



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

The ECC-2 is an erosion control blanket made with uniformly distributed 100% coconut fiber and two polypropylene nets securely sewn together with UV stabilized thread. The tightly compressed blankets are wrapped 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 climate conditions, and is suitable for slopes 1:1 and medium to high flow channels. 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 / Bottom**

Medium weight UV Stabilized Polypropylene  
0.75" x 0.75" Opening / 0.75" x 0.75" Opening  
Color: Black

**Matrix**

100% Coconut

**Thread**

UV Stabilized Thread  
Color: Black

**Roll Sizes:**

	<b>Standard</b>	<b>"A" Size</b>	<b>Mega</b>
Width:	8.0 ft (2.4 m)	4.0 ft 1.2 m	16.0 ft (4.9 m)
Length:	112.5 ft (34.3 m)	225 ft 68.6 m	112.5 ft (34.3 m)
Weight $\pm 10\%$ :	57.0 lbs (25.9 kg)	57 lbs 25.9 kg	114.0 lbs (51.7 kg)
Area:	100 yd <sup>2</sup> (83.6 m <sup>2</sup> )	100 ys <sup>2</sup> 83.6 m <sup>2</sup>	200 yd <sup>2</sup> (167.2 m <sup>2</sup> )
#/Pallet:	25	9	25

**Index Value Properties\*:**

Property	Test Method	Typical
Mass/Unit Area	ASTM D6475	8.30 oz/yd <sup>2</sup> 281.4 g/m <sup>2</sup>
Thickness	ASTM D6525	.26 in (6.60 mm)
Tensile Strength-MD	ASTM D6818	260 lb/ft (3.79 kN/m)
Elongation-MD	ASTM D6818	20 %
Tensile Strength-TD	ASTM D6818	175 lb/ft (2.55 kN/m)
Elongation-TD	ASTM D6818	20.0 %
Light Penetration	ASTM D6567	16 %
Density / Specific Gravity	ASTM D792	N/A g/cm <sup>3</sup>
Water Absorption	ASTM D1117	199 %

\* 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**= 8.45
	100mm (4in) / hr-30 min	SLR**= 10.43
	150mm (6in) / hr-30 min	SLR**= 12.90
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	2.59 lb/ft <sup>2</sup>
ECTC Method 4 Germination	Top soil; Fescue; 21 day incubation	772%

\*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 by AASHTO

**SLOPE Performance Design Values\*:**

Property	Test Method	Value
<b>C-Factors</b>	ASTM D6459	0.01
<b>Slope Length (L)</b>	$\leq 3:1$	$3:1 - 2:1$
	$\geq 2:1$	
	< 50 ft (15m)	0.010    0.023    0.072
	50 ft – 100 ft	0.030    0.054    0.090
> 100 ft (30 m)	0.064    0.084    0.104	

\*Large-Scale Results obtained by 3<sup>rd</sup> Party GAI Accredited Independent Laboratory

**CHANNEL Performance Design Values\*:**

Property	Test Method	Value
Unvegetated Shear Stress	ASTM D 6460	2.50 lbs/ft <sup>2</sup> (119.70 Pa)
Unvegetated Velocity	ASTM D 6460	10.0 ft/s (3.05 m/s)
Vegetated Shear Stress	NA	NA
Vegetated Velocity	NA	NA
Manning's N	Calculated Range	0.025

\*Large-Scale Results obtained by 3<sup>rd</sup> Party GAI Accredited Independent Laboratory

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