

TerraGrid® SR18

Product Data Sheet

A GREEN Secondary Reinforcement and Soil Retention Biaxial Geogrid for Stabilized Earth Retaining Wall and Geogrid Reinforced Slopes

Woven, high tenacity polyester yarns comprise the strength components of **TerraGrid SR18** biaxial geogrid. The yarn substrate is coated with green polyvinyl chloride (PVC) to develop dimensional stability under tension and protect the product from U.V. and installation damage. **TerraGrid** geogrids are non-biodegradable and resistant to most soil chemicals, acids, and alkalis with a pH range of 5 to 8. **TerraGrid SR18** is manufactured to meet or exceed the following machine direction (MD) characteristics.

Tensile Properties	Procedure	Symbol	Value MD ^{1,2} x CMD ¹ lbs/ft	Value MD ^{1,2} x CMD ¹ kN/m
Ultimate Strength	ASTM D6637	T _{ult}	1,700 x 1400	24.8 x 20.4
Creep Limited Strength	ASTM D5262	T _I	1,076 x 886	15.7 x 12.9
Aperture Geometry			0.08 x 0.08 in	2.0 x 2.0 mm
Reduction Factors			Symbol	Factor
Durability			RF _D	1.10
Creep			RF _{CR}	1.58
Installation Damage: Soil Type 3: D ₁₀₀ ≤ 20 mm, D ₅₀ = 0.1 to 0.5 mm, PI < 20			RF _{ID}	1.10
Long Term Design Strength (LTDS or T_{al})³		Symbol	Value MD^{1,2} x CMD¹ lbs/ft	Value MD^{1,2} x CMD¹ kN/m
Soil Type 3: D ₁₀₀ ≤ 20 mm, D ₅₀ = 0.1 to 0.5 mm, PI < 20		T _{al}	889 x 732	12.9 x 10.7

Standard Packaging	Width	Length	Area	Width	Length	Area
	8 ft	150 ft	133.3 yd ²	2.43 m	45.7 m	111.5 m ²

Footnotes:

¹ Machine Direction (MD) strength (uniaxial strength) and Cross Machine Direction (CMD) strength

² Unless denoted otherwise, values represent Minimum Average Roll Values (MARVs) in the machine direction determined in accordance with ASTM D4759-02

³ LTDS or T_{al} = T_{ult} / (RF_D x RF_{CR} x RF_{ID})

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