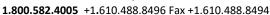


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Material and Performance Specification

ECC-3™ Coconut Turf Reinforcement Mat

Description:

The ECC-3™ is made with uniformly distributed 100% 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 ECC-3™ is a permanent turf reinforcement mat and is suitable for 1:1 slopes and high-flow channels.

Matrix:		1	2	
	100%	6 Coconut		
Netting:	Туре			Net Color
Top:	Medium weight 8# PMSF UV Stabilized Polypropylene		propylene	Black
Middle:	Heavyweight 24# PMS	F UV Stabilized Polyp	ropylene	
Bottom:	Medium weight 8# PM	SF UV Stabilized Poly	propylene	
Net Opening:		Тор	Middle	Bottom
	0.5	5" x 0.5"	0.4" x 0.5"	0.5" x 0.5"
Thread:		Туре	Color	
	UV Stabiliz	zed Thread		
Roll Sizes:	St	andard	"A" Size	Mega
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 yd² 167.2 m²
#/Pallet:		9	4	9

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

ndex Value Properties*:					
Property	Test Method		1	Typical	
Mass/Unit Area	ASTM D6566	13.25	oz/yd²	449.2 §	g/m2
Thickness	ASTM D6525	0.34	in	8.64 г	mm
Tensile Strength-MD	ASTM D6818	802	lb/ft	11.70 H	kN/m
Elongation-MD	ASTM D6818	25	%		
Tensile Strength-TD	ASTM D6818	643	lb/ft	9.38 l	kN/m
Elongation-TD	ASTM D6818	15.7	%		
Light Penetration	ASTM D6567	14	%		
Density / Specific Gravity	ASTM D792	0.888	g/cm³		
Water Absorption	ASTM D1117	113	%		
Resiliency	ASTM D6524	N/A	%		
UV Resistance	ASTM D4355	98	%	1000 h	ours

^{*}May differ depending upon raw material variations

Slope Performance Design Values*:					
Property	Test Me	Value 0.00			
C-Factors	ASTM D6459				
Slope Length (L)	≤ 3:1	3:1-2:1	≥ 2:1		
< 50 ft (15 m)	0.001	0.007	0.047		
50 ft – 100 ft	0.008	0.015	0.069		
>100 ft (30 m)	0.027	0.050	0.089		

^{*}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**=7.70		
ECTC Method 2 Rainfall	100mm (4in) / hr-30 min	SLR**=10.43		
	150mm (6in) / hr-30 min	SLR**=14.18		
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	3.13 lb/ft ²		
ECTC Method 4 Germination To	p soil; Fescue; 21 day incub	ation 364 %		
*Rench scale tests should not be a	used for design nurnoses			

^{**}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	3.20	lbs/ft ²	153.22	Pa	
Unvegetated Velocity	ASTM D 6460	11.5	ft/s	3.51	m/s	
Vegetated Shear Stress	ASTM D 6460	12.0	lbs/ft²	574.56	Pa	
Vegetated Velocity	ASTM D 6460	25.0	ft/s	7.62	m/s	
Manning's N (Value Represents a Range)			0.02	24		

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