American Excelsior Company®
Earth Science Division

Proud Participant in NTPEP and Proud Member of:

PRODUCT DATA SHEET
CURLEX® HIGH VELOCITY™

DESCRIPTION

Curlex High Velocity (HV) 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. The top and bottom of each blanket is covered with HV black net. Curlex High Velocity is also available as QuickGRASS® (green pigment). Curlex High Velocity shall be manufactured in the U.S.A.

Curlex HV has a design soil loss ratio (event-based RUSLE C factor) of .022 and is typically suitable for slopes up to .75H:1V. Curlex HV is rated for channel flows up to 11 ft/s (3.4 m/s) and 3.25 lb/ft^2 (156 Pa) shear stress.

PHYSICAL PROPERTIES

Curlex High Velocity measurements at time of manufacturing:

Width		4.0 ft (1.2 m)	8.0 ft (2.4 m)
Length		100.0 ft (30.5 m)	50.0 ft (15.2 m)
Area		44.4 yd^2 (37.1 m^2)	44.4 yd^2 (37.1 m^2)
Weight[a]		71.9 lb (32.6 kg)	71.9 lb (32.6 kg)
Fiber Count		≈15,500 per yd^2 (≈18,600 per m^2)	≈15,500 per yd^2 (≈18,600 per m^2)
Fiber Length (80% min.)		≥6.0 in (≥15.2 cm)	≥6.0 in (≥15.2 cm)
Mass per Unit Area (± 10%)		1.62 lb/yd^2 (0.88 kg/m^2)	1.62 lb/yd^2 (0.88 kg/m^2)
Net Openings	Polypropylene	0.75 in x 0.75 in (19.1 mm x 19.1 mm)	0.75 in x 0.75 in (19.1 mm x 19.1 mm)
	FibreNet™ (Jute)	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

Index Property	Test Method	Value
Thickness	ASTM D 6525	0.537 in (13.6 mm)
Light Penetration	ASTM D 6567	7.4%
Resiliency	ASTM D 1777/ECTC	53%
Mass per Unit Area	ASTM D 5261/ECTC	1.26 lb/yd^2 (0.684 kg/m^2)
MD-Tensile Strength Max.	ASTM D 6818	279.6 lb/ft (4.08 kN/m)
TD-Tensile Strength Max.	ASTM D 6818	213.6 lb/ft (3.12 kN/m)
MD-Elongation	ASTM D 6818	23.1%
TD-Elongation	ASTM D 6818	24.7%
Swell	ECTC Procedure	48%
Water Absorption	ASTM D 1117/ECTC	194%
Bench-Scale Rain Splash	ASTM D 7101	SLR = 12.84 @ 2 in/hr [b,c]
Bench-Scale Rain Splash	ASTM D 7101	SLR = 12.27 @ 4 in/hr [b,c]
Bench-Scale Rain Splash	ASTM D 7101	SLR = 11.76 @ 6 in/hr [b,c]
Bench-Scale Shear	ASTM D 7207	4.2 lb/ft^2 @ 0.5 in soil loss [c]
Germination Improvement	ASTM D 7322	616%

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

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

MADE IN THE U.S.A

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