

TerraGrid Geogrids



Based on NCMA 97 Criteria

Property	Symbol	Method	TerraGrid 20	TerraGrid 35	TerraGrid 55	TerraGrid 65	TerraGrid 80	TerraGrid 90	TerraGrid 110	TerraGrid 350				
Note: All geogrids woven PET with PVC Coatings														
Tensile Properties			LBS/FT	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	27,390				
MD - Ultimate Strain at Failure	%	ASTM D-6637	14.4%	14%	15%	15%	15%	15%	17%	14%				
MD - Creep Reduced Strength	TI	ASTM D-5262	1,269	2,230	3,032	3,871	4,774	5,483	6,500	17,445				
DESIGN STRENGTH PROPERTIES														
CREEP Reduction Factor(ed=10')	RFCR	NCMA 97	1.54	1.54	1.54	1.55	1.55	1.55	1.57	1.57				
AGING/DURABILITY Reduction Factor 5<soil PH<8	RFD	NCMA 97	1.1	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	NCMA 97	1.73	1.63	1.55	1.55	1.5	1.5	1.4	1.4				
2:20mm Max, 0.7mm D50, PI<6	RFID	NCMA 97	1.1	1.08	1.05	1.05	1.05	1.05	1.05	1.05				
3:20mm Max, .1-.5mmD50, PI<20	RFID	NCMA 97	1.1	1.08	1.05	1.05	1.05	1.05	1.05	1.05				
Tult / RF for Soil Type 1: =	LTDS	NCMA 97	662	1,244	1,779	2,270	2,893	3,179	4,089	14,231				
Tult / RF for Soil Type 2: =	LTDS	NCMA 97	1,041	1,878	2,626	3,351	4,134	4,748	5,653	15,105				
Tult / RF for Soil Type 3: =	LTDS	NCMA 97	1,041	1,878	2,626	3,351	4,134	4,748	5,653	15,105				
DESIGN INTERACTION PROPERTIES			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	Ci				
Coefficient of Direct Sliding:	Cds	ASTM D-5321	Cds	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	0.75	0.65		
Soil Type 2:			0.8	0.8	0.8	0.8	0.85	0.85	0.9	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	0.8	0.85	0.8	0.85
PHYSICAL PROPERTIES			US	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	0.43				
CMD - Aperture Size: (ins.)	measured		0.79	0.98	0.98	0.98	0.98	0.98	0.98	1.02				

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