

## AEC PREMIER STRAW® SINGLE NET PRODUCT DATA SHEET

### DESCRIPTION

AEC Premier Straw Single Net erosion control blanket (ECB) consists of the finest available agricultural straw with 75% four-inch fibers or greater fiber length, and it is certified weed seed free. The straw fibers are evenly distributed throughout the entire area of the blanket. The top of each blanket is covered with degradable polypropylene netting. ECB shall be Manufactured in the U.S.A.

AEC Premier Straw Single Net has a design soil loss ratio (event-based RUSLE C factor) of .05 and is typically suitable for slopes up to 3:1. AEC Premier Straw Single Net 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 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*</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>	0.50 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	0.31 in (7.87 mm)
Light Penetration	ASTM D 6567	21.6%
Resiliency	ASTM D 6524	65%
Mass per Unit Area	ASTM D 6475	0.43 lb/yd <sup>2</sup> (233 g/m <sup>2</sup> )
MD-Tensile Strength Max.	ASTM D 6818	142.8 lb/ft (2.09 kN/m)
TD-Tensile Strength Max.	ASTM D 6818	52.8 lb/ft (0.77 kN/m)
MD-Elongation	ASTM D 6818	32.7%
TD-Elongation	ASTM D 6818	26.3%
Swell	ECTC Procedure	22%
Water Absorption	ASTM D 1117/ECTC	447%
Bench-Scale Rain Splash	ECTC Method 2	SLR = 7.33 @ 2 in/hr
Bench-Scale Rain Splash	ECTC Method 2	SLR = 8.25 @ 4 in/hr
Bench-Scale Rain Splash	ECTC Method 2	SLR = 9.30 @ 6 in/hr
Bench-Scale Shear	ECTC Method 3	1.54 lb/ft <sup>2</sup> @ 0.5" soil loss
Germination Improvement	ECTC Method 4	476%

\* Weight is based on a dry fiber weight basis at time of manufacture. Baseline moisture content of AEC Premier Straw fibers is 15%.

\*\* SLR is the Soil Loss Ratio, as reported by NTPEP/AASHTO. Bench-scale index values should not be used for design purposes.

