



**PRODUCT DATA SHEET**  
**AEC PREMIER STRAW/COCONUT™**

**DESCRIPTION**

AEC Premier Straw/Coconut 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, and are certified weed seed free. The blended fibers are evenly distributed throughout the entire area of the blanket. The top and bottom of each blanket is covered with polypropylene netting. AEC Premier Straw/Coconut shall be manufactured in the U.S.A.

AEC Premier Straw/Coconut 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 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 measurements at time of manufacturing:

<b>Width</b>		8.0 ft (2.4 m)
<b>Length</b>		112.5 ft (34.3 m)
<b>Area</b>		100.0 yd <sup>2</sup> (83.6 m <sup>2</sup> )
<b>Weight<sup>a</sup></b>		50.0 lb (22.7 kg)
<b>Mass per Unit Area (± 10%)</b>		0.50 lb/yd <sup>2</sup> (0.27 kg/m <sup>2</sup> )
<b>Net Openings</b>	Polypropylene Top (HV Black)	0.75 in x 0.75 in (19.1 mm x 19.1 mm)
	Polypropylene Bottom (Green)	0.50 in x 0.50 in (12.7 mm x 12.7 mm)

**TYPICAL INDEX VALUES**

<u>Index Property</u>	<u>Test Method</u>	<u>Value</u>
Thickness	ASTM D 6525	0.267 in (6.78 mm)
Light Penetration	ASTM D 6567	15.0 %
Resiliency	ASTM D 6524	74%
Mass per Unit Area	ASTM D 6475	0.42 lb/yd <sup>2</sup> (0.228 kg/m <sup>2</sup> )
MD-Tensile Strength Max.	ASTM D 6818	203.5 lb/ft (2.97 kN/m)
TD-Tensile Strength Max.	ASTM D 6818	145.0 lb/ft (2.12 kN/m)
MD-Elongation	ASTM D 6818	27.54%
TD-Elongation	ASTM D 6818	36.52%
Swell	ECTC Procedure	55%
Water Absorption	ASTM D 1117/ECTC	415%
Bench-Scale Rain Splash	ASTM D 7101	SLR = 12.51 @ 2 in/hr <sup>b,c</sup>
Bench-Scale Rain Splash	ASTM D 7101	SLR = 12.72 @ 4 in/hr <sup>b,c</sup>
Bench-Scale Rain Splash	ASTM D 7101	SLR = 12.98 @ 6 in/hr <sup>b,c</sup>
Bench-Scale Shear	ASTM D 7207	2.11 lb/ft <sup>2</sup> @ 0.5 in soil loss <sup>c</sup>
Germination Improvement	ASTM D 7322	465%

<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.

