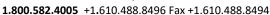


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Material and Performance Specification

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				2			
	70% Straw		30% Coconut						
Netting:	Туре						Net Color		
Top: M	Top: Medium weight 5# PMSF UV Stabilized Polypropylene							Black	
Middle: H	leavyweight 24# PMSF	UV Stabilized	Polypropylene						
Bottom: N	/ledium weight 5# PM	SF UV Stabilize	d Polypropylene						
Net Opening:		Гор		Middle			Bottom		
	0.5'	" x 0.5"			0.4"	x 0.5"		0.5" x 0.5"	
Thread:	Туре			Co	lor				
	UV Stabiliz	ed Thread			Bla	ack			
Roll Sizes:	Sta	ındard			"A"	Size		Mega	
Width:	8 ft	2.4 m			4 ft	1.2 m	16	ft 4.9 n	n
Length:	112.5 ft	34.3 m			225 ft	68.6 m	112.5	ft 34.3 n	n
Weight:*	92 lbs	41.7 kg			92 lbs	41.7 kg	184	lbs 83.5 k	g
Area:	100 yd²	83.6 m ²			100 yd²	83.6 m ²	200	yd² 167.2 n	n ²
#/Pallet:		9			4	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

ope Performance De	esign Values*:		
Property	Test Me	Value	
C-Factors	ASTM D	5459	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 %				
*Bench scale tests should not be u	used for design purposes.					

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

^{***}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/ft²	478.80	Pa			
Vegetated Velocity	ASTM D 6460	20.0	ft/s	6.10	m/s			
Manning's N (Value Represents a Range)			0.024					

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