



TERRAGRID 65

Geogrids

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 3 to 12. **TerraGrid 65** 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	T_{ult}	6,000	87.9
Ultimate Strain at Failure	ASTM D 6637	ϵ_{ult}	15.0%	15.0%
Creep Reduced Strength	ASTM D 5262	T_I	3,871	56.7

Design Strength Properties

Creep Reduction Factor	NCMA 97	RF_{CR}	1.55	1.55
Aging / Durability Reduction Factor	NCMA 97	RF_D	1.10	1.10
Installation Damage Reduction Factor	NCMA 97			
Soil Type 1	100mm Max, 30mm D_{50} , PI<6	RF_{ID}	1.55	1.55
Soil Type 2	20mm Max, 0.7mm D_{50} , PI<6	RF_{ID}	1.05	1.05
Soil Type 3	20mm Max, 0.1-0.5mm D_{50} , PI<20	RF_{ID}	1.05	1.05

Long Term Design Strength

		NCMA 97	<u>lbs/ft</u>	<u>kN/m</u>
$T_{ult} / (RF_{ID} \text{ for Soil Type 1 } \times RF_D \times RF_{CR})$			2,270	33.2
$T_{ult} / (RF_{ID} \text{ for Soil Type 2 } \times RF_D \times RF_{CR})$			3,351	49.0
$T_{ult} / (RF_{ID} \text{ for Soil Type 3 } \times RF_D \times RF_{CR})$			3,351	49.0

Design Interaction Properties

		GRI-GG5 '91		
Soil Type 1	100mm Max, 30mm D_{50} , PI<6		C_I	0.75
Soil Type 2	20mm Max, 0.7mm D_{50} , PI<6		C_I	0.80
Soil Type 3	20mm Max, 0.1-0.5mm D_{50} , PI<20		C_I	0.80

Coefficient of Direct Sliding

		ASTM D 5321		
Soil Type 1	100mm Max, 30mm D_{50} , PI<6		C_{ds}	0.70
Soil Type 2	20mm Max, 0.7mm D_{50} , PI<6		C_{ds}	0.85
Soil Type 3	20mm Max, 0.1-0.5mm D_{50} , PI<20		C_{ds}	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

7/01/08 NCMA

815 Buxton Street Winston Salem, NC 27101
 888 - 239 - 4539 • Fax: 336 - 747 - 1652
 www.hanesgeo.com info@hanesgeo.com