



## Material and Performance Specification Sheet

### ECC-2B Double Net Coconut Biodegradable Rolled Erosion Control Product

**Description:** The ECC-2B is made with uniformly distributed 100% 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 ECC-2B has functional longevity of approximately 24 months, but will vary depending on soil and climatic conditions, and is suited for 1:1 slopes. The ECC-2B meets Type 4 specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17.

<b>Materials:</b>	<b>Netting – Top and Bottom</b> Leno Weave Jute 100% Biodegradable	<b>Matrix</b> 100% Coconut Fiber 0.55 lbs/sq yd	<b>Thread</b> Biodegradable 1.50" stitch spacing
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<b>Roll Sizes:</b>	<b>Standards</b>
Width:	7.5 ft (2.3 m)
Length:	120.0 ft (36.6 m)
Weight $\pm 10\%$ :	75.0 lbs (34.0 kg)
Area:	100 yd <sup>2</sup> (83.6 m <sup>2</sup> )
#/Pallet:	16

#### Index Value Properties\*:

Property	Test Method	Typical
Mass/Unit Area	ASTM D6475	12 oz/yd <sup>2</sup>
Thickness	ASTM D5199	.31 in
Tensile Strength-MD	ASTM D5035	290 lb/ft
Elongation-MD	ASTM D5035	3.9 %
Tensile Strength-TD	ASTM D5035	240 lb/ft
Elongation-TD	ASTM D5035	5.3 %
Light Penetration	ECTC Guidelines	10 %
Water Absorption	ASTM D1117	225 %

\* 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** = 11.53
	100mm (4in) / hr-30 min	SLR** = 18.13
	150mm (6in) / hr-30 min	SLR** = 28.53
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	1.63 lb/ft
ECTC Method 4 Germination	Top soil; Fescue; 21 day incubation	445% 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	.06
Maximum Permissible Sheer Stress	1.63 psf (78 Pa)

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