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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% Coconut			
			30% C				
Netting:	Туре					Net Color	
Top: N	: Medium weight 5# PMSF UV Stabilized Polypropylene		ypropylene			Black	
	leavyweight 24# PMSF Medium weight 5# PMS	/1	17				
			,	مالما	Dett		
Net Opening:		Гор ' x 0.5"		Middle 0.4" x 0.5"		c 0.5"	
Thread:	Туре		Co	lor			
	UV Stabilized Thread		Bla	Black			
Roll Sizes:	Sta	ndard	"A"	Size	Με	ega	
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 yd ²	83.6 m ²	200 yd ²	167.2 m ²	
#/Pallet:		9		4	ç)	

*Weight at time of manufacturing within specified tolerances.

Property	Test Method	Typical			
Mass/Unit Area	ASTM D6566	14.00 oz/yd	² 474.7 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		

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Slope Performance Design Values*:					
Property	Test Method		Value 0.01		
C-Factors	ASTM D				
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

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 %	
*Bench scale tests should not be u	used for design purposes.		
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**Soil Loss Ratio=Soil Loss Bare Soil/Soil Loss with RECP=1/C-Factor

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Channel Performance Design Values*:					
Property	Test Method	Value			
Unvegetated Shear Stress	ASTM D 6460	3.00	lbs/ft ²	143.64	Ра
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	Ра
Vegetated Velocity	ASTM D 6460	20.0	ft/s	6.10	m/s
Manning's N (Value Represe	ents a Range)	-	0.02	24	

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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.