

Pyramid Grid™ is a uniaxial 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	UNIT	TEST METHOD	ENGLISH (METRIC)	VALUE ENGLISH (METRIC)
Ultimate Tensile Strength(1)	MD	ASTM D 6637	lbs/ft (kN/m)	3,427 (50)
Tensile Strength at 5% Strain(1)	MD	ASTM D 6637	lbs/ft (kN/m)	1,508 (22)
Strain at Ultimate(2)	MD	ASTM D 6637	%	<13
Creep Reduced Strength(1)	MD	ASTM D 5262	lbs/ft (kN/m)	2,347 (34.25)
Long Term Design Strength(1) (3) (Sand, silt and clay)	MD	GR1-GG4b	lbs/ft (kN/m)	2,032 (29.65)
Molecular Weight (min)		GR1-GG8	g/mol	31,000
Carboxyl End Group- CEG Count (Max)		GR1-GG7	mMol/kg	25
<b>TYPICAL ROLL DIMENSIONS</b>				
Roll Width(4)		minimum	ft (m)	8.2 (2.5) 16.40 (5.0)
Roll Length(4)		minimum	ft (m)	164.04 (50.0)

Notes:

(1) Minimum Average Roll Values (MARV) Values – Calculated as (Mean minus 2X standard deviation)

(2) Average

(3) LTDS or Tal = Tult/ (RFcreep X RF installation damage X RF durability) for sand, silt and clay, soil  
Dmax ≤25mm, D50 < 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 suit the contractor's requirements.

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TESTED PROPERTY		UNIT TEST METHOD	ENGLISH (METRIC)	VALUE ENGLISH (METRIC)
Ultimate Tensile Strength(1)	MD	ASTM D 6637	lbs/ft (kN/m)	4,798 (70)
Tensile Strength at 5% Strain(1)	MD	ASTM D 6637	lbs/ft (kN/m)	1,851 (27)
Strain at Ultimate(2)	MD	ASTM D 6637	%	<13
Creep Reduced Strength(1)	MD	ASTM D 5262	lbs/ft (kN/m)	3,036 (47.94)
Long Term Design Strength(1) (3) (Sand, silt and clay)	MD	GR1-GG4b	lbs/ft (kN/m)	2,846 (41.52)
Molecular Weight (min)		GR1-GG8	g/mol	31,000
Carboxyl End Group- CEG Count (Max)		GR1-GG7	mMol/kg	25
TYPICAL ROLL DIMENSIONS				
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Ultimate Tensile Strength(1)	MD	ASTM D 6637	lbs/ft (kN/m)	8,225 (120)
Tensile Strength at 5% Strain(1)	MD	ASTM D 6637	lbs/ft (kN/m)	3,290 (48)
Strain at Ultimate(2)	MD	ASTM D 6637	%	<13
Creep Reduced Strength(1)	MD	ASTM D 5262	lbs/ft (kN/m)	5,633 (82.19)
Long Term Design Strength(1) (3) (Sand, silt and clay)	MD	GR1-GG4b	lbs/ft (kN/m)	4,878 (71.17)
Molecular Weight (min)		GR1-GG8	g/mol	31,000
Carboxyl End Group- CEG Count (Max)		GR1-GG7	mMol/kg	25
TYPICAL ROLL DIMENSIONS				
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Roll Length(4)		minimum ft (m)		164.04 (50.0)

Notes:

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TESTED PROPERTY		UNIT TEST METHOD	ENGLISH (METRIC)	VALUE ENGLISH (METRIC)
Ultimate Tensile Strength(1)	MD	ASTM D 6637	lbs/ft (kN/m)	10,281 (150)
Tensile Strength at 5% Strain(1)	MD	ASTM D 6637	lbs/ft (kN/m)	3,495 (51)
Strain at Ultimate(2)	MD	ASTM D 6637	%	<13
Creep Reduced Strength(1)	MD	ASTM D 5262	lbs/ft (kN/m)	7,042 (102.73)
Long Term Design Strength(1) (3) (Sand, silt and clay)	MD	GR1-GG4b	lbs/ft (kN/m)	6,098 (88.96)
Molecular Weight (min)		GR1-GG8	g/mol	31,000
Carboxyl End Group- CEG Count (Max)		GR1-GG7	mMol/kg	25
<b>TYPICAL ROLL DIMENSIONS</b>				
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Roll Length(4)		minimum ft (m)		164.04 (50.0)

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Ultimate Tensile Strength(1)	MD	ASTM D 6637	lbs/ft (kN/m)	13,708 (200)
Tensile Strength at 5% Strain(1)	MD	ASTM D 6637	lbs/ft (kN/m)	4,798 (70)
Strain at Ultimate(2)	MD	ASTM D 6637	%	<13
Creep Reduced Strength(1)	MD	ASTM D 5262	lbs/ft (kN/m)	9,389 (136.98)
Long Term Design Strength(1) (3) (Sand, silt and clay)	MD	GR1-GG4b	lbs/ft (kN/m)	8,130 (118.61)
Molecular Weight (min)		GR1-GG8	g/mol	31,000
Carboxyl End Group- CEG Count (Max)		GR1-GG7	mMol/kg	25
TYPICAL ROLL DIMENSIONS				
Roll Width(4)		minimum ft (m)		8.2 (2.5) 16.40 (5.0)
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Ultimate Tensile Strength(1)	MD	ASTM D 6637	lbs/ft (kN/m)	17,135 (250)
Tensile Strength at 5% Strain(1)	MD	ASTM D 6637	lbs/ft (kN/m)	5,826 (85)
Strain at Ultimate(2)	MD	ASTM D 6637	%	<13
Creep Reduced Strength(1)	MD	ASTM D 5262	lbs/ft (kN/m)	11,736 (171.23)
Long Term Design Strength(1) (3) (Sand, silt and clay)	MD	GR1-GG4b	lbs/ft (kN/m)	10,162 (148.26)
Molecular Weight (min)		GR1-GG8	g/mol	31,000
Carboxyl End Group- CEG Count (Max)		GR1-GG7	mMol/kg	25
TYPICAL ROLL DIMENSIONS				
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