American Excelsior Company®

Earth Science Division

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PRODUCT DATA SHEET
AEC PREMIER COCONUT™

DESCRIPTION

AEC Premier Coconut erosion control blanket (ECB) consists of coconut fibers. The fibers are evenly distributed throughout the entire area of the blanket. The top and bottom of each blanket is covered with HV polypropylene netting. AEC Premier Coconut shall be manufactured in the U.S.A.

AEC Premier Coconut has a design soil loss ratio (event-based RUSLE C factor) of .05 and is typically suitable for slopes up to 1H:1V. AEC Premier Coconut is rated for channel flows up to 9.0 ft/s (2.7 m/s) and 2.25 lb/ft^2 (108 Pa) shear stress.

PHYSICAL PROPERTIES

AEC Premier 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[a]	50.0 lb (22.7 kg)
Mass per Unit Area (± 10%)	0.50 lb/yd^2 (0.27 kg/m^2)
Net Openings	0.75 in x 0.75 in (19.1 mm x 19.1 mm)

TYPICAL INDEX VALUES

Index Property	Test Method	Value
Thickness	ASTM D 6525	0.271 in (6.88 mm)
Light Penetration	ASTM D 6567	23.5%
Resiliency	ASTM D 6524	83%
Mass per Unit Area	ASTM D 6475	0.459 lb/yd^2 (0.249 kg/m^2)
MD-Tensile Strength Max.	ASTM D 6818	334.8 lb/ft (4.89 kN/m)
TD-Tensile Strength Max.	ASTM D 6818	164.4 lb/ft (2.4 kN/m)
MD-Elongation	ASTM D 6818	28.4%
TD-Elongation	ASTM D 6818	31.1%
Swell	ECTC Procedure	20.3%
Water Absorption	ASTM D 1117/ECTC	287%
Bench-Scale Rain Splash	ASTM D 7101	SLR = 7.52 @ 2 in/hr [b,c]
Bench-Scale Rain Splash	ASTM D 7101	SLR = 10.93 @ 4 in/hr [b,c]
Bench-Scale Rain Splash	ASTM D 7101	SLR = 24.81 @ 6 in/hr [b,c]
Bench-Scale Shear	ASTM D 7207	2.56 lb/ft^2 @ 0.5 in soil loss [c]
Germination Improvement	ASTM D 7322	449%

[a] Weight is based on a dry fiber weight basis at time of manufacture. Baseline moisture content of AEC Premier Coconut fibers is 20%.

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