



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

TerraGrid 20

Geogrids

TerraGrid geogrids are made up of woven high tenacity polyester and coated with a polyvinyl chloride (PVD) coating. TerraGrid geogrids are non-biodegradable and resistant to most soil chemicals, acids and alkalis with a pH range of 3 to 12. TerraGrid 20 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	1,940	28.4
Ultimate Strain at Failure	ASTM D 6637	ϵ_{ult}	14.4%	14.0%
Creep Reduced Strength	ASTM D 5262	TI	1,269	18.6
Design oStrength Properties				
Creep Reduction Factor	NCMA 97	RFCR	1.54	1.54
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	1.73	1.73
Soil Type 2	20mm Max, 0.7mm D50, PI<6	RFID	1.10	1.10
Soil Type 3	20mm Max, 0.1-0.5mm D50, PI<20	RFID	1.10	1.10
Long Term Design Strength			lbs/ft	kN/m
Tult / (RFID for Soil Type 1 x RFD x RFCR)	NCMA 97	LTDS	662	9.7
Tult / (RFID for Soil Type 2 x RFD x RFCR)		LTDS	1,041	15.2
Tult / (RFID for Soil Type 3 x RFD x RFCR)		LTDS	1,041	15.2
Design Interaction Properties				
Coefficient of Interaction	GRI-GG5 '91			
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	0.80	0.80
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	0.70	0.70
Soil Type 2	20mm Max, 0.7mm D50, PI<6	Cds	0.80	0.80
Soil Type 3	20mm Max, 0.1-0.5mm D50, PI<20	Cds	0.80	0.80
Physical Properties				
Aperture			.98in x .79in	25mm x 20mm
Roll Size			12 ft x 150 ft	3.66 m x 45.7m