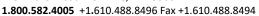


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Material and Performance Specification

ECSC-3™ Straw/Coconut Turf Reinforcement Mat

Description:

The ECSC-3™ is made with uniformly distributed 70% agricultural straw, 30% coconut fiber and three polypropylene nets securely sewn together with UV stabilized thread. The tightly compressed blankets are wrapped and include a product label, code and installation guide. The blankets are palletized for easy transportation. The ECSC-3™ is a permanent turf reinforcement mat and is suitable for 1:1 slopes and high-flow channels.

Matrix:	1 70% Straw			2			
			30	0% Coconut			
Netting:	Туре				Net Co	Net Color	
Тор:	Medium weight 8# PMSF UV Stabilized Polypropylene		Polypropylene		Blac	Black	
Middle:	Heavyweight 24# PMSI	F UV Stabilized P	olypropylene				
Bottom:	Medium weight 8# PM	SF UV Stabilized	Polypropylene				
Net Opening:	Тор			Middle	Botto	Bottom	
	0.5" x 0.5"		(0.4" x 0.5"	0.5" x (0.5" x 0.5"	
Thread:	ead: Type UV Stabilized Thread			Color			
				Black			
Roll Sizes:	Sta	andard		"A" Size	Meg	;a	
Width:	8 ft	2.4 m	4	ft 1.2 m	16 ft	4.9 m	
Length:	112.5 ft	34.3 m	225	ft 68.6 m	112.5 ft	34.3 m	
Weight:*	92 lbs	41.7 kg	92	lbs 41.7 kg	184 lbs	83.5 kg	
Area:	100 yd²	83.6 m ²	100	yd² 83.6 m²	200 yd ²	167.2 m ²	
#/Pallet:	9			4	9		

^{*}Weight at time of manufacturing within specified tolerances.

Index Value Properties*:						
Property	Test Method	Typical				
Mass/Unit Area	ASTM D6566	14.00 oz/yd²	474.7 g/m2			
Thickness	ASTM D6525	0.39 in	9.91 mm			
Tensile Strength-MD	ASTM D6818	728 lb/ft	10.62 kN/m			
Elongation-MD	ASTM D6818	21 %				
Tensile Strength-TD	ASTM D6818	632 lb/ft	9.22 kN/m			
Elongation-TD	ASTM D6818	20.8 %				
Light Penetration	ASTM D6567	7 %				
Density / Specific Gravity	ASTM D792	0.919 g/cm ³				
Water Absorption	ASTM D1117	259 %				
Resiliency	ASTM D6524	N/A %				
UV Resistance	ASTM D4355	80 %	500 hours			

^{*}May differ depending upon raw material variations

pe Performance De	esign Values*:		
Property	Test Method ASTM D6459		Value
C-Factors			0.01
Slope Length (L)	≤ 3:1	3:1-2:1	≥ 2:1
< 50 ft (15 m)	0.006	0.012	0.072
50 ft – 100 ft	0.026	0.042	0.086
>100 ft (30 m)	0.062	0.082	0.132

^{*}Large-Scale Results obtained by 3rd Party GAI Accredited Independent Laboratory

Bench-Scale Testing* (NTPEP***):				
Test Method	Parameters	Results		
	50mm (2in) / hr-30 min	SLR**=18.16		
ECTC Method 2 Rainfall	100mm (4in) / hr-30 min	SLR**=17.83		
	150mm (6in) / hr-30 min	SLR**=17.50		
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	3.40 lb/ft ²		
ECTC Method 4 Germination To	p soil; Fescue; 21 day incub	ation 497 %		

^{**}Soil Loss Ratio=Soil Loss Bare Soil/Soil Loss with RECP=1/C-Factor

*Bench scale tests should not be used for design purposes.

^{***}The preceding test data excerpts were reproduced with the permission of AASHTO, however, this does not constitute endorsement or approval of the product, material or device by AASHTO

Channel Performance Design Values*:						
Property	Test Method	Value				
Unvegetated Shear Stress	ASTM D 6460	3.00	lbs/ft ²	143.64	Pa	
Unvegetated Velocity	ASTM D 6460	11.0	ft/s	3.35	m/s	
Vegetated Shear Stress	ASTM D 6460	10.0	lbs/ft ²	478.80	Pa	
Vegetated Velocity	ASTM D 6460	20.0	ft/s	6.10	m/s	
Manning's N (Value Represents a Range)			0.01	24	- 12	

^{*}Large-Scale Results obtained by 3rd Party GAI Accredited Independent Laboratory

The values presented are for guidance purposes and do not constitute the practice of engineering. East Coast Erosion Blankets LLC (ECEB) ascertains that at the time of manufacture, all information presented herein is accurate and reliable and falls within the ECEB manufacturing product specification variances. If the product does not meet the stated values and ECEB is notified in writing prior to installation, the product will be replaced at no cost to the purchaser. ECEB will not be held liable for any type of damage or losses, directly or indirectly for failure of this product. Current revision supersedes all previous versions for this product.

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