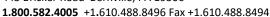


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Material and Performance Specification

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%	Coconut					
Netting:	Туре					Net Color	
Тор:	Medium weight 8# PM	SF UV Stabilized Poly	propylene		Black		
Middle:	Heavyweight 24# PMSF	UV Stabilized Polyp	ropylene				
Bottom:	Medium weight 8# PM	SF UV Stabilized Poly	propylene				
Net Opening:	Тор		Middl	Middle		Bottom	
	0.5	0.5" x 0.5"		0.5" x	0.5" x 0.5"		
Thread:		Туре	Colo	r			
	UV Stabiliz	ed Thread					
Roll Sizes:	Sta	andard	"A" Siz	ze	Me	ga	
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 6	58.6 m	112.5 ft	34.3 m	
Weight:*	92 lbs	41.7 kg	92 lbs 4	11.7 kg	184 lbs	83.5 kg	
Area:	100 yd²	83.6 m ²	100 yd ² 8	33.6 m ²	200 yd²	167.2 m ²	
#/Pallet:		9	4		9		

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

Index Value Properties*:						
Property	Test Method		1	Typical Typical		
Mass/Unit Area	ASTM D6566	13.25	oz/yd²	449.2 g/m2		
Thickness	ASTM D6525	0.34	in	8.64 mm		
Tensile Strength-MD	ASTM D6818	802	lb/ft	11.70 kN/m		
Elongation-MD	ASTM D6818	25	%			
Tensile Strength-TD	ASTM D6818	643	lb/ft	9.38 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 hours		

^{*}May differ depending upon raw material variations

Slope Performance Design Values*:						
Property	Test Me	Value				
C-Factors	ASTM D	0.00				
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 %			
*Bench 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)			0.0	24		

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