

# TerraGrid Geogrids

Based on GRI-GG4b '91 Criteria



Property	Symbol	Method	TerraGrid 20	TerraGrid 35	TerraGrid 55	TerraGrid 65	TerraGrid 80	TerraGrid 90	TerraGrid 110	
Note: All geogrids woven PET with PVC Coatings										
<b>Tensile Properties</b>			LBS/FT	LBS/FT	LBS/FT	LBS/FT	LBS/FT	LBS/FT	LBS/FT	
MD - Ultimate Strength	Tult	ASTM D-6637	1,940	3,435	4,670	6,000	7,400	8,500	10,250	
MD - Ultimate Strain at Failure	%	ASTM D-6637	14.4%	14%	15%	15%	15%	15%	17%	
MD - Creep Reduced Strength	TI	ASTM D-5262	1,269	2,230	3,032	3,871	4,774	5,483	6,500	
<b>DESIGN STRENGTH PROPERTIES</b>										
CREEP Reduction Factor(ed=10'	RFCR	GRI-GG4b '91	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
AGING/DURABILITY Reduction Factor 5<soil PH<8	RFD	GRI-GG4b '91	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
INSTALLATION DAMAGE Reduction Factor 1:100mm Max, 30mm D50, PI<6	RFID	GRI-GG4b '91	1.73	1.63	1.55	1.55	1.5	1.5	1.4	
2:20mm Max, 0.7mm D50, PI<6	RFID	GRI-GG4b '91	1.1	1.08	1.05	1.05	1.05	1.05	1.05	
3:20mm Max, .1-.5mmD50, PI<20	RFID	GRI-GG4b '91	1.1	1.08	1.05	1.05	1.05	1.05	1.05	
Tult / RF for Soil Type 1: =	LTDS	GRI-GG4b '91	600	1,127	1,611	2,070	2,638	3,179	4,089	
Tult / RF for Soil Type 2: =	LTDS	GRI-GG4b '91	943	1,701	2,378	3,056	3,769	4,329	5,220	
Tult / RF for Soil Type 3: =	LTDS	GRI-GG4b '91	943	1,701	2,378	3,056	3,769	4,329	5,220	
<b>DESIGN INTERACTION PROPERTIES</b>			From tests & tech. literature; $C_i \tan \phi = F^* \alpha$ & $C_{ds} \tan \phi = \tan \rho$ in AASHTO '98							
Coefficient of Interaction:	Ci	GRI-GG5 '91	Ci	Ci	Ci	Ci	Ci	Ci	Ci	
Coefficient of Direct Sliding:	Cds	ASTM D-5321	Cds	Cds	Cds	Cds	Cds	Cds	Cds	
Soil Type 1:			0.75	0.7	0.75	0.7	0.75	0.65	0.75	0.65
Soil Type 2:			0.8	0.8	0.8	0.85	0.85	0.9	0.85	0.9
Soil Type 3:			0.8	0.8	0.8	0.8	0.8	0.85	0.8	0.85
<b>PHYSICAL PROPERTIES</b>			US	US	US	US	US	US	US	
MD - Aperture Size:	(ins.)	measured	0.98	0.91	0.87	0.87	0.87	0.83	0.79	
CMD - Aperture Size:	(ins.)	measured	0.79	0.98	0.98	0.98	0.98	0.98	0.98	

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