

Material and Performance Specification Sheet

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 jute nets securely sewn together with biodegradable thread. The tightly compressed blankets are placed inside vented bags 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 suited for slopes 2:1 to 1:1. 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.

Materials:	Netting – Top and Bottom Leno Weave Jute 100% Biodegradable	Matrix 70% Agricultural Straw 0.385 lbs/sq yd 30% Coconut Fiber 0.165 lbs/sq yd	Thread Biodegradable 1.50" stitch spacing
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Roll Sizes:	Standards
Width: 7.5 ft (2.3 m)	7.5 ft (2.3 m)
Length: 96.0 ft (29.3 m)	120.0 ft (36.6 m)
Weight ±10%: 56.0 lbs(25.4 kg)	70.0 lbs (31.8 kg)
Area: 80 yd ² (66.9 m ²)	100 yd ² (83.6 m ²)
#/Pallet: 16	16

Index Value Properties*:

Property	Test Method	Typical
Mass/Unit Area	ASTM D6475	11.2 oz/yd ²
Thickness	ASTM D5199	.33 in
Tensile Strength-MD	ASTM D5035	270 lb/ft
Elongation-MD	ASTM D5035	4.1 %
Tensile Strength-TD	ASTM D5035	195 lb/ft
Elongation-TD	ASTM D5035	4.8 %
Light Penetration	ECTC Guidelines	11.5 %
Water Absorption	ASTM D1117	385 %

* May differ depending upon raw material variations

Bench-Scale Testing* (NTPEP):

Test Method	Parameters	Results
ECTC Method 2 Rainfall	50mm (2in) / hr-30 min	SLR**=12.63
	100mm (4in) / hr-30 min	SLR**=13.76
	150mm (6in) / hr-30 min	SLR**=14.99
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	1.35 lb/ft
ECTC Method 4 Germination	Top soil; Fescue; 21 day incubation	627% improvement

*Bench scale tests should not be used for design purposes.
**Soil Loss Ratio=Soil Loss Bare Soil/Soil Loss with RECP=1/C-Factor (soil loss is based on regression analysis).

Design Values:

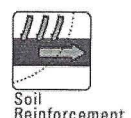
Property	Value
Manning's N	.015
RUSLE C-Factor	.073
Maximum Permissible Sheer Stress	1.35 psf (65 Pa)

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Revised 4/1/07 Supersedes all previous versions

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Mirafi[®] BXG 12 geogrid is composed of high molecular weight, high tenacity polyester multifilament yarns which are woven in tension and finished with a PVC coating. Mirafi[®] BXG 12 geogrid is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CMD
Tensile Strength (at ultimate)	ASTM D 6627	lb/yd (kN/m)	260 (2300)	