



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

TerraGrid 55

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 55 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	4,670	68.38
Ultimate Strain at Failure	ASTM D 6637	ϵ_{ult}	15%	15%
Creep Reduced Strength	ASTM D 5262	TI	3,032	44.4
Design Strength 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	1.55	1.55
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	1,779	26.0
Tult / (RFID for Soil Type 2 x RFD x RFCR)		LTDS	2,625	38.4
Tult / (RFID for Soil Type 3 x RFD x RFCR)		LTDS	2,625	38.4
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	0.85	0.85
Soil Type 3 20mm Max, 0.1-0.5mm D50, PI<20		Cds	0.80	0.80
Physical Properties				
Aperture			.87in x .98 in	22mm x 25mm
Roll Size			12 ft x 150 ft	3.66 m x 45.7m