



PRODUCT DATA SHEET

AEC PREMIER STRAW® HIGHWAY ROLLS SINGLE NET

DESCRIPTION

AEC Premier Straw Highway Rolls Single Net erosion control blankets (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 degradable polypropylene netting. AEC Premier Straw Highway Rolls Single Net shall be manufactured in the U.S.A.

AEC Premier Straw Highway Rolls Single Net has a design soil loss ratio (event-based RUSLE C factor) of .05 and is typically suitable for slopes up to 3H:1V^a. AEC Premier Straw Highway Rolls Single Net is rated for channel flows up to 4.5 ft/s (1.4 m/s) and 1.55 lb/ft² (74 Pa) shear stress.

^a Slope steepness is dependent on the safe operating limits of the installation equipment. Refer to equipment safety manual.

PHYSICAL PROPERTIES

AEC Premier Straw Highway Rolls Single Net measurements at time of manufacturing:

Width	8.0 ft (2.4 m)
Length	562.5 ft (171.5 m)
Area	500.0 yd ² (418.1 m ²)
Weight^b	250.0 lb (113.5 kg)
Mass per Unit Area (± 10%)	0.50 lb/yd ² (0.27 kg/m ²)
Net Openings	0.50 in x 0.50 in (12.7 mm x 12.7 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	21.6%
Resiliency	ASTM D 6524	65%
Mass per Unit Area	ASTM D 6475	0.43 lb/yd ² (0.233 kg/m ²)
MD-Tensile Strength Max.	ASTM D 6818	132.2 lb/ft (1.93 kN/m)
TD-Tensile Strength Max.	ASTM D 6818	46.8 lb/ft (0.68 kN/m)
MD-Elongation	ASTM D 6818	28.4%
TD-Elongation	ASTM D 6818	26.5%
Swell	ECTC Procedure	22%
Water Absorption	ASTM D 1117/ECTC	447%
Bench-Scale Rain Splash	ASTM D 7101	SLR = 12.25 @ 2 in/hr ^{b,c}
Bench-Scale Rain Splash	ASTM D 7101	SLR = 14.30 @ 4 in/hr ^{b,c}
Bench-Scale Rain Splash	ASTM D 7101	SLR = 10.32 @ 6 in/hr ^{b,c}
Bench-Scale Shear	ASTM D 7207	1.79 lb/ft ² @ 0.5 in soil loss ^c
Germination Improvement	ASTM D 7322	330%

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

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

