

TerraGrid 90

TerraGrid® geogrids are made up of woven high tenacity polyester and coated with a polyvinyl chloride (PVC) coating. TerraGrid geogrids non-biodegradable and resistant to most soil chemicals, acids, and alkalis with a pH range of 5 to 8. TerraGrid 90 is manufactured to meet or exceed the following machine direction roll value requirements.

Property	Test Method	Units	Value
Design Properties			
Ultimate Strength ² -MD	ASTM D 6637	lbs/ft (kN/m)	9,000 (131.4)
Creep Limited Strength -MD	ASTM D 5262	lbs/ft (kN/m)	5,696 (83.2)
RF Installation Damage	Soil Type 3 D _{max} 20mm, PI≤20, D ₅₀ 0.1-0.5mm		1.05
RF Installation Damage	Soil Type 2 D _{max} 20mm, PI≤6, D ₅₀ ≤0.7mm		1.05
RF Installation Damage	Soil Type 1 D _{max} 100mm, PI≤6, D ₅₀ ≤30mm		1.50
RF Durability			1.10
RF Creep			1.58
LONG TERM DESIGN STRENGTH (LTDS or Tal)³			
Soil Type 3 D _{max} 20mm, PI≤20, D ₅₀ 0.1-0.5mm -MD		lbs/ft (kN/m)	4,932 (72.0)
Soil Type 2 D _{max} 20mm, PI≤6, D ₅₀ ≤0.7mm -MD		lbs/ft (kN/m)	4,932 (72.0)
Soil Type 1 D _{max} 100mm, PI≤6, D ₅₀ ≤30mm -MD		lbs/ft (kN/m)	3,452 (50.4)
Physical Properties	Roll Size	Width x Length Area	ft. (m) sq. yds. (sq.m.)
			12 x 150 (3.66 x 45.7) 200 (167.2)

**Roll sizes are available in 6-ft, 12-ft, 15-ft or 18-ft widths and/or custom roll lengths

1. Denotes machine direction strength (Uniaxial Strength)
2. Minimum Average Roll Values for machine direction unless otherwise noted (Lot Average minus 2 x Standard Deviation)
3. LTDS or Tal = Tult / (RF creep x RF installation damage x RF durability)
4. Roll Weights are average values including shipping cores. Actual roll weights may vary.
TerraGrid soil and segmental retaining wall unit interface properties are available upon request.
For Permanent walls the Tal needs to be factored for uncertainties; Typically RF uncertainties = 1.5