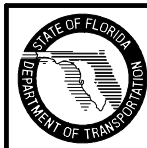


GENERAL NOTES

1. All Designs shall meet the requirements shown on this sheet and the contract documents.
2. $T_a = \frac{T_{ult}}{RF_c RF_d RF_j CRF}$
3. Intermediate reinforcement shall be rolled out parallel to slope face.

GEOSYNTHETIC REINFORCED SOIL SLOPES

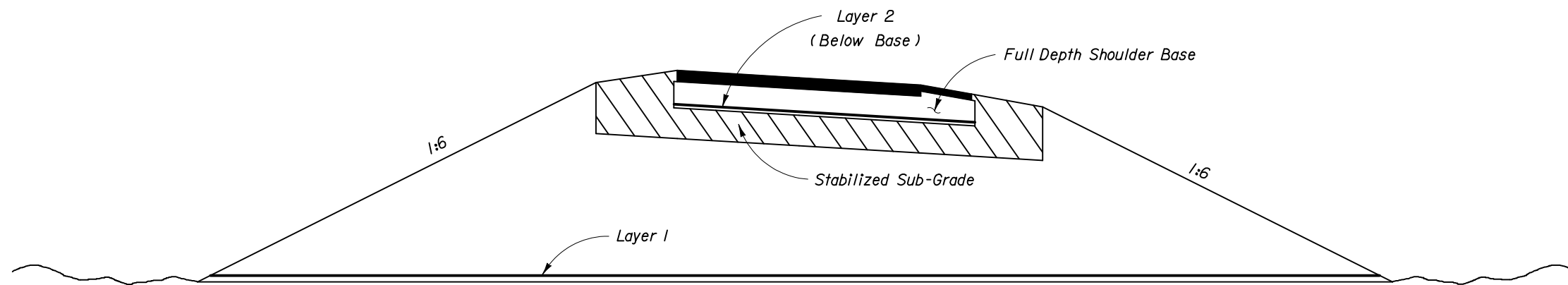


2006 FDOT Design Standards

GEOSYNTHETIC REINFORCED SOILS

Last Revision
04 Sheet No.
1 of 9

Index No.
501



REINFORCED EMBANKMENT



GEOSYNTHETIC REINFORCED FOUNDATIONS CONSTRUCTED ON SOFT SOILS



TABLE OF WOVEN GEOTEXTILE VALUES

PROPERTY	REQUIRED TEST METHOD	MIRAFI GEOLON HP 370	MIRAFI GEOLON HP 470	MIRAFI GEOLON HP 570	MIRAFI GEOLON HP 670	MIRAFI GEOLON HP 770	MIRAFI GEOLON HS 400	MIRAFI GEOLON HS 600	MIRAFI GEOLON HS 800	MIRAFI GEOLON HS 1150	
Permittivity (0.05 sec ⁻¹ Min.)	ASTM D 4491	0.52	0.20	0.40	0.50	0.23	0.026	0.32	0.20	0.32	
UV Stability (Min. Retained Strength @ 500 hr.)	ASTM D 4355	70%	70%	70%	70%	70%	70%	70%	70%	70%	
Burst Strength (psi)	GRI & GSI	800	1,200	1,200	1,200	1,200	—	—	—	—	
Grab Strength (lb)	ASTM D 4632	400 x 250	380 x 350	475 x 440	650 x 450	600 x 550	—	—	—	—	
A.O.S. (In)	ASTM D 4751	0.0236	0.0335	0.0236	0.0335	0.0236	0.0118	0.0335	0.0335	0.0236	
Tensile Strength (lb/ft)											
Machine Direction	Ultimate	3,240	3,600	4,800	6,420	7,200	4,800	7,200	9,600	13,800	
	2% Strain	540	900	960	1,080	1,080	—	—	—	—	
	5% Strain	1,356	1,800	2,400	2,700	3,000	1,080	2,040	3,600	4,800	
Cross Direction	Ultimate	2,700	3,600	4,800	4,800	4,800	4,800	3,600	3,600	3,600	
	2% Strain	540	1,200	1,320	1,200	1,320	—	—	—	—	
	5% Strain	1,356	1,800	2,400	2,700	2,400	2,400	—	—	—	
Strain @ Ultimate Tensile Strength (lb/ft)		14%	10%	10%	14%	12%	15%	15%	10%	12%	
Secant Modulus @	2% Strain	27,000	45,000	48,000	54,000	54,000	—	—	—	—	
	5% Strain	27,120	36,000	48,000	54,000	60,000	21,600	40,800	72,000	96,000	
	10% Strain	24,000	36,000	48,000	54,000	66,000	33,600	57,600	96,000	120,000	
Seam Breaking Strength (lb/ft)	ASTM D 4884	1,440	1,800	3,000	3,600	1,200	2,400	2,400	2,400	2,400	
Puncture Resistance (lb)	ASTM D 4833	180	170	190	200	220	—	—	—	—	
Tear Strength (lb)	Machine Direction	ASTM D 4833	180	130	180	250	250	—	—	—	
	Cross Direction	ASTM D 4833	110	200	180	200	400	—	—	—	
Soil-Geosynthetic Friction	GRI & G65, G77	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	
Creep Resistance-T _{creep} (lb/ft)	ASTM D 5262	—	—	—	—	—	2,880	4,320	5,760	8,280	
Creep Reduction Factor (T _{ult} /T _{creep})	GRI & G63 & G75	5.0	5.0	5.0	5.0	5.0	1.67	1.67	1.67	1.67	
Installation Damage (RF _C)	Sand	GRI & G64 & G77	1.25	1.25	1.15	1.15	1.15	1.3	1.25	1.2	1.15
	Limestone		1.5	1.5	1.35	1.35	1.35	5	3.5	1.85	1.7
Durability (RF _D)	Chemical	ASTM D 5322	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
	Biological	ASTM D1987, D3083, G21 & G22	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Joint Strength (RF _J)	Mechanical	ASTM D 4595, GRI & G64 & G77	—	—	—	—	—	—	—	—	
	Overlap *	GRI & G65 & G76	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Approved Application Usage		3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	

Approved Application Usage: 1 = Steepened Slopes
 2 = Reinforcement of Foundations over Soft Soils
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* Minimum 3' Overlap

**APPROVED GEOSYNTHETIC PRODUCTS
 (WOVEN GEOTEXTILES)
 APPLICATION AND PROPERTIES**



2006 FDOT Design Standards

GEOSYNTHETIC REINFORCED SOILS

Last Revision: 07/01/05
 Sheet No. 3 of 9
 Index No. 501

TABLE OF WOVEN GEOTEXTILE VALUES

PROPERTY	REQUIRED TEST METHOD	MIRAFI GEOLON HS 1400	MIRAFI GEOLON HS 1715	MIRAFI GEOLON HS 2400	MIRAFI GEOLON HS 3000	MIRAFI GEOLON HS 3600	AMOCO 2006	AMOCO 2016	AMOCO 2044	COMTRAC 70/70										
Permittivity (0.05 sec ⁻¹ Min.)	ASTM D 4491	0.20	0.32	0.02	0.02	0.02	0.05	0.70	0.15	0.20										
UV Stability (Min. Retained Strength @ 500 hr.)	ASTM D 4355	70%	70%	70%	70%	70%	70%	70%	70%	70%										
Burst Strength (psi)	GRI : GSI	—	—	—	—	—	1,000	1,100	1,500	—										
Grab Strength (lb)	ASTM D 4632	—	—	—	—	—	315	315	600/500	—										
A.O.S. (In)	ASTM D 4751	0.0335	0.0335	0.0118	0.0118	0.0118	0.0167	0.0167	0.0236	0.0335										
Tensile Strength (lb/ft)	ASTM D 4595	—	—	—	—	—	—	—	—	—										
Machine Direction											Ultimate	16,800	20,580	28,800	36,000	43,200	2,100	2,400	4,800	16,800
											2% Strain	—	—	—	—	—	156	276	456	—
											5% Strain	6,000	8,400	14,400	18,000	21,600	564	744	1,452	6,000
Cross Direction											Ultimate	3,600	3,600	3,600	3,600	3,600	2,100	2,400	4,800	3,600
											2% Strain	—	—	—	—	—	576	660	1,380	—
	5% Strain	—	—	—	—	—	1,104	1,404	2,604	—										
Strain @ Ultimate Tensile Strength	ASTM D 4595	—	—	—	—	—	—	—	—	—										
Modulus @ (lb/ft)											14%	14%	10%	10%	10%	8%	8%	8%	14%	
											2% Strain	—	—	—	—	—	7,800	13,800	22,800	—
											5% Strain	120,000	168,000	288,000	360,000	432,000	11,280	14,880	29,040	120,000
10% Strain	120,000	162,000	288,000	360,000	432,000	10,440	12,480	31,200	120,000											
Seam Breaking Strength (lb/ft)	ASTM D 4884	2,400	2,400	3,600	3,600	3,600	—	—	—	2,400										
Puncture Resistance (lb)	ASTM D 4833	—	—	—	—	—	120	120	170	—										
Stitch Strength (lb)	Machine Direction	—	—	—	—	—	120	120	250	—										
	Cross Direction	—	—	—	—	—	120	120	250	—										
Soil-Geosynthetic Friction	GRI : GG5, GT7	0.9	0.9	0.9	0.9	0.9	0.65	0.65	0.65	0.9										
Creep Resistance - T _{creep} (lb/ft)	ASTM D 5262	10,080	12,348	17,280	21,600	21,600	600	685	1,371	—										
Creep Reduction Factor (T _{ult} / T _{creep})	GRI : GG3 & GT5	1.67	1.67	1.67	1.67	1.67	3.5	3.5	3.5	1.67										
Installation Damage (RF _i)	Sand	1.15	1.15	1.1	1.1	1.1	1.10	1.05	1.05	1.15										
	Limestone	1.5	1.35	1.25	1.25	1.25	1.20	1.20	1.10	1.5										
Durability (RF _d)	Chemical	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1										
	Biological	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0										
Joint Strength (RF _j)	Mechanical	—	—	—	—	—	—	—	—	—										
	Overlap *	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.0										
Approved Application Usage		3, 4	3, 4	3, 4	3, 4	3, 4	3	3	3	3										

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 APPLICATION AND PROPERTIES**



2006 FDOT Design Standards

GEOSYNTHETIC REINFORCED SOILS

Last Revision: 07/01/05
 Sheet No.: 4 of 9
 Index No.: 501

TABLE OF WOVEN GEOGRID VALUES

PROPERTY	REQUIRED TEST METHOD	MIRAFI MG 2XT	MIRAFI MG 3XT	MIRAFI MG 5XT (Matrex 30)	MIRAFI MG 7XT	MIRAFI MG 8XT	MIRAFI MG 10XT (Matrex 60)	MIRAFI MG 18XT (Matrex 90)	MIRAFI MG 20XT (Matrex 120)	MIRAFI MG 22XT (Matrex 180)	MIRAFI MG 24XT (Matrex 240)	
UV Stability (Min. Retained Strength @ 500 hr.)	ASTM D 4355	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	
Tensile Strength (lb/ft)	ASTM D 6637											
Machine Direction		Ultimate	2,000	2,800	3,590	4,350	6,230	8,300	9,360	12,420	17,760	25,380
		2% Strain	—	—	—	—	—	—	—	—	—	—
		5% Strain	1,200	1,056	1,740	2,160	2,520	3,120	4,400	5,340	7,140	10,020
Cross Direction		Ultimate	2,000	—	—	—	—	—	—	—	—	—
		2% Strain	—	—	—	—	—	—	—	—	—	—
	5% Strain	—	—	—	—	—	—	—	—	—	—	
Strain @ Ultimate Tensile Strength	ASTM D 6637	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	
Secant Modulus (lb/ft)		2% Strain	—	—	—	—	—	—	—	—	—	—
		5% Strain	—	21,120	34,800	43,200	50,400	62,400	88,800	106,800	142,800	200,400
		10% Strain	—	—	—	—	—	—	—	—	—	—
Junction Strength (lb/ft)	GRI # GG2	—	—	—	—	—	—	—	—	—	—	
Soil- Geosynthetic Friction	GRI # GG5, GT7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
Creep Resistance- T_{creep} (lb/ft)	ASTM D 5262	1,200	1,680	2,154	2,610	3,738	4,980	5,616	7,221	10,326	14,756	
Creep Reduction Factor (T_{ult} / T_{creep})	GRI # GG3 & GT5	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	
Installation Damage (RF _G)	Sand	1.25	1.20	1.15	1.15	1.15	1.1	1.1	1.1	1.1	1.1	
	Limestone	Not Permitted	1.75	1.3	1.3	1.3	1.25	1.25	1.25	1.25	1.25	
Durability (RF _D)	Chemical	ASTM D 5322	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
	Biological	ASTM D1987, D3083, G21 & G22	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Joint Strength (RF _J)	Mechanical	ASTM D 6637, GRI # GG4 & GT7	—	—	—	—	—	—	—	—	—	
	Overlap *	GRI # GG5 & GT6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
Approved Application Usage		3	3	3	3	3	3	3	3	3	3	

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 (WOVEN GEOGRIDS)
 APPLICATION AND PROPERTIES**



2006 FDOT Design Standards

GEOSYNTHETIC REINFORCED SOILS

Last Revision	Sheet No.
07/01/05	5 of 9
Index No.	
501	

TABLE OF WOVEN GEOGRID VALUES										
PROPERTY	REQUIRED TEST METHOD	SYNTEEN SF 11	SYNTEEN SF 12	SYNTEEN SF 20	SYNTEEN SF 35	SYNTEEN SF 40	SYNTEEN SF 50	SYNTEEN SF 55	SYNTEEN SF 80	SYNTEEN SF 110
UV Stability (Min. Retained Strength @ 500 hr.)	ASTM D 4355	70%	70%	70%	70%	70%	70%	70%	70%	70%
Tensile Strength (lb/ft)										
Machine Direction	Ultimate	2,388	2,388	1,672	2,627	3,050	3,731	3,774	5,583	7,462
	2% Strain	526	526	370	462	488	791	736	1,016	1,486
	5% Strain	990	1,042	670	725	970	922	1,159	1,273	1,684
Cross Direction	Ultimate	3,870	5,268	1,630	2,556	3,050	3,933	2,499	2,206	2,179
	2% Strain	578	797	370	399	430	630	604	882	1,274
	5% Strain	792	1,129	670	583	765	815	796	1,563	1,581
Strain @ Ultimate Tensile Strength		12.6%	13.0%	9.4%	14.1%	9.9%	14.2%	11.5%	13.9%	18.8%
Secant Modulus (lb/ft)	2% Strain	26,300	26,300	18,494	23,114	24,408	39,551	36,799	50,807	59,298
	5% Strain	15,840	20,840	13,397	14,499	19,404	18,432	23,174	25,459	33,712
	10% Strain	—	—	15,206	15,234	22,089	18,432	27,137	37,910	27,380
Junction Strength (lb/ft)	GRI : GG2	354	320	—	—	—	—	—	—	—
Soil- Geosynthetic Friction	GRI : GG5, GT7	1.0	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Creep Resistance- T_{creep} (lb/ft)	ASTM D 5262	—	—	1,005	1,523	1,525	2,201	2,265	3,482	4,029
Creep Reduction Factor (T_{ult} / T_{creep})	GRI : GG3 & GT5	—	—	1.66	1.73	2.00	1.70	1.67	1.75	2.02
Installation Damage (RF _G)	Sand	1.18	1.06	1.05	1.15	1.15	1.08	1.08	1.08	1.08
	Limestone	1.31	1.20	1.75	1.70	1.60	1.55	1.55	1.55	1.35
Durability (RF _D)	Chemical	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
	Biological	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Joint Strength (RF _J)	Mechanical	—	—	—	—	—	—	—	—	—
	Overlap *	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Approved Application Usage		3, 4, 5	3, 4, 5	3	3	3	3	3	3	3

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(WOVEN GEOGRID)
APPLICATION AND PROPERTIES**



2006 FDOT Design Standards

GEOSYNTHETIC REINFORCED SOILS

Last Revision	Sheet No.
07/01/05	6 of 9
Index No.	
501	

TABLE OF WOVEN GEOGRID VALUES							
PROPERTY	REQUIRED TEST METHOD	Raugrid 3/3	Raugrid 4/2	Raugrid 6/3	Raugrid 8/3	Raugrid 10/3	
UV Stability (Min. Retained Strength @ 500 hr.)	ASTM D 4355	95%	95%	95%	95%	95%	
Tensile Strength (lb/ft)	ASTM D 6637						
Machine Direction		Ultimate	2,233	2,843	4,350	5,288	6,590
		2% Strain	—	—	—	—	—
		5% Strain	712	767	1,444	1,465	1,582
Cross Direction		Ultimate	2,213	1,459	1,959	2,089	2,492
		2% Strain	—	—	—	—	—
	5% Strain	541	356	452	507	521	
Strain @ Ultimate Tensile Strength	ASTM D 6637	10.8%	11.8%	13.1%	12.2%	11.5%	
Secant Modulus @ 2% Strain (lb/ft)		—	—	—	—	—	
		5% Strain	—	—	—	—	
		10% Strain	—	—	—	—	
Junction Strength (lb/ft)	GRI # GG2	N/A	100%	100%	100%	100%	
Soil- Geosynthetic Friction	GRI # GG5, GT7	0.8	0.8	0.8	0.8	0.8	
Creep Resistance- T_{creep} (lb/ft)	ASTM D 5262	1,466	1,870	2,862	3,479	4,335	
Creep Reduction Factor (T_{ult} / T_{creep})	GRI # GG3 & GT5	1.52	1.52	1.52	1.52	1.52	
Installation Damage (RF _c)	Sand	GRI # GG4 & GT7	1.10	1.10	1.10	1.10	1.10
	Limestone		1.17	1.17	1.17	1.17	1.17
Durability (RF _d)	Chemical	ASTM D 5322	1.15	1.15	1.15	1.15	1.15
	Biological	ASTM D1987, D3083, G21 & G22	1.15	1.15	1.15	1.15	1.15
Joint Strength (RF _j)	Mechanical	ASTM D 6637, GRI # GG4 & GT7	—	—	—	—	—
	Overlap *	GRI # GG5 & GT6	—	—	—	—	—
Approved Application Usage		2, 5	2, 5	2, 5	2, 5	2, 5	

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(WOVEN GEOGRID)
APPLICATION AND PROPERTIES**



2006 FDOT Design Standards

GEOSYNTHETIC REINFORCED SOILS

Last Revision	Sheet No.
07/01/05	7 of 9
Index No.	
501	

TABLE OF EXTRUDED GEOGRID VALUES										
PROPERTY		REQUIRED TEST METHOD	TENSAR BX 4100	TENSAR BX 4200	TENSAR BX 1100	TENSAR BX 1120	TENSAR BX 1200	TENSAR BX 1220	TENSAR BX 1500	
UV Stability (Min. Retained Strength @ 500 hr.)		ASTM D 4355	90%	90%	90%	100%	90%	100%	90%	
Tensile Strength (lb/ft)										
Machine Direction	Ultimate	ASTM D 6637	860	1,270	850	850	1,315	1,315	1,790	
	2% Strain		240	370	280	280	410	410	580	
	5% Strain		480	705	580	580	810	810	1,200	
Cross Direction	Ultimate		875	1,370	1,300	1,300	1,975	1,975	2,055	
	2% Strain		300	500	450	450	670	670	685	
	5% Strain		635	960	920	920	1,360	1,360	1,370	
Strain @ Ultimate Tensile Strength			ASTM D 6637	10%	10%	10%	10%	10%	10%	10%
Secant Modulus @ (lb/ft)	2% Strain			11,995	18,506	14,000	14,000	20,500	20,500	29,000
	5% Strain			9,596	14,092	11,600	11,600	16,200	16,200	27,400
	10% Strain	—		—	—	—	—	—	—	
Junction Strength (lb/ft)		GRI # GG2	90%	90%	93%	93%	93%	93%	93%	
Soil-Geosynthetic Friction		GRI # GG5, GT7	—	0.95	0.90	0.90	0.90	0.90	0.90	
Creep Resistance- T_{creep} (lb/ft)		ASTM D 5262	250	420	180/280	180/280	255/555	255/555	470/575	
Creep Reduction Factor (T_{ult}/T_{creep})		GRI # GG3 & GT5	3.5	3.27	2.07	2.07	1.61	1.61	2.09	
Installation Damage (RF _C)	Sand	GRI # GG4 & GT7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
	Limestone		1.43	1.35	1.35	1.35	1.35	1.35	1.35	
Durability (RF _D)	Chemical	ASTM D 5322	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
	Biological	ASTM D1987, D3083, G21 & G22	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Joint Strength (RF _J)	Mechanical	ASTM D 6637, GRI # GG4 & GT7	—	—	—	—	—	—	—	
	Overlap *	GRI # GG5 & GT6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Approved Application Usage			3, 4, 5	3, 4, 5	3, 4, 5	3, 4, 5	3, 4, 5	3, 4, 5	3, 4, 5	

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(EXTRUDED GEOGRID)
APPLICATION AND PROPERTIES**



2006 FDOT Design Standards

GEOSYNTHETIC REINFORCED SOILS

Last Revision	Sheet No.
07/01/05	8 of 9
Index No.	
501	

TABLE OF EXTRUDED GEOGRID VALUES								
PROPERTY		REQUIRED TEST METHOD	TENSAR UX 1400 HS UX 1400 MSE UX MESA 3	TENSAR UX 1500 HS UX 1500 MSE UX MESA 4	TENSAR UX 1600 HS UX 1600 MSE UX MESA 5	TENSAR UX 1700 HS UX 1700 MSE UX MESA 6	TENAX MS 220	TENAX MS 330
UV Stability (Min. Retained Strength @ 500 hr.)		ASTM D 4355	90%	90%	90%	90%	85%	85%
Tensile Strength (lb/ft)								
Machine Direction	Ultimate	ASTM D 6637	4,790	7810	9,860	11,980	925	1,370
	2% Strain		1,100	1,850	2,330	2,740	300	418
	5% Strain		2,130	3,560	3,980	5,140	615	925
Cross Direction	Ultimate		—	—	—	—	1,400	2,100
	2% Strain		—	—	—	—	445	616
	5% Strain		—	—	—	—	890	1,340
Strain @ Ultimate Tensile Strength		ASTM D 6637	10%	10%	10%	10%	12%	12%
Secant Modulus @ (lb/ft)	2% Strain		55,000	92,500	116,500	137,000	15,000	20,900
	5% Strain		42,600	71,200	79,600	102,800	12,330	18,500
	10% Strain		—	—	—	—	—	—
Junction Strength (lb/ft)		GRI # GG2	90%	90%	90%	90%	835	1,230
Soil-Geosynthetic Friction		GRI # GG5, GT7	0.462	0.462	0.462	0.462	—	—
Creep Resistance- T_{creep} (lb/ft)		ASTM D 5262	1,970	3,000	3,960	4,975	—	—
Creep Reduction Factor (T_{ult}/T_{creep})		GRI # GG3 & GT5	2.43	2.60	2.49	2.41	5.0	5.0
Installation Damage (RF _c)	Sand	GRI # GG4 & GT7	1.0	1.0	1.0	1.0	3.0	3.0
	Limestone		1.20	1.20	1.20	1.20	3.0	3.0
Durability (RF _d)	Chemical	ASTM D 5322	1.0	1.0	1.0	1.0	2.0	2.0
	Biological	ASTM D1987, D3083, G21 & G22	1.0	1.0	1.0	1.0	2.0	2.0
Joint Strength (RF _j)	Mechanical	ASTM D 6637, GRI # GG4 & GT7	1.0	1.0	1.0	1.0	—	—
	Overlap *	GRI # GG5 & GT6	1.0	1.0	1.0	1.0	—	—
Approved Application Usage			3	3	3	3	2	2

Approved Application Usage: 1 = Steepened Slopes
2 = Reinforcement of Foundations over Soft Soils
3 = Both Steepened Slopes & Reinforcement of Foundations over Soft Soils
4 = Reinforced Embankment
5 = Construction Expedient

* Minimum 3' Overlap

**APPROVED GEOSYNTHETIC PRODUCTS
(EXTRUDED GEOGRID)
APPLICATION AND PROPERTIES**



2006 FDOT Design Standards

GEOSYNTHETIC REINFORCED SOILS

Last Revision	Sheet No.
07/01/05	9 of 9
Index No.	
501	