



PRODUCT DATA SHEET

AEC PREMIER STRAW® DOUBLE NET FIBRENET™

DESCRIPTION

AEC Premier Straw Double 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 and bottom of each blanket is covered with 100% biodegradable jute netting. The product is 100% biodegradable. AEC Premier Straw Double Net FibreNet shall be manufactured in the U.S.A.

AEC Premier Straw Double Net FibreNet 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 FibreNet is rated for channel flows up to 7.0 ft/s (2.1 m/s) and 1.75 lb/ft² (84 Pa) shear stress.

PHYSICAL PROPERTIES

AEC Premier Straw Double 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	0.302 in (7.67 mm)
Light Penetration	ASTM D 6567	17.4%
Mass per Unit Area	ASTM D 6475	0.43 lb/yd ² (233 g/m ²)
MD-Tensile Strength Max.	ASTM D 6818	252.0 lb/ft (3.69 kN/m)
TD-Tensile Strength Max.	ASTM D 6818	157.2 lb/ft (2.30 kN/m)
MD-Elongation	ASTM D 6818	15.7%
TD-Elongation	ASTM D 6818	14.4%
Water Absorption	ASTM D 1117/ECTC	410%
Bench-Scale Rain Splash	ASTM D 7101	SLR = 11.2 @ 2 in/hr ^{2,3}
Bench-Scale Rain Splash	ASTM D 7101	SLR = 10.27 @ 4 in/hr ^{2,3}
Bench-Scale Rain Splash	ASTM D 7101	SLR = 9.47 @ 6 in/hr ^{2,3}
Bench-Scale Shear	ASTM D 7207	1.94 lb/ft ² @ 0.5 in soil loss ³
Germination Improvement	ASTM D 7322	539%

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.

