



# ACF 1515BX

## Biaxial Geogrid for Paving and Reinforcement

# BX Series

## Technical Data Sheet

ACF 1515BX geogrid is composed of polypropylene resin which is extruded into a stable geogrid structure. ACF 1515BX geogrid is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

ACF 1515BX geogrid increases roadbed and foundation bearing capacity, while prolonging the service life of each by the confinement of the base course. ACF 1515BX prevents lateral spreading of the base or sub-base aggregate and allows for shear interaction to develop between the aggregate and the geogrid.

ACF 1515BX 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         | 1030 lbs/ft               | 1030 lbs/ft |
| Tensile Strength @ 2% <sup>1</sup>        | ASTM D6637         | 340 lbs/ft                | 340 lbs/ft  |
| Tensile Strength @ 5% <sup>1</sup>        | ASTM D6637         | 750 lbs/ft                | 750 lbs/ft  |
| UV Resistance                             | ASTM D4355         | 100%                      |             |
| Junction Efficiency <sup>2</sup>          | ASTM D7737         | 93%                       |             |
| Flexural Stiffness <sup>3</sup>           |                    | 325,000 mg-cm             |             |
| Aperture Stability <sup>4</sup>           |                    | 0.38 m-N/deg              |             |
| Resistance to UV Degradation <sup>5</sup> | ASTM D4355         | 100%                      |             |
| Rib Thickness                             |                    | 0.035 in                  | 0.025 in    |
| Aperture Size                             |                    | 1.5 in                    | 1.5 in      |
| Roll Size (width x length)                |                    | 12.5 ft x 328 ft          |             |
| Roll Area                                 |                    | 456 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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