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Material and Performance Specification

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

Description:

The ECSC-2B™ is made with uniformly distributed 70% agricultural straw, 30% coconut fiber and two organic jute nets securely sewn together with biodegradable 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-2B™ has functional longevity of approximately 18 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-2B™ 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.

Matrix:	1	2				
	70% Straw	30% Coconut				
Netting:	Type					
	Top: Organic Leno Weave Jute					
	Middle: None					
	Bottom: Organic Leno Weave Jute					
Net Opening:	Top	Middle	Bottom			
	0.5" x 1.0"	N/A	0.5" x 1.0"			
Thread:	Type		Color			
	Biodegradable Thread		Natural			
Roll Sizes:	Standard		"A" Size	Mega		
Width:	8 ft	2.4 m	4.00 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*:	60 lbs	27.2 kg	60 lbs	27.2 kg	120 lbs	54.4 kg
Area:	100 yd ²	83.6 m ²	100 yd ²	83.6 m ²	200 yd ²	167.2 m ²
#/Pallet:	20		9		20	

*Weight at time of manufacturing.

Index Value Properties*:

Property	Test Method	Typical
Mass/Unit Area	ASTM D6475	9.00 oz/yd ² 305.1 g/m ²
Thickness	ASTM D6525	0.28 in 7.11 mm
Tensile Strength-MD	ASTM D6818	204.00 lb/ft 2.98 kN/m
Elongation-MD	ASTM D6818	14 %
Tensile Strength-TD	ASTM D6818	134.00 lb/ft 1.96 kN/m
Elongation-TD	ASTM D6818	16.3 %
Light Penetration	ASTM D6567	12 %
Density / Specific Gravity	ASTM D792	N/A g/cm ³
Water Absorption	ASTM D1117	361 %

*May differ depending upon raw material variations

Slope Performance Design Values*:

Property	Test Method	Value	
C-Factors	ASTM D6459	0.05	
Slope Length (L)	≤ 3:1	3:1-2:1	≥ 2:1
< 50 ft (15 m)	0.050	0.060	0.110
50 ft – 100 ft	0.059	0.075	0.130
>100 ft (30 m)	0.062	0.090	0.150

*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**=11.89
ECTC Method 2 Rainfall	100mm (4in) / hr-30 min	SLR**=13.60
	150mm (6in) / hr-30 min	SLR**=15.50
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	2.46 lb/ft ²
ECTC Method 4 Germination	Top soil; Fescue; 21 day incubation	671 %

*Bench scale tests should not be 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	2.00 lbs/ft ² 95.76 Pa
Unvegetated Velocity	ASTM D 6460	8.0 ft/s 2.44 m/s
Vegetated Shear Stress	NA	N/A lbs/ft ² N/A Pa
Vegetated Velocity	NA	N/A ft/s N/A m/s
Manning's N (Value Represents a Range)		0.029

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

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.