



WINFAB® BX11 is a polypropylene geogrid product that is integrally formed into a biaxial geogrid.


WINFAB® BX11 resists ultraviolet deterioration, rotting, and biological degradation and is inert to commonly encountered soil chemicals.

PROPERTY	MARV ENGLISH	MARV METRIC
Aperture Dimensions ²	1.0 in x 1.3 in	25 mm x 33 mm
Minimum Rib Thickness ²	.03 in x .03 in	.76 mm x .76 mm
Ultimate Tensile Strength ³	850 x 1,300 lbs/ft	12.4 x 19 kN/m
Tensile Strength at 2% Strain ³	280 x 450 lbs/ft	4.1 x 6.6 kN/m
Tensile Strength at 5% Strain ³	580 x 920 lbs/ft	8.5 x 13.4 kN/m
Junction Efficiency ⁴	93%	93%
Flexural Stiffness ⁵	250,000 mg-cm	250,000 mg-cm
Aperture Stability ⁶	.32 m-N/deg	.32 m-N/deg
Resistance to Installation Damage ⁷	95%SC/93%SW/90%GP	95%SC/93%SW/90%GP
Resistance to Long Term Degradation ⁸	100%	100%
UV Resistance (500 Hours) ⁹	100%	100%

1. Unless notified otherwise, values shown are minimum average roll values determined in accordance with ASTM D4759-02. Brief descriptions of test procedures are given in the following notes.
2. Nominal dimensions.
3. True resistance to elongation when initially subjected to a load determined in accordance with ASTM D6637-01 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.
4. Load transfer capability determined in accordance with GRI-GG2-05 and expressed as a percentage of ultimate tensile strength.
5. Resistance to bending force determined in accordance with ASTM D5732-01, using specimens of width two ribs wide, with transverse ribs cut flush with exterior edges of longitudinal ribs (as a "ladder"), and of length sufficiently long to enable measurement of the overhang dimension.
6. Resistance to in-plane rotational movement measured by applying a 20 kg-cm (2 m-N) moment to the central junction of a 9 inch x 9 inch specimen restrained at its perimeter in accordance with the U.S. Army Corps of Engineers Methodology for measurement of Torsional Rigidity.
7. Resistance to loss of load capacity or structural integrity when subjected to mechanical installation stress in clayey sand (SC), well graded sand (SW), and crushed stone classified as poorly graded gravel (GP). The geogrid shall be sampled in accordance with ASTM D6637-01.
8. Resistance to loss of load capacity or structural integrity when subjected to chemically aggressive environments in accordance with EPA 9090 immersion testing.
9. Resistance to loss of load capacity or structural integrity when subjected to 500 hours of ultraviolet light and aggressive weathering in accordance with ASTM D4355-05.

PROPERTY	TEST METHOD	TYPICAL ENGLISH	TYPICAL METRIC
Roll Dimensions	Measured	12.9 ft x 246 ft	3.93 m x 75 m

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