



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/ft² (74 Pa) shear stress.

PHYSICAL PROPERTIES

AEC Premier Straw Single Net FibreNet measurements at time of manufacturing:

Width	8.0 ft (2.4 m)	16.0 ft (4.9 m)
Length	112.5 ft (34.3 m)	112.5 ft (34.29 m)
Area	100.0 yd ² (83.6 m ²)	200.0 yd ² (167.2 m ²)
Weight^a	50.0 lb (22.7 kg)	100.0 lb (45.4 kg)
Mass per Unit Area (± 10%)	0.50 lb/yd ² (0.27 kg/m ²)	0.50 lb/yd ² (0.27 kg/m ²)
Net Openings	≈ 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

<u>Index Property</u>	<u>Test Method</u>	<u>Value</u>
Thickness	ASTM D 6525	0.290 in (7.37 mm)
Light Penetration	ASTM D 6567	25.1%
Mass per Unit Area	ASTM D 6475	0.533 lb/yd ² (0.289 kg/m ²)
MD-Tensile Strength Max.	ASTM D 6818	123.6 lb/ft (1.80 kN/m)
TD-Tensile Strength Max.	ASTM D 6818	92.4 lb/ft (1.35 kN/m)
MD-Elongation	ASTM D 6818	12.8%
TD-Elongation	ASTM D 6818	15.0%
Water Absorption	ASTM D 1117/ECTC	398%
Bench-Scale Rain Splash	ASTM D 7101	SLR = 8.56 @ 2 in/hr ^{b,c}
Bench-Scale Rain Splash	ASTM D 7101	SLR = 9.74 @ 4 in/hr ^{b,c}
Bench-Scale Rain Splash	ASTM D 7101	SLR = 8.89 @ 6 in/hr ^{b,c}
Bench-Scale Shear	ASTM D 7207	1.65 lb/ft ² @ 0.5 in soil loss ^c
Germination Improvement	ASTM D 7322	154%

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

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

