



PRODUCT DATA SHEET
AEC PREMIER STRAW/COCONUT™ FIBRENET™

DESCRIPTION

AEC Premier Straw/Coconut FibreNet erosion control blanket (ECB) consists of a blend of 70% straw and 30% coconut fibers. The straw fibers used in the product are the finest available agricultural straw with 75% four-inch fibers or greater fiber length, and are certified weed seed free. The blended 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/Coconut FibreNet shall be manufactured in the U.S.A.

AEC Premier Straw/Coconut FibreNet has a design soil loss ratio (event-based RUSLE C factor) of .15 and is typically suitable for slopes up to 1.5H:1V. AEC Premier Straw/Coconut FibreNet is rated for channel flows up to 8.5 ft/s (2.6 m/s) and 2.0 lb/ft² (96 Pa) shear stress.

PHYSICAL PROPERTIES

AEC Premier Straw/Coconut 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)
Weight^a	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	0.331 in (8.41 mm)
Light Penetration	ASTM D 6567	5.8%
Mass per Unit Area	ASTM D 6475	0.81 lb/yd ² (0.437 kg/m ²)
MD-Tensile Strength Max.	ASTM D 6818	321.6 lb/ft (4.69 kN/m)
TD-Tensile Strength Max.	ASTM D 6818	159.6 lb/ft (2.33 kN/m)
MD-Elongation	ASTM D 6818	4.1%
TD-Elongation	ASTM D 6818	4.8%
Water Absorption	ASTM D 1117/ECTC	382%
Bench-Scale Rain Splash	ECTC Method 2	SLR = 17.80 @ 2 in/hr ^{b,c}
Bench-Scale Rain Splash	ECTC Method 2	SLR = 30.74 @ 4 in/hr ^{b,c}
Bench-Scale Rain Splash	ECTC Method 2	SLR = 53.08 @ 6 in/hr ^{b,c}
Bench-Scale Shear	ECTC Method 3	2.66 lb/ft ² @ 0.5 in soil loss ^c
Germination Improvement	ECTC Method 4	384%

^a Weight is based on a dry fiber weight basis at time of manufacture. Baseline moisture content of AEC Premier Straw and AEC Premier Coconut fibers are 15% and 20%, respectively.

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

