



## 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 ±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  | 382 %  |

\* 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;<br>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> | ≤ 3:1           | 3:1 – 2:1 ≥ 2:1   |
|                         | < 50 ft (15m)   | 0.005 0.015 0.065 |
|                         | 50 ft – 100 ft  | 0.013 0.030 0.078 |
|                         | > 100 ft (30 m) | 0.022 0.045 0.082 |

\*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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