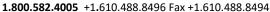


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443 Bricker Road Bernville, PA 19506









Material and Performance Specification

ECSC-2™ Double Net Straw/Coconut Rolled Erosion Control Product

Description:

The ECSC-2™ is made with uniformly distributed 70% agricultural straw, 30% coconut fiber and two polypropylene nets securely sewn together with degradable 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-2™ has functional longevity of approximately 24 months, but will vary depending on soil and climatic conditions, and is suitable for slopes 2:1 to 1:1 and low to medium flow channels. The ECSC-2™ meets Type 3.B specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17.

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	70% Straw		30% C	30% Coconut			
Netting:	Туре					Net Color	
Top: Lig	Top: Lightweight Photodegradable Polypropylene				Green		
Middle: No	one						
Bottom: M	ledium weight UV Stal	oilized Polypropy	lene				
Net Opening:	Top 0.5" x 0.5"		Mic	Middle		Bottom	
					0.75"	¢ 0.75"	
Thread:	Туре		Co	lor			
	Degradable Thread		WI	White			
Roll Sizes:	Sta	ndard	"A"	Size	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	68.6 m	112.5 ft	34.3 m	
Weight*:	57 lbs	25.9 kg	57 lbs	25.9 kg	114 lbs	51.7 kg	
Area:	100 yd ²	83.6 m ²	100 yd²	83.6 m ²	200 yd ²	167.2 m ²	

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#/Pallet:

Index Value Properties*:					
Property	Test Method	Ту	Typical		
Mass/Unit Area	ASTM D6475	8.00 oz/yd ²	271.2 g/m2		
Thickness	ASTM D6525	0.30 in	7.62 mm		
Tensile Strength-MD	ASTM D6818	178 lb/ft	2.60 kN/m		
Elongation-MD	ASTM D6818	31 %			
Tensile Strength-TD	ASTM D6818	148 lb/ft	2.16 kN/m		
Elongation-TD	ASTM D6818	22.4 %			
Light Penetration	ASTM D6567	13 %			
Density / Specific Gravity	ASTM D792	N/A g/cm ³			
Water Absorption	ASTM D1117	436 %			
*** 1:cc 1 1:					

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^{*}May differ depending upon raw material variations

Slope Performance De	esign Values*:			
Property	Test Me	Value 0.02		
C-Factors	ASTM D6459			
Slope Length (L)	≤ 3:1	3:1-2:1	≥ 2:1	
< 50 ft (15 m)	0.017	0.028	0.080	
50 ft – 100 ft	0.031	0.059	0.125	
>100 ft (30 m)	0.080	0.090	0.170	

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

Test Method	Parameters	Results	
	50mm (2in) / hr-30 min	SLR**=8.52	
ECTC Method 2 Rainfall	100mm (4in) / hr-30 min	SLR**=11.01	
	150mm (6in) / hr-30 min	SLR**=14.28	
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	2.16 lb/ft ²	
ECTC Method 4 Germination To	p soil; Fescue; 21 day incub	ation 503 %	

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^{***}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

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ASTM D 6460	2.25	lbs/ft ²	107.73	Pa
ASTM D 6460	8.0	ft/s	2.44	m/s
NA	N/A	lbs/ft ²	N/A	Pa
NA	N/A	ft/s	N/A	m/s
	ASTM D 6460 NA	Test Method ASTM D 6460 2.25 ASTM D 6460 8.0 NA N/A	Test Method Value ASTM D 6460 2.25 lbs/ft² ASTM D 6460 8.0 ft/s NA N/A lbs/ft²	Test Method Value ASTM D 6460 2.25 lbs/ft² 107.73 ASTM D 6460 8.0 ft/s 2.44 NA N/A lbs/ft² N/A

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

^{*}Weight at time of manufacturing.

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