



## PRODUCT DATA SHEET

### AEC PREMIER STRAW® DOUBLE NET

#### DESCRIPTION

AEC Premier Straw Double Net 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 and bottom of each blanket is covered with degradable polypropylene netting. AEC Premier Straw Double Net shall be manufactured in the U.S.A.

AEC Premier Straw Double Net has a design soil loss ratio (event-based RUSLE C factor) of .05 and is typically suitable for slopes up to 2H:1V. AEC Premier Straw Double Net is rated for channel flows up to 7.0 ft/s (2.1 m/s) and 1.75 lb/ft<sup>2</sup> (84 Pa) shear stress.

#### PHYSICAL PROPERTIES

AEC Premier Straw Double Net 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 (34.3 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 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>	0.50 in x 0.50 in (12.7 mm x 12.7 mm)	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	0.255 in (6.48 mm)
Light Penetration	ASTM D 6567	10.3%
Resiliency	ASTM D 6524	61%
Mass per Unit Area	ASTM D 6475	0.528 lb/yd <sup>2</sup> (0.286 kg/m <sup>2</sup> )
MD-Tensile Strength Max.	ASTM D 6818	168.0 lb/ft (2.45 kN/m)
TD-Tensile Strength Max.	ASTM D 6818	88.8 lb/ft (1.30 kN/m)
MD-Elongation	ASTM D 6818	23.3%
TD-Elongation	ASTM D 6818	27.1%
Swell	ECTC Procedure	22%
Water Absorption	ASTM D 1117/ECTC	502%
Bench-Scale Rain Splash	ASTM D 7101	SLR = 6.98 @ 2 in/hr <sup>b,c</sup>
Bench-Scale Rain Splash	ASTM D 7101	SLR = 8.11 @ 4 in/hr <sup>b,c</sup>
Bench-Scale Rain Splash	ASTM D 7101	SLR = 9.47 @ 6 in/hr <sup>b,c</sup>
Bench-Scale Shear	ASTM D 7207	1.97 lb/ft <sup>2</sup> @ 0.5 in soil loss <sup>c</sup>
Germination Improvement	ASTM D 7322	424%

<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.

