



**PRODUCT DATA SHEET**  
**AEC PREMIER STRAW® SINGLE NET FIBRENET™**

**DESCRIPTION**

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

AEC Premier Straw Single Net FibreNet has a design soil loss ratio (event-based RUSLE C factor) of .05 and is typically suitable for slopes up to 3H:1V. AEC Premier Straw Single Net FibreNet is rated for channel flows up to 4.5 ft/s (1.4 m/s) and 1.55 lb/ft<sup>2</sup> (74 Pa) shear stress.

**PHYSICAL PROPERTIES**

AEC Premier Straw Single Net 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	0.31 in (7.87 mm)
Light Penetration	ASTM D 6567	12.19%
Mass per Unit Area	ASTM D 6475	0.43 lb/yd <sup>2</sup> (0.233 kg/m <sup>2</sup> )
MD-Tensile Strength Max.	ASTM D 6818	199.2 lb/ft (2.91 kN/m)
TD-Tensile Strength Max.	ASTM D 6818	121.2 lb/ft (1.77 kN/m)
MD-Elongation	ASTM D 6818	5.5%
TD-Elongation	ASTM D 6818	4.5%
Water Absorption	ASTM D 1117/ECTC	409%
Bench-Scale Rain Splash	ASTM D 7101	SLR = 20.93 @ 2 in/hr <sup>b,c</sup>
Bench-Scale Rain Splash	ASTM D 7101	SLR = 16.32 @ 4 in/hr <sup>b,c</sup>
Bench-Scale Rain Splash	ASTM D 7101	SLR = 12.81 @ 6 in/hr <sup>b,c</sup>
Bench-Scale Shear	ASTM D 7207	1.54 lb/ft <sup>2</sup> @ 0.5 in soil loss <sup>c</sup>
Germination Improvement	ASTM D 7322	473%

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

<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.

