

ACF BX13

Biaxial Geogrid for Paving and Reinforcement

BX Series

Technical Data Sheet

ACF BX13 geogrid is composed of polypropylene resin which is extruded into a stable geogrid structure. ACF BX13 geogrid is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

ACF BX13 geogrid increases roadbed and foundation bearing capacity, while prolonging the service life of each by the confinement of the base course. ACF BX13 prevents lateral spreading of the base or sub-base aggregate and allows for shear interaction to develop between the aggregate and the geogrid.

ACF BX13 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 ¹ | ASTM D6637 | 1100 lbs/ft | 1920 lbs/ft |
| Tensile Strength @ 2% ¹ | ASTM D6637 | 380 lbs/ft | 650 lbs/ft |
| Tensile Strength @ 5% ¹ | ASTM D6637 | 720 lbs/ft | 1200 lbs/ft |
| UV Resistance | ASTM D4355 | 100% | |
| Junction Efficiency ² | ASTM D7737 | 93% | |
| Flexural Stiffness ³ | | 450,000 mg-cm | |
| Aperture Stability ⁴ | | 0.58 m-N/deg | |
| Resistance to UV Degradation ⁵ | ASTM D4355 | 100% | |
| Rib Thickness | | 0.05 in | 0.05 in |
| Aperture Size | | 1.8 in | 2.5 in |
| Roll Size (width x length) | | 12.5 ft x 164 ft | |
| Roll Area | | 228 yds ² | |

¹True 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.

²Load transfer capability calculated as a % of ultimate tensile strength.

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

⁴Resistance 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.

⁵Tested according to ASTM D 4355.

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