



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

# TerraGrid 110

## 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 110 is manufactured to meet or exceed the following machine direction roll value requirements.

			English <u>lbs/ft</u>	Metric <u>kN/m</u>
<b>Tensile Properties</b>				
Ultimate Strength	ASTM D 6637	Tult	<b>10,250</b>	<b>149.6</b>
Ultimate Strain at Failure	ASTM D 6637	εult	<b>17.0%</b>	<b>17.0%</b>
Creep Reduced Strength	ASTM D 5262	TI	<b>6,500</b>	<b>94.9</b>
<b>Design Strength Properties</b>				
Creep Reduction Factor	NCMA '97	RFCR	<b>1.57</b>	<b>1.57</b>
Aging / Durability Reduction Factor	NCMA '97	RFD	<b>1.10</b>	<b>1.10</b>
Installation Damage Reduction Factor	NCMA '97			
Soil Type 1 100mm Max, 30mm D50, PI<6		RFID	<b>1.40</b>	<b>1.40</b>
Soil Type 2 20mm Max, 0.7mm D50, PI<6		RFID	<b>1.05</b>	<b>1.05</b>
Soil Type 3 20mm Max, 0.1-0.5mm D50, PI<20		RFID	<b>1.05</b>	<b>1.05</b>
<b>Long Term Design Strength</b>				
	NCMA '97		<u>lbs/ft</u>	<u>kN/m</u>
Tult / (RFID for Soil Type 1 x RFD x RFCR)		LTDS	<b>4,089</b>	<b>59.7</b>
Tult / (RFID for Soil Type 2 x RFD x RFCR)		LTDS	<b>5,653</b>	<b>82.5</b>
Tult / (RFID for Soil Type 3 x RFD x RFCR)		LTDS	<b>5,653</b>	<b>82.5</b>
<b>Design Interaction Properties</b>				
Coefficient of Interaction	GRI – GG5			
Soil Type 1 100mm Max, 30mm D50, PI<6		CI	<b>0.75</b>	<b>0.75</b>
Soil Type 2 20mm Max, 0.7mm D50, PI<6		CI	<b>0.85</b>	<b>0.85</b>
Soil Type 3 20mm Max, 0.1-0.5mm D50, PI<20		CI	<b>0.80</b>	<b>0.80</b>
<b>Coefficient of Direct Sliding</b>				
	ASTM D-5321			
Soil Type 1 100mm Max, 30mm D50, PI<6		Cds	<b>0.65</b>	<b>0.65</b>
Soil Type 2 20mm Max, 0.7mm D50, PI<6		Cds	<b>0.90</b>	<b>0.90</b>
Soil Type 3 20mm Max, 0.1-0.5mm D50, PI<20		Cds	<b>0.85</b>	<b>0.85</b>
<b>Physical Properties</b>				
Aperture			<b>.79in x .98 in</b>	<b>21mm x 25mm</b>
Roll Size			<b>12 ft x 150 ft</b>	<b>3.66 m x 45.7m</b>