

PYRAMID GRID™ 100

UNIAXIAL PET GEOGRID



Pyramid Grid™ is a uni-axial polyester (PET) geogrid manufactured with high molecular weight, high tenacity polyester yarns using a precision knitting process. This geogrid is dimensionally stable with uniform apertures that provide significant tensile reinforcement capacity in one direction. It is engineered to withstand both harsh construction conditions and aggressive soil environments, and is unaffected by soil micro-organisms. A black PVC saturation coating provides further chemical, mechanical and ultraviolet protection.

TESTED PROPERTY		TEST METHOD	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)
Ultimate Tensile Strength ⁽¹⁾	MD	ASTM D 6637	lbs/ft (kN/m)	6,854 (100)
Tensile Strength at 5% Strain ⁽¹⁾	MD	ASTM D 6637	lbs/ft (kN/m)	2,879 (42.0)
Strain at Ultimate ⁽²⁾	MD	ASTM D 6637	%	< 13
Creep Reduced Strength ⁽¹⁾	MD	ASTM D 6992	lbs/ft (kN/m)	4,694 (68.49)
Long Term Design Strength ⁽¹⁾⁽³⁾ (Sand, silt & clay)	MD	GRI-GG4b	lbs/ft (kN/m)	4,065 (59.31)
Molecular Weight (min)		GRI-GG8	g/mol	31,000
Carboxyl End Group - CEG Count (max)		GRI-GG7	mMol/kg	25
TYPICAL ROLL DIMENSIONS				
Roll Width ⁽⁴⁾			ft (m)	8.2 (2.5) 16.40 (5.0)
Roll Length ⁽⁴⁾			ft (m)	164.04 (50.0)

NOTES:

(1) Minimum Average Roll Values (MARV) – calculated as (mean minus 2X standard deviation)

(2) Average.

(3) LTDS or $T_{AL} = T_{ult} / (RF_{creep} \times RF_{installation\ damage} \times RF_{durability})$ for sand, silt and clay, soil $D_{max} \leq 25mm$, $D_{50} < 0.2mm$. Reduction factor due to installation damage for other soil types is available on request

(4) Typical – Standard roll lengths are shown. The products may be fabricated to custom lengths to suite the contractor's requirements.

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