

# ACF BX12

## Biaxial Geogrid for Paving and Reinforcement

ACF BX12 geogrid is composed of polypropylene resin which is extruded into a stable geogrid structure. ACF BX12 geogrid is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

ACF BX12 geogrid increases roadbed and foundation bearing capacity, while prolonging the service life of each by the confinement of the base course. ACF BX12 prevents lateral spreading of the base or sub-base aggregate and allows for shear interaction to develop between the aggregate and the geogrid.

ACF BX12 geogrid reduces the applied vertical pressure of heavy loads at depth of aggregate by spreading the load over a wider area

<u>Geogrid Property</u>	<u>Test Method</u>	<u>Typical Roll Value</u>	
		<u>MD</u>	<u>CD</u>
Ultimate Tensile Strength <sup>1</sup>	ASTM D6637	1310 lbs/ft	1970 lbs/ft
Tensile Strength @ 2% <sup>1</sup>	ASTM D6637	410 lbs/ft	620 lbs/ft
Tensile Strength @ 5% <sup>1</sup>	ASTM D6637	810 lbs/ft	1340 lbs/ft
UV Resistance	ASTM D4355	100%	
Junction Efficiency <sup>2</sup>	ASTM D7737	93%	
Flexural Stiffness <sup>3</sup>		750,000 mg-cm	
Aperture Stability <sup>4</sup>		0.65 m-N/deg	
Resistance to UV Degradation <sup>5</sup>	ASTM D4355	100%	
Rib Thickness		0.05 in	
Aperture Size		1.0 in	1.3 in
Roll Size (width x length)		12.5 ft x 246 ft	
Roll Area		341 yds <sup>2</sup>	

<sup>1</sup>True resistance to elongation when initially subjected to a load determined in accordance with ASTM D 6637 without deforming test materials under load before measuring such resistance or employing “secant” or “offset” tangent methods of measurement so as to overstate tensile properties.

<sup>2</sup>Load transfer capability calculated as a % of ultimate tensile strength.

<sup>3</sup>Resistance to bending force determined in accordance with ASTM D 7748/7748M-14

<sup>4</sup>Resistance to in-plane rotational movement measured by applying a 20kg-cm (2 m-N) moment to the central junction of a 9 inch x 9 inch specimen in accordance with U.S. Army Corps of Engineers Methodology for measurement of Torsional Rigidity.

<sup>5</sup>Tested according to ASTM D 4355.

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