



## **PRODUCT DATA SHEET**

### **AEC PREMIER STRAW/COCONUT™ FIBRENET™**

#### **DESCRIPTION**

AEC Premier Straw/Coconut FibreNet erosion control blanket (ECB) consists of a blend of 70% straw and 30% coconut fibers. The straw fibers used in the product are the finest available agricultural straw with 75% four-inch fibers or greater fiber length. The blended fibers are evenly distributed throughout the entire area of the blanket. The top and bottom of each blanket is covered with 100% biodegradable jute netting. The product is 100% biodegradable when biodegradable thread is ordered. AEC Premier Straw/Coconut FibreNet shall be manufactured in the U.S.A.

AEC Premier Straw/Coconut FibreNet has a design soil loss ratio (event-based RUSLE C factor) of .15 and is typically suitable for slopes up to 1.5H:1V. AEC Premier Straw/Coconut FibreNet is rated for channel flows up to 8.5 ft/s (2.6 m/s) and 2.0 lb/ft<sup>2</sup> (96 Pa) shear stress.

#### **PHYSICAL PROPERTIES**

AEC Premier Straw/Coconut FibreNet measurements at time of manufacturing:

<b>Width</b>	8.0 ft (2.4 m)	16.0 ft (4.9 m)
<b>Length</b>	112.5 ft (34.3 m)	112.5 ft (34.29 m)
<b>Area</b>	100.0 yd <sup>2</sup> (83.6 m <sup>2</sup> )	200.0 yd <sup>2</sup> (167.2 m <sup>2</sup> )
<b>Weight<sup>a</sup></b>	50.0 lb (22.7 kg)	100.0 lb (45.4 kg)
<b>Mass per Unit Area (± 10%)</b>	0.50 lb/yd <sup>2</sup> (0.27 kg/m <sup>2</sup> )	0.50 lb/yd <sup>2</sup> (0.27 kg/m <sup>2</sup> )
<b>Net Openings</b>	≈ 0.5 in x 1.0 in (12.7 mm x 25.4 mm)	≈ 0.5 in x 1.0 in (12.7 mm x 25.4 mm)

#### **TYPICAL INDEX VALUES**

<b>Index Property</b>	<b>Test Method</b>	<b>Value</b>
Thickness	ASTM D 6525	0.261 in (6.63 mm)
Light Penetration	ASTM D 6567	17.7%
Mass per Unit Area	ASTM D 6475	0.588 lb/yd <sup>2</sup> (0.319 kg/m <sup>2</sup> )
MD-Tensile Strength Max.	ASTM D 6818	187.2 lb/ft (2.73 kN/m)
TD-Tensile Strength Max.	ASTM D 6818	145.2 lb/ft (2.12 kN/m)
MD-Elongation	ASTM D 6818	9.0%
TD-Elongation	ASTM D 6818	13.3%
Water Absorption	ASTM D 1117/ECTC	385%
Bench-Scale Rain Splash	ASTM D 7101	SLR = 8.00 @ 2 in/hr <sup>b,c</sup>
Bench-Scale Rain Splash	ASTM D 7101	SLR = 9.72 @ 4 in/hr <sup>b,c</sup>
Bench-Scale Rain Splash	ASTM D 7101	SLR = 14.30 @ 6 in/hr <sup>b,c</sup>
Bench-Scale Shear	ASTM D 7207	2.22 lb/ft <sup>2</sup> @ 0.5 in soil loss <sup>c</sup>
Germination Improvement	ASTM D 7322	384%

<sup>a</sup> Weight is based on a dry fiber weight basis at time of manufacture. Baseline moisture content of AEC Premier Straw and AEC Premier Coconut fibers are 15% and 20%, respectively.

<sup>b</sup> SLR is the Soil Loss Ratio, as reported by NTPEP/AASHTO. <sup>c</sup> Bench-scale index values should not be used for design purposes.

