

Woven or Extruded Geogrid - FDOT APL Data Form

Company and Contact Information													
App. Date:				Company Name:						Company Type:			
Contact:				E-mail:						Phone:			
Product Information													
Product Name:						Prod. Structure:							
Structural Type(s) Request: ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4 ☐ R-5						Material:				Axial Type:			
Specs 985 Physical Requirements (Test Results)													
Property Test Method				MARV/Design Value		Structural App. Type		Test Method					
UV Stability (Min. Retained Strength @ 500 hrs.)						R-3		ASTM D4355					
Aperture Size MD x XD (in x In)						R-1,2,3,4,5		-					
Tensile Strength (lbs/ft)	Machine Direction	2% Strain				R-1,3		ASTM D6637					
		5% Strain				R-2,3,4,5							
		10% Strain				R-1,2,3,4,5							
		Ultimate (T_{ult})											
		Strain @ T_{ult}											
	Cross Direction	2% Strain				R-1,3							
		5% Strain				R-2,3,4,5							
		10% Strain				R-1,2,3,4,5							
		Ultimate (T_{ult})											
		Strain @ T_{ult}											
Coefficient of Direct Sliding, C_{ds} (dim.)						R-1,2,3		ASTM D5321					
Coefficient of Interaction, C_i (dim.)						R-3		ASTM D6706					
Scale Correction Factor, α (dim.)						R-3							
Creep Reduction Factors (RF_{CR})		Creep-Rupture				R-2,3		ASTM D5262/D6992					
		2% Strain											
		5% Strain											
Installation Damage (RF_{ID})		Sand				R-2,3,4		AASHTO R69					
		Limestone											
Durability (RF_D)		-											
Joint Strength (RF_j)		Mechanical				R-2,3		GRI: GG4(a) & GG4(b)					
		Sewn											
Limitations/Notes				Structural Application									
Reduction factors for creep are based on a 100-year design life.				Type	Description								
				R-1	Geosynthetic Reinforced Soil (GRS-IBS)								
				R-2	Reinforcement of foundations over soft soils (FDM Ch.263)								
				R-3	Reinforced Soil Slopes (FDM, Ch.263)								
				R-4	Reinforced Embankment (SFH, App. E)								
				R-5	Construction Expedient								
Product Evaluation and Audit Solutions Program:								DataMine Number:					
Mnftr's. Technical Data Sheet Link:													