

# PRODUCT SPECIFICATIONS



## Nilex DuraGrid BX4040 Biaxial Geogrid

Nilex DuraGrid BX4040 is an integrally formed Biaxial Geogrid made from extruded polypropylene. It is resistant to commonly encountered soil chemicals, mildew and insects and is non-biodegradable. Nilex DuraGrid BX4040 is manufactured at a facility that has achieved ISO 9001:2008 certification for its systematic approach to quality. The primary applications for this product include base reinforcement, road construction, and subgrade stabilization. Technical data are based on statistical analysis on 95% confidence limit.

PRODUCT PROPERTIES				
Index Properties	Test Method	Units	MD Values	XMD Values
<b>Aperture Dimensions</b>				
Aperture Dimensions	Nominal	mm (in)	33 (1.3)	33 (1.3)
Minimum Rib Thickness	Nominal	mm (in)	3 (0.12)	2.1 (0.08)
Tensile Strength @ 2% Strain	ASTM D6637	kN/m (lb/ft)	16 (1096)	16 (1096)
Tensile Strength @ 5% Strain	ASTM D6637	kN/m (lb/ft)	28 (1918)	28 (1918)
Ultimate Tensile Strength	ASTM D6637	kN/m (lb/ft)	40 (2740)	40 (2740)
<b>Structural Integrity</b>				
<b>Junction Efficiency</b>				
Junction Efficiency	ASTM D6637 & D7737	%	95	
Overall Flexural Stiffness	ASTM D7748	mg-cm	5,000,000	
Aperture Stability	ASTM D7864	m-N/deg	0.98	
<b>Durability</b>				
<b>Resistance to Installation Damage</b>				
Resistance to Installation Damage	ASTM D6637 & D5818	%SC / %SW / %GP	95 / 93 / 90	
Resistance to Long Term Degradation	EPA 9090	%	100	
Resistance to UV Degradation	ASTM D4355	%	100	
Carbon Black	ASTM D6103	%	2	
<b>Roll Dimensions</b>				
Roll Dimensions	Test Method	Units		
Standard Stocking Roll Size	Measured	3.93m (12.9')	50m (164')	
Special Order Roll Size	Measured	4.88m (16')	50m (164')	

### Notes

1. Unless indicated otherwise, values shown are Minimum Average Roll Values (MARV) in accordance with ASTM D4759
2. Nominal Dimensions.

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