

PROGRID® UG

Progrid UG Uniaxial Geogrids

DESCRIPTION

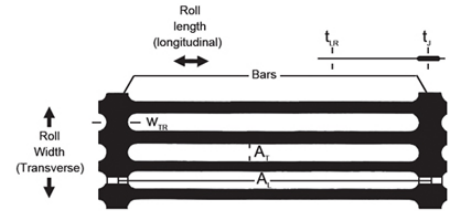
Progrid® UG Uniaxial Geogrids are high strength polymer grid structures that form an extremely efficient reinforcing by performing as a network of distributed anchors within a soil matrix.

Progrid® UG Uniaxial Geogrids are manufactured by a process of extruding, punching, heating and longitudinal stretching. Progrid® UG Uniaxial Geogrids are made of High Density Polyethylene and chemically inert, unaffected by the U.V. rays and fully resistant to aging in the soil environment.

Features of Progrid® UG Uniaxial Geogrids

- Resistance to biological degradation or attack
- Chemical resistance
- Weathering resistance from UV degradation through incorporating additive of carbon black
- Resistance to Environmental stress cracking.

Product Dimensions



Product	A _i	A _r	W _{rs}	t _r	t _i
UG60	420	12	18	1.0	2.7
UG80	460	12	18	1.2	3.3
UG120	460	12	18	1.9	5.2
UG160	460	12	18	2.3	6.2
UG180	460	12	18	2.5	6.4
UG200	460	12	18	2.6	6.5

*unit =mm

Specifications	TEST METHOD	UNIT	UG60	UG80	UG120	UG160	UG180	U200
Index Properties								
• Polymer	-	-	HDPE	HDPE	HDPE	HDPE	HDPE	HDPE
• Minimum Carbon Black	ASTM D 4218	%	2	2	2	2	2	2
• Tensile Strength @ 2% Strain	ASTM D 6637	kN/m	16	23	35	47	52	58
• Tensile Strength @ 5% Strain	ASTM D 6637	kN/m	31	44	65	93	104	116
• Ultimate Tensile Strength	ASTM D 6637	kN/m	60	80	120	160	180	200
• Strain @ Ultimate Strength	ASTM D 6637	%	11.5	11.5	11.5	11.5	11.5	11.5
• Junction Efficiency	GRI GG2-87	%	95	95	95	95	95	95
• Flexural Rigidity	ASTM D 1388	mg·cm	530,000	1,100,000	6,000,000	8,500,000	9,400,000	9,600,000
Durability								
• UV Resistance	ASTM D 4355	%	98	98	98	98	98	98
• Oxidation Resistance	EN ISO 13438	%	100	100	100	100	100	100
• Brittleness	WashDOT T926	-	Pass	Pass	Pass	Pass	Pass	Pass
Long Term Design Strength*								
For 60 yrs		kN/m	28.2	37.6	56.4	75.2	84.5	94.0
For 120 yrs		kN/m	26.9	36.0	53.8	71.8	81.0	90.0
Dimensions								
• Roll Width	-	m	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2
• Roll Length	-	m	100	50	50	50	50	50

* For 20^o coarse gravel (including creep, installation damage and environmental reduction factors)

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