

# Permagrid Biaxial Geogrid 4040

## Description:

Permagrid Biaxial Geogrid is manufactured from polypropylene and is produced by extrusion, punching and heating. It is then stretched both in the transverse and longitudinal directions.

## Performance:

High tensile strength in both transverse and longitudinal directions.

## Applications:

- Roads, railways, ports and other paved areas
- Airport runways
- Temporary roads and other unpaved areas
- Slope reinforcement
- Environmental protection of slopes
- Landfill Sites

## Benefits::

- Helps prevent cracks and subsidence
- Improvement of the bearing capacity of foundations
- Easy to install, reduces construction costs

Index Properties	Test Method	Units	MD Values	TD Values
Polymer			Polypropylene	
Minimum Carbon Black	ASTM D 4218	%	2	
Tensile Strength @ 2% strain	ASTM D 6637	kN/m	14	14
Tensile Strength @ 5% strain	ASTM D 6637	kN/m	28	28
Ultimate Tensile Strength	ASTM D 6637	kN/m	40	40
Strain @ Ultimate Strength	ASTM D 6637	%	13	13
<b>Structural Integrity</b>				
Junction Efficiency	GRI GG2	%	90	90
Flexural Rigidity	ASTM D 1388	mg-cm	11,480,000	
Aperture Stability	COE Method	mm-N/deg	2104	
<b>Dimensions</b>				
Aperture Dimensions		mm	34	34
Minimum Rib Thickness	ASTM D 1777	mm	2.1	1.6
Roll Width		m	3.95	
Roll Length		m	50	
Roll Weight		kg	96	