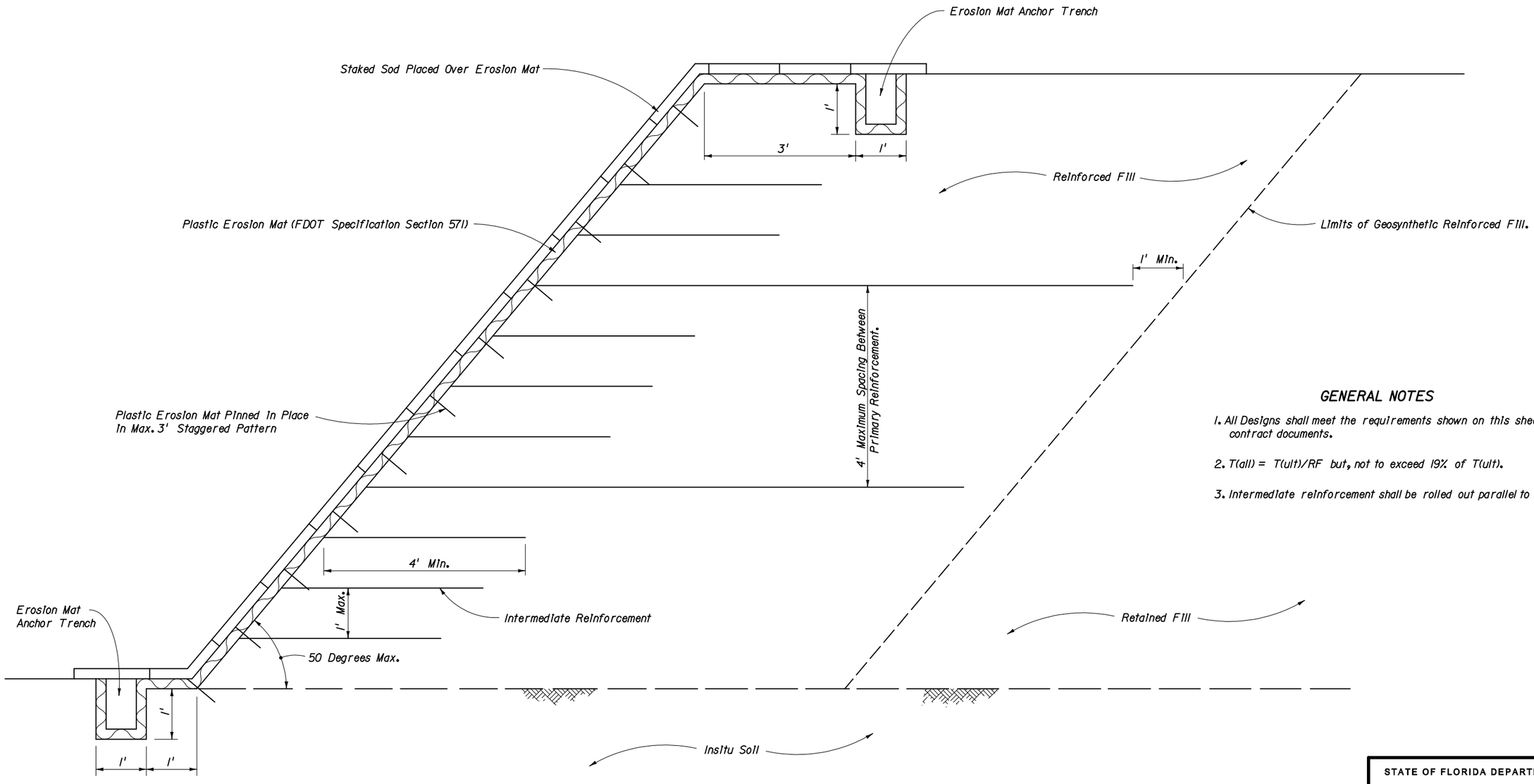

GENERAL NOTES

1. All Designs shall meet the requirements shown on this sheet and the contract documents.
2. T(all) = T(ult)/RF but, not to exceed 19% of T(ult).
3. Intermediate reinforcement shall be rolled out parallel to slope face.

GEOSYNTHETIC REINFORCED SOIL SLOPES

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

GEOSYNTHETIC REINFORCED SOILS

	Names	Dates
Designed By	PDP	07/99
Drawn By	SM	07/99
Checked By	PWL	08/99

Approved By W. L. Ph for State Geotechnical Engineer

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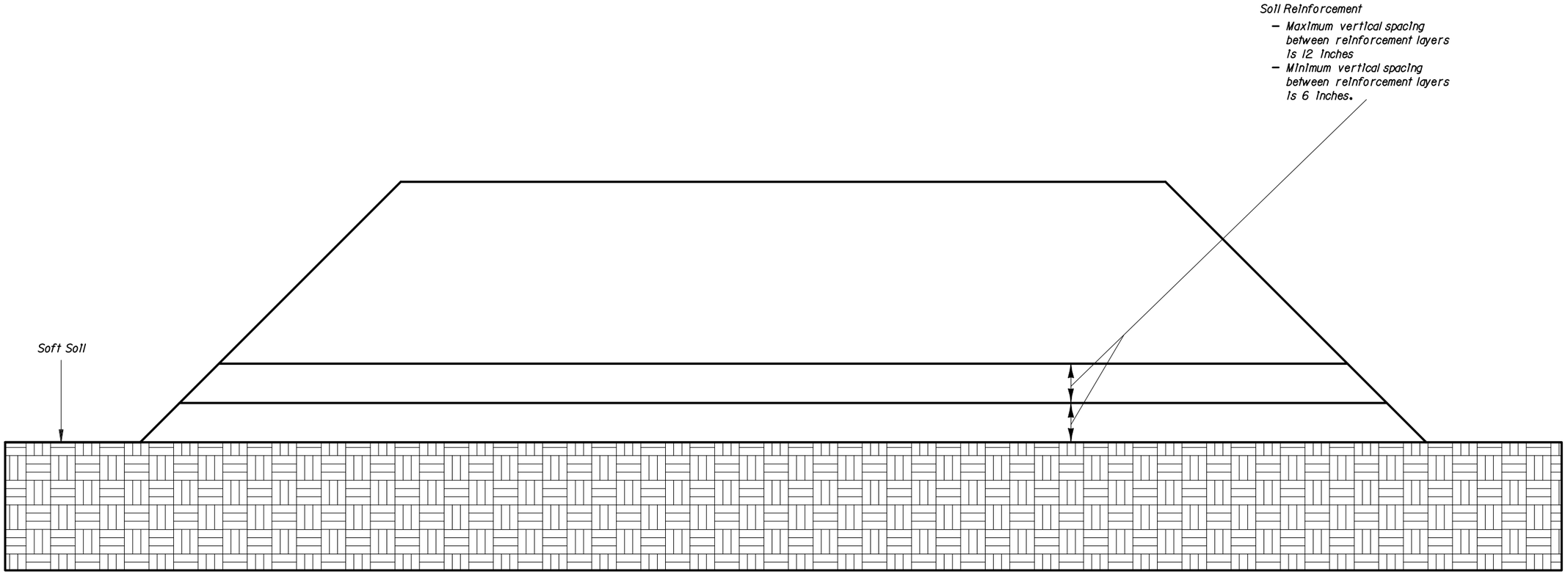

GEOSYNTHETIC REINFORCED FOUNDATIONS CONSTRUCTED ON SOFT SOILS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

GEOSYNTHETIC REINFORCED SOILS

	Names	Dates
Designed By	PDP	07/99
Drawn By	SM	07/99
Checked By	PDP	08/99

Approved By W. V. Stanton for
State Geotechnical Engineer

Revision	Sheet No.	Index No.
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TABLE OF WOVEN GEOTEXTILE VALUES

PROPERTY		REQUIRED TEST METHOD	MIRAFI HP 370	MIRAFI HP 470	MIRAFI HP 570	MIRAFI HP 670	MIRAFI HP 770	MIRAFI HS 400	MIRAFI HS 600	MIRAFI HS 800	MIRAFI 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 (Retained 50% Strength Min. @ 500 hr.)		ASTM D 4355	70%	70%	70%	70%	70%	70%	70%	70%	70%	
Burst Strength (psi)		GRI : GS1	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)		ASTM D 4595										
Machine Direction	Ultimate		3,240	3,600	4,800	6,420	7,200	4,800	7,200	9,600	13,800	
	2% Ultimate		540	900	960	1,080	1,080	———	———	———	———	
	5% Ultimate		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% Ultimate		540	1,200	1,320	1,200	1,320	———	———	———	———	
	5% Ultimate		1,356	1,800	2,400	2,700	2,400	2,400	———	———	———	
Strain @ Ultimate Tensile Strength (lb/ft)		ASTM D 4595	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 : GG5, GT7	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 : GG3 & GT5	5.0	5.0	5.0	5.0	5.0	1.67	1.67	1.67	1.67	
Installation Damage (RF_C)	Sand	GRI : GG4 & GT7	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	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 4595, GRI : GG4 & GT7	———	———	———	———	———	———	———	———	———	
	Overlap	GRI : GG5 & GT6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Approved Application Usage			3	3	3	3	3	3	3	3	3	

Approved Application Usage: 1 = Steepened Slopes
2 = Reinforcement of Foundations over Soft Soils
3 = Both Steepened Slopes & Reinforcement of Foundations over Soft Soils

APPROVED GEOSYNTHETIC PRODUCTS (WOVEN GEOTEXTILES) APPLICATION AND PROPERTIES

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

GEOSYNTHETIC REINFORCED SOILS

	Names	Dates
Designed By	PDP	07/99
Drawn By	PDP	08/99
Checked By	PWL	08/99

Approved By W. W. Hatt for State Geotechnical Engineer

Revision	Sheet No.	Index No.
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TABLE OF WOVEN GEOTEXTILE VALUES

PROPERTY		REQUIRED TEST METHOD	MIRIFI HS 1400	MIRIFI HS 1715	MIRIFI HS 2400	MIRIFI HS 3000	MIRIFI 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 (Retained 50% Strength Min. @ 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% Ultimate		———	———	———	———	———	156	276	456	———	
	5% Ultimate		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% Ultimate		———	———	———	———	———	576	660	1,380	———	
	5% Ultimate		———	———	———	———	———	1,104	1,404	2,604	———	
Strain @ Ultimate Tensile Strength		ASTM D 4595	14%	14%	10%	10%	10%	8%	8%	8%	14%	
Secant @ Modulus (lb/ft)	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	———	
Strength (lb)	Machine Direction	ASTM D 4833	———	———	———	———	———	120	120	250	———	
	Cross Direction	ASTM D 4833	———	———	———	———	———	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_c)	Sand	GRI : GG4 & GT7	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	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	
Joint Strength (RF_j)	Mechanical	ASTM D 4595, GRI : GG4 & GT7	———	———	———	———	———	———	———	———	———	
	Overlap	GRI : GG5 & GT6	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.0	
Approved Application Usage			3	3	3	3	3	3	3	3	3	

Approved Application Usage: 1 = Steepened Slopes
2 = Reinforcement of Foundations over Soft Soils
3 = Both Steepened Slopes & Reinforcement of Foundations over Soft Soils

APPROVED GEOSYNTHETIC PRODUCTS (WOVEN GEOTEXTILES) APPLICATION AND PROPERTIES

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

GEOSYNTHETIC REINFORCED SOILS

	Names	Dates
Designed By	PDP	07/99
Drawn By	PDP	08/99
Checked By	PWL	08/99

Approved By W. W. Hall for State Geotechnical Engineer

Revision	Sheet No.	Index No.
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TABLE OF WOVEN GEOGRID VALUES

PROPERTY		REQUIRED TEST METHOD	MIRIFI MG 2XT	MIRIFI MG 3XT	MIRIFI MG 5XT (Matrex 30)	MIRIFI MG 7XT	MIRIFI MG 8XT	MIRIFI MG 10XT (Matrex 60)	MIRIFI MG 18XT (Matrex 90)	MIRIFI MG 20XT (Matrex 120)	MIRIFI MG 22XT (Matrex 180)	MIRIFI MG 24XT (Matrex 240)
UV Stability (Retained 50% Strength Min. @ 500 hr.)		ASTM D 4355	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%
Tensile Strength (lb/ft)		ASTM D 4595										
Machine Direction	Ultimate		2,000	2,800	3,590	4,350	6,230	8,300	9,360	12,420	17,760	25,380
	2% Ultimate		———	———	———	———	———	———	———	———	———	———
	5% Ultimate		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% Ultimate		———	———	———	———	———	———	———	———	———	———
	5% Ultimate		———	———	———	———	———	———	———	———	———	———
Strain @ Ultimate Tensile Strength		ASTM D 4595	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	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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_C)	Sand	GRI : GG4 & GT7	1.25	1.20	1.15	1.15	1.15	1.1	1.1	1.1	1.1	1.1
	Limestone		Not Recommended	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	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	1.0
Joint Strength (RF_J)	Mechanical	ASTM D 4595, GRI : GG4 & GT7	———	———	———	———	———	———	———	———	———	———
	Overlap	GRI : GG5 & GT6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Approved Application Usage			3	3	3	3	3	3	3	3	3	3

Approved Application Usage: 1 = Steepened Slopes
2 = Reinforcement of Foundations over Soft Soils
3 = Both Steepened Slopes & Reinforcement of Foundations over Soft Soils

APPROVED GEOSYNTHETIC PRODUCTS (WOVEN GEOGRIDS) APPLICATION AND PROPERTIES

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

GEOSYNTHETIC REINFORCED SOILS

	Names	Dates
Designed By	PDP	07/99
Drawn By	PDP	08/99
Checked By	PWL	08/99

Approved By W. N. Watt for State Geotechnical Engineer

Revision	Sheet No.	Index No.
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TABLE OF WOVEN GEOGRID VALUES

PROPERTY		REQUIRED TEST METHOD	SYNTEEN SF 20	SYNTEEN SF 35	SYNTEEN SF 40	SYNTEEN SF 50	SYNTEEN SF 55	SYNTEEN SF 80	SYNTEEN SF 110	Raugrid 3/13	Raugrid 4/12	Raugrid 6/13	Raugrid 8/13	Raugrid 10/13
UV Stability (Retained 50% Strength Min. @ 500 hr.)		ASTM D 4355	70%	70%	70%	70%	70%	70%	70%	95%	95%	95%	95%	95%
Tensile Strength (lb/ft)		ASTM D 4595												
Machine Direction	Ultimate		1,809	2,627	3,051	3,731	3,774	5,583	8,126	2,233	2,843	4,350	5,288	6,590
	2% Ultimate		370	462	488	791	736	1,016	1,186	———	———	———	———	———
	5% Ultimate		670	725	970	922	1,159	1,273	1,684	712	767	1,144	1,165	1,582
Cross Direction	Ultimate		1,809	2,556	3,051	3,933	2,499	2,206	2,176	2,213	1,459	1,959	2,089	2,192
	2% Ultimate		370	399	488	791	604	882	1,274	———	———	———	———	———
	5% Ultimate		670	583	970	922	796	1,563	1,581	541	356	452	507	521
Strain @ Ultimate Tensile Strength		ASTM D 4595	9.4%	14.1%	9.9%	14.2%	11.5%	14.2%	18.8%	10.8%	11.8%	13.1%	12.2%	11.2%
Secant Modulus @ (lb/ft)	2% strain		18,494	23,114	24,408	39,551	36,799	50,807	59,298	———	———	———	———	———
	5% strain		13,397	14,499	19,404	18,432	23,174	25,459	33,676	———	———	———	———	———
	10% strain		15,206	15,234	22,089	18,432	27,137	37,910	27,380	———	———	———	———	———
Junction Strength (lb/ft)		GRI : GG2	———	———	———	———	———	———	———	N/A	617	1139	961	833
Soil- Geosynthetic Friction		GRI : GG5, GT7	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	3,182	4,026	1,469	1,870	2,862	3,479	4,335
Creep Reduction Factor (T_{ult} / T_{creep})		GRI : GG3 & GT5	1.80	1.72	2.00	1.70	1.67	1.75	2.02	1.52	1.52	1.52	1.52	1.52
Installation Damage (RF_C)	Sand	GRI : GG4 & GT7	1.05	1.15	1.15	1.08	1.08	1.08	1.08	1.10	1.10	1.10	1.10	1.10
	Limestone		1.75	1.70	1.60	1.55	1.55	1.55	1.35	1.14	1.14	1.14	1.14	1.14
Durability (RF_d)	Chemical	ASTM D 5322	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.15	1.15	1.15	1.15	1.15
	Biological	ASTM D1987, D3083, G21 & G22	1.10	1.10	1.10	1.10	1.10	1.10	1.10					
Joint Strength (RF_J)	Mechanical	ASTM D 4595, GRI : GG4 & GT7	———	———	———	———	———	———	———	———	———	———	———	———
	Overlap	GRI : GG5 & GT6	1.10	1.10	1.10	1.10	1.10	1.10	1.10	———	———	———	———	———
Approved Application Usage			3	3	3	3	3	3	3	3	3	3	3	3

Approved Application Usage: 1 = Steepened Slopes
2 = Reinforcement of Foundations over Soft Soils
3 = Both Steepened Slopes & Reinforcement of Foundations over Soft Soils

APPROVED GEOSYNTHETIC PRODUCTS (WOVEN GEOGRID) APPLICATION AND PROPERTIES

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

GEOSYNTHETIC REINFORCED SOILS

	Names	Dates
Designed By	PDP	07/99
Drawn By	PDP	08/99
Checked By	PWL	08/99

Approved By W. W. Hunt for State Geotechnical Engineer

Revision	Sheet No.	Index No.
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TABLE OF EXTRUDED GEOGRID VALUES

PROPERTY		REQUIRED TEST METHOD	TENSAR BX 4100	TENSAR BX 4120	TENSAR BX 4200	TENSAR BX 4220	TENSAR UX 900 HS	TENSAR UX 1100 HS	TENSAR UX 1400 HS	TENSAR UX 1500 HS	TENSAR UX 1600 HS	TENSAR UX 1700 HS
UV Stability (Retained 50% Strength Min. @ 500 hr.)		ASTM D 4355	———	90%	90%	90%	90%	90%	90%	90%	90%	90%
Tensile Strength (lb/ft)		ASTM D 4595										
Machine Direction	Ultimate		860	860	1,270	1,270	3,700	3,700	4,400	6,900	9,000	10,800
	2% Ultimate		240	240	370	370	840	840	1,000	1,800	2,330	2,740
	5% Ultimate		480	480	705	705	1,440	1,440	2,000	3,700	4,450	5,400
Cross Direction	Ultimate		875	875	1,370	1,370	———	———	———	———	———	———
	2% Ultimate		300	300	500	500	———	———	———	———	———	———
	5% Ultimate		635	635	960	960	———	———	———	———	———	———
Strain @ Ultimate Tensile Strength			———	———	———	———	10%	10%	10%	10%	10%	10%
Secant Modulus @ (lb/ft)	2% strain	ASTM D 4595	11,995	11,995	18,506	18,506	42,015	42,015	50,000	89,993	116,518	137,012
	5% strain		9,596	9,596	14,092	14,092	28,800	28,800	40,000	73,996	89,006	108,005
	10% strain		———	———	———	———	———	———	———	———	———	———
Junction Strength (lb/ft)		GRI : GG2	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%
Soil- Geosynthetic Friction		GRI : GG5, GT7	———	0.90	0.95	0.95	0.462	0.462	0.462	0.462	0.462	0.462
Creep Resistance-T_{creep} (lb/ft)		ASTM D 5262	250	250	420	420	900	1,350	1,850	2,800	3,700	4,650
Creep Reduction Factor (T_{ult} / T_{creep})		GRI : GG3 & GT5	3.5	3.5	3.27	3.27	4.12	3.65	2.381	2.46	2.43	2.33
Installation Damage (RF_C)	Sand	GRI : GG4 & GT7	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
	Limestone		1.43	1.43	1.35	1.35	1.25	1.25	1.20	1.20	1.20	1.20
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	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	1.0
Joint Strength (RF_J)	Mechanical	ASTM D 4595, GRI : GG4 & GT7	———	———	———	———	1.0	1.0	1.0	1.0	1.0	1.0
	Overlap	GRI : GG5 & GT6	1.0	1.0	1.0	1.0	———	1.0	1.0	1.0	1.0	1.0
Approved Application Usage			3	3	3	3	3	3	3	3	3	3

Approved Application Usage: 1 = Steepened Slopes
2 = Reinforcement of Foundations over Soft Soils
3 = Both Steepened Slopes & Reinforcement of Foundations over Soft Soils

APPROVED GEOSYNTHETIC PRODUCTS (EXTRUDED GEOGRID) APPLICATION AND PROPERTIES

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

GEOSYNTHETIC REINFORCED SOILS

	Names	Dates
Designed By	PDP	07/99
Drawn By	PDP	08/99
Checked By	PWL	08/99

Approved By W. L. Ward for State Geotechnical Engineer

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TABLE OF EXTRUDED GEOGRID VALUES

PROPERTY		REQUIRED TEST METHOD	TENAX MS 220	TENAX MS 330								
UV Stability (Retained 50% Strength Min. @ 500 hr.)		ASTM D 4355	85%	85%								
Tensile Strength (lb/ft)		ASTM D 4595										
Machine Direction	Ultimate		925	1,370								
	2% Ultimate		300	418								
	5% Ultimate		615	925								
Cross Direction	Ultimate		1,400	2,100								
	2% Ultimate		445	616								
	5% Ultimate		890	1,340								
Strain @ Ultimate Tensile Strength		ASTM D 4595	12%	12%								
Secant Modulus @ (lb/ft)	2% strain		15,000	20,900								
	5% strain		12,330	18,500								
	10% strain		———	———								
Junction Strength (lb/ft)		GRI : GG2	835	1,230								
Soil- Geosynthetic Friction		GRI : GG5, GT7	———	———								
Creep Resistance-T_{creep} (lb/ft)		ASTM D 5262	———	———								
Creep Reduction Factor (T_{ult} / T_{creep})		GRI : GG3 & GT5	5.0	5.0								
Installation Damage (RF_C)	Sand	GRI : GG4 & GT7	3.0	3.0								
	Limestone		3.0	3.0								
Durability (RF_d)	Chemical	ASTM D 5322	2.0	2.0								
	Biological	ASTM D1987, D3083, G21 & G22										
Joint Strength (RF_J)	Mechanical	ASTM D 4595, GRI : GG4 & GT7	———	———								
	Overlap	GRI : GG5 & GT6	———	———								
Approved Application Usage			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

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