

# Permagrid Uniaxial Geogrid 80

## Description:

Permagrid Uniaxial Geogrid is manufactured from highest quality HDPE and is produced by extrusion and stretching in the longitudinal direction.

## Performance:

High tensile strength, excellent interlocking capacity and low creep deformation.

## Applications:

- Retaining walls reinforcement
- Steep slope reinforcement
- Embankment stabilisation
- Landfill Side slope reinforcement

## Specifications

Index Properties	Test Method	Units	MD Values
Polymer			HDPE
Minimum Carbon Black	ASTM D 4218	%	2
Tensile Strength @ 2% strain	ASTM D 6637	kN/m	23
Tensile Strength @ 5% strain	ASTM D 6637	kN/m	44
Ultimate Tensile Strength	ASTM D 6637	kN/m	80
Strain @ Ultimate Strength	ASTM D 6637	%	11.5
<b>Structural Integrity</b>			
Junction Efficiency	GRI GG2-87	%	93
Flexural Rigidity	ASTM D 1388	mg-cm	2,300,000
<b>Durability</b>			
UV Resistance	ASTM D 4355	%	98
Oxidation Resistance	EN ISO 13438	%	100
Brittleness	washDOT T926	-	Pass
<b>Reduction Factor</b>			
Reduction Factor for Creep, 114 year design life (RF <sub>cr</sub> )	ASTM D 5818	-	2.23
<b>Dimensions</b>			
Roll Width		m	1
Roll Length		m	50
Roll Weight		kg	27