

TerraGrid Geogrids

Based on AASHTO '01 & FHWA 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	AASHTO '01	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	AASHTO '01	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
INSTALLATION DAMAGE Reduction Factor										
1:100mm Max, 30mm D50, PI<6	RFID	AASHTO '01	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	AASHTO '01	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
3:20mm Max, .1-.5mmD50, PI<20	RFID	AASHTO '01	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Tult / RF for Soil Type 1: =	LTDS	AASHTO '01	633	1,190	1,701	2,172	2,768	3,179	4,089	14,231
Tult / RF for Soil Type 2: =	LTDS	AASHTO '01	996	1,763	2,397	3,060	3,774	4,335	5,161	13,791
Tult / RF for Soil Type 3: =	LTDS	AASHTO '01	996	1,763	2,397	3,060	3,774	4,335	5,161	13,791
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 0.7	0.75 0.65	0.75 0.65	0.75 0.65	0.75 0.65	0.75 0.65
Soil Type 2:			0.8 0.8	0.8 0.8	0.8 0.85	0.85 0.9	0.85 0.9	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 0.8	0.8 0.85	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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