



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, 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 100% biodegradable jute netting. The product is 100% biodegradable. 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)
Length	112.5 ft (34.3 m)
Area	100.0 yd ² (83.6 m ²)
Weight¹	50.0 lb (22.7 kg)
Mass per Unit Area (± 10%)	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)

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	8.6%
Mass per Unit Area	ASTM D 6475	0.43 lb/yd ² (233 g/m ²)
MD-Tensile Strength Max.	ASTM D 6818	199.2 lb/ft (2.92 kN/m)
TD-Tensile Strength Max.	ASTM D 6818	121.2 lb/ft (1.78 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 ^{2,3}
Bench-Scale Rain Splash	ASTM D 7101	SLR = 16.32 @ 4 in/hr ^{2,3}
Bench-Scale Rain Splash	ASTM D 7101	SLR = 12.81 @ 6 in/hr ^{2,3}
Bench-Scale Shear	ASTM D 7207	1.54 lb/ft ² @ 0.5 in soil loss ³
Germination Improvement	ASTM D 7322	473%

¹ Weight is based on a dry fiber weight basis at time of manufacture. Baseline moisture content of AEC Premier Straw fibers is 15%.

² SLR is the Soil Loss Ratio, as reported by NTPEP/AASHTO. ³ Bench-scale index values should not be used for design purposes.

