.com info@hanesgeo.com**