



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.

