American Excelsior Company®
Earth Science Division

Proud Participant in NTPEP and Proud Member of:

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. 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 when biodegradable thread is ordered. 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/ft^2 (84 Pa) shear stress.

PHYSICAL PROPERTIES
AEC Premier Straw Double 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

Index Property	Test Method	Value
Thickness	ASTM D 6525	0.267 in (6.78 mm)
Light Penetration	ASTM D 6567	24.0%
Mass per Unit Area	ASTM D 6475	0.519 lb/yd^2 (0.282 kg/m^2)
MD-Tensile Strength Max.	ASTM D 6818	213.6 lb/ft (3.12 kN/m)
TD-Tensile Strength Max.	ASTM D 6818	152.4 lb/ft (2.22 kN/m)
MD-Elongation	ASTM D 6818	16.6%
TD-Elongation	ASTM D 6818	11.7%
Water Absorption	ASTM D 1117/ECTC	371%
Bench-Scale Rain Splash	ASTM D 7101	SLR = 12.47 @ 2 in/hr [b,c]
Bench-Scale Rain Splash	ASTM D 7101	SLR = 10.98 @ 4 in/hr [b,c]
Bench-Scale Rain Splash	ASTM D 7101	SLR = 9.68 @ 6 in/hr [b,c]
Bench-Scale Shear	ASTM D 7207	2.01 lb/ft^2 @ 0.5 in soil loss [c]
Germination Improvement	ASTM D 7322	417%

[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.

MADE IN THE U.S.A

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