American Excelsior Company®
Earth Science Division

Proud Participant in NTPEP and Proud Member of:

Product Participant of:

PRODUCT DATA SHEET
CURLEX® NETFREE™

DESCRIPTION

Curlex NetFree erosion control blanket (ECB) consists of a specific cut of naturally seed free Great Lakes Aspen curled wood excelsior with 80% six-inch fibers or greater fiber length. It is of consistent thickness with fibers evenly distributed throughout the entire area of the blanket. Curlex NetFree is a 100% biodegradable ECB. Curlex NetFree shall be manufactured in the U.S.A.

Curlex NetFree has a design soil loss ratio (event-based RUSLE C factor) of .063 and is typically suitable for slopes up to 3H:1V. Curlex NetFree is rated for channel flows up to 3.0 ft/s (0.9 m/s) and 1.0 lb/ft^2 (48 Pa) shear stress[a].

[a] Curlex NetFree should always be installed in the same direction as anticipated flows.

PHYSICAL PROPERTIES

Curlex NetFree measurements at time of manufacturing:

Width	8.0 ft (2.4 m)
Length	90.0 ft (27.4 m)
Area	80.0 yd^2 (66.9 m^2)
Weight[b]	58.4 lb (26.5 kg)
Fiber Count	≈7,000 per yd^2 (≈8,400 per m^2)
Fiber Length (80% min.)	≥6.0 in (≥15.2 cm)
Mass per Unit Area (± 10%)	0.73 lb/yd^2 (0.40 kg/m^2)

TYPICAL INDEX VALUES

Index Property	Test Method	Value
Thickness	ASTM D 6525	0.39 in (9.9 mm)
Light Penetration	ASTM D 6567	38%
Resiliency	ASTM D 6524	66%
Mass per Unit Area	ASTM D 6475	0.64 lb/yd^2 (0.347 kg/m^2)
MD-Tensile Strength Max.	ASTM D 6818	158.4 lb/ft (2.31 kN/m)
TD-Tensile Strength Max.	ASTM D 6818	14.5 lb/ft (0.21 kN/m)
MD-Elongation	ASTM D 6818	14%
TD-Elongation	ASTM D 6818	7.7%
Swell	ECTC Procedure	96%
Water Absorption	ASTM D 1117/ECTC	278%
Bench-Scale Rain Splash	ECTC Method 2	SLR = 6.14 @ 2 in/hr [c,d]
Bench-Scale Rain Splash	ECTC Method 2	SLR = 7.21 @ 4 in/hr [c,d]
Bench-Scale Rain Splash	ECTC Method 2	SLR = 8.47 @ 6 in/hr [c,d]
Bench-Scale Shear	ECTC Method 3	1.9 lb/ft^2 @ 0.5 in soil loss [d]
Germination Improvement	ECTC Method 4	535%

[b] Weight is based on a dry fiber weight basis at time of manufacture. Baseline moisture content of Great Lakes Aspen excelsior is 22%.

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

MADE IN THE U.S.A

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