



PRODUCT DATA SHEET **CURLEX® I**

DESCRIPTION

Curlex I 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 of each blanket is covered with degradable polypropylene netting. Curlex I is also available as QuickGRASS® (green pigment). Curlex I shall be manufactured in the U.S.A.

Curlex I has a design soil loss ratio (event-based RUSLE C factor) of .018 and is typically suitable for slopes up to 2H:1V. Curlex I is rated for channel flows up to 7.0 ft/s (2.1 m/s) and 1.75 lb/ft² (84 Pa) shear stress.

PHYSICAL PROPERTIES

Curlex I measurements at time of manufacturing:

Width	4.0 ft (1.2 m)	8.0 ft (2.4 m)	16.0 ft (4.9 m)
Length	112.5 ft (34.29 m)	112.5 ft (34.29 m)	112.5 ft (34.29 m)
Area	50.0 yd ² (41.8 m ²)	100.0 yd ² (83.6 m ²)	200.0 yd ² (167.2 m ²)
Weight ¹	36.5 lb (16.6 kg)	73.0 lb (33.1 kg)	146.0 lb (66.2 kg)
Fiber Count	≈7,000 per yd ² (≈8,400 per m ²)	≈7,000 per yd ² (≈8,400 per m ²)	≈7,000 per yd ² (≈8,400 per m ²)
Fiber Length (80% min.)	≥6.0 in (≥15.2 cm)	≥6.0 in (≥15.2 cm)	≥6.0 in (≥15.2 cm)
Mass per Unit Area (± 10%)	0.73 lb/yd ² (0.40 kg/m ²)	0.73 lb/yd ² (0.40 kg/m ²)	0.73 lb/yd ² (0.40 kg/m ²)
Net Openings	1.0 in x 2.0 in (25.4 mm x 50.8 mm)	1.0 in x 2.0 in (25.4 mm x 50.8 mm)	1.0 in x 2.0 in (25.4 mm x 50.8 mm)

TYPICAL INDEX VALUES

<u>Index Property</u>	<u>Test Method</u>	<u>Value</u>
Thickness	ASTM D 6525	0.411 in (10.44 mm)
Light Penetration	ECTC Procedure	45%
Resiliency	ASTM D 1777/ECTC	59%
Mass per Unit Area	ASTM D 5261/ECTC	0.57 lb/yd ² (309 g/m ²)
MD-Tensile Strength Max.	ASTM D 6818	78.0 lb/ft (1.14 kN/m)
TD-Tensile Strength Max.	ASTM D 6818	37.2 lb/ft (0.54 kN/m)
MD-Elongation	ASTM D 6818	20.3%
TD-Elongation	ASTM D 6818	14.3%
Swell	ECTC Procedure	49%
Water Absorption	ASTM D 1117/ECTC	253%
Bench-Scale Rain Splash	ASTM D 7101	SLR = 4.12 @ 2 in/hr ^{2,3}
Bench-Scale Rain Splash	ASTM D 7101	SLR = 4.43 @ 4 in/hr ^{2,3}
Bench-Scale Rain Splash	ASTM D 7101	SLR = 4.79 @ 6 in/hr ^{2,3}
Bench-Scale Shear	ASTM D 7207	2.32 lb/ft ² @ 0.5 in soil loss ³
Germination Improvement	ASTM D 7322	572%

¹ Weight is based on a dry fiber weight basis at time of manufacture. Baseline moisture content of Great Lakes Aspen excelsior is 22%.

² SLR is the Soil Loss Ratio, as reported by NTPEP/AASHTO. ³ Bench-scale index values should not be used for design purposes.

