



Material and Performance Specification Sheet

ECC-2 Double Net Coconut Rolled Erosion Control Product

Description: The ECC-2 is made with uniformly distributed 100% coconut fiber and two polypropylene nets securely sewn together with UV stabilized 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-2 has functional longevity of approximately 36 months, but will vary depending on soil and climatic conditions and is suitable for slopes 1:1. The ECC-2 meets Type 4 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 Heavyweight UV Stabilized Polypropylene .75" x .75" Opening	Matrix 100% Coconut Fiber 0.55 lbs/sq yd	Thread UV Stabilized 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 $\pm 10\%$: 48.0 lbs (20.4 kg)	60.0 lbs (27.2 kg)
Area: 80 yd ² (66.9 m ²)	100 yd ² (83.6 m ²)
#/Pallet: 20	16

Index Value Properties*:

Property	Test Method	Typical
Mass/Unit Area	ASTM D6475	9.45 oz/yd ²
Thickness	ASTM D5199	.23 in
Tensile Strength-MD	ASTM D5035	270 lb/ft
Elongation-MD	ASTM D5035	38 %
Tensile Strength-TD	ASTM D5035	170 lb/ft
Elongation-TD	ASTM D5035	30 %
Light Penetration	ECTC Guidelines	14 %
Water Absorption	ASTM D1117	233 %
* 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**=8.00
	100mm (4in) / hr-30 min	SLR**=11.71
	150mm (6in) / hr-30 min	SLR**=17.41
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	2.99 lb/ft
ECTC Method 4 Germination	Top soil; Fescue; 21 day incubation	755% 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	.09
Maximum Permissible Sheer Stress	3.2 psf (154 Pa)
Maximum Flow Velocity	7.0 ft/sec (2.13 m/sec)

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