

AEC PREMIER STRAW/COCONUT™ PRODUCT DATA SHEET

DESCRIPTION

AEC Premier Straw/Coconut 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 polypropylene netting. ECB shall be Manufactured in the U.S.A.

AEC Premier Straw/Coconut has a design soil loss ratio (event-based RUSLE C factor) of .15 and is typically suitable for slopes up to 1.5:1. AEC Premier Straw/Coconut 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 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*		50.0 lb (22.7 kg)
Mass per Unit Area (± 10%)		0.50 lb/yd ² (0.27 kg/m ²)
Net Openings	Polypropylene Top (heavy duty Black)	0.75 in x 0.75 in (19.1 mm x 19.1 mm)
	Polypropylene Bottom (Green)	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 1777	0.27 in (6.9 mm)
Light Penetration	ECTC Procedure	15.0 %
Resiliency	ASTM D 6524	74%
Mass per Unit Area	ASTM D 6475	0.42 lb/yd ² (228 g/m ²)
MD-Tensile Strength Max.	ASTM D 4595	249.6 lb/ft (3.66 kN/m)
TD-Tensile Strength Max.	ASTM D 4595	134.4 lb/ft (1.97 kN/m)
MD-Elongation	ASTM D 4595	21.5%
TD-Elongation	ASTM D 4595	18.0%
Swell	ECTC Procedure	55%
Water Absorption	ASTM D 1117/ECTC	415%
Bench-Scale Rain Splash	ECTC Method 2	SLR = 10.7 @ 2 in/hr
Bench-Scale Rain Splash	ECTC Method 2	SLR = 13.1 @ 4 in/hr
Bench-Scale Rain Splash	ECTC Method 2	SLR = 16.1 @ 6 in/hr
Bench-Scale Shear	ECTC Method 3	2.16 lb/ft ² @ 0.5" soil loss
Germination Improvement	ECTC Method 4	345%

* 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.

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

