



**Mid-Atlantic
Erosion Control, Inc.**
704-483-1100

TerraGrid 80

Geogrids

TerraGrid geogrids are made up of woven high tenacity polyester and coated with a polyvinyl chloride (PVC) coating. TerraGrid geogrids are non-biodegradable and resistant to most soil chemicals, acids, and alkalis with a pH range of 3 to 12. TerraGrid 80 is manufactured to meet or exceed the following machine direction roll value requirements.

			English	Metric
			<u>lbs/ft</u>	<u>kN/m</u>
Tensile Properties				
Ultimate Strength	ASTM D 6637	Tult	7,400	108.4
Ultimate Strain at Failure	ASTM D 6637	εult	15%	15%
Creep Reduced Strength	ASTM D 5262	TI	4,774	69.9
Design Strength Properties				
Creep Reduction Factor	NCMA '97	RFCR	1.55	1.55
Aging / Durability Reduction Factor	NCMA '97	RFD	1.10	1.10
Installation Damage Reduction Factor	NCMA '97			
Soil Type 1 100mm Max, 30mm D50, PI<6		RFID	1.50	1.50
Soil Type 2 20mm Max, 0.7mm D50, PI<6		RFID	1.05	1.05
Soil Type 3 20mm Max, 0.1-0.5mm D50, PI<20		RFID	1.05	1.05
Long Term Design Strength				
	NCMA '97		<u>lbs/ft</u>	<u>kN/m</u>
Tult / (RFID for Soil Type 1 x RFD x RFCR)		LTDS	2,893	42.3
Tult / (RFID for Soil Type 2 x RFD x RFCR)		LTDS	4,133	60.5
Tult / (RFID for Soil Type 3 x RFD x RFCR)		LTDS	4,133	60.5
Design Interaction Properties				
Coefficient of Interaction	GRI – GG5			
Soil Type 1 100mm Max, 30mm D50, PI<6		CI	0.75	0.75
Soil Type 2 20mm Max, 0.7mm D50, PI<6		CI	0.85	0.85
Soil Type 3 20mm Max, 0.1-0.5mm D50, PI<20		CI	0.80	0.80
Coefficient of Direct Sliding				
	ASTM D-5321			
Soil Type 1 100mm Max, 30mm D50, PI<6		Cds	0.65	0.65
Soil Type 2 20mm Max, 0.7mm D50, PI<6		Cds	0.90	0.90
Soil Type 3 20mm Max, 0.1-0.5mm D50, PI<20		Cds	0.85	0.85
Physical Properties				
Aperture			.87in x .98 in	22mm x 25mm
Roll Size			12 ft x 150 ft	3.66 m x 45.7m