



EROSION CONTROL  
TECHNOLOGY COUNCIL  
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DIRECTING MEMBER



## **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/ft<sup>2</sup> (84 Pa) shear stress.

### **PHYSICAL PROPERTIES**

Curlex I measurements at time of manufacturing:

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

<b>Index Property</b>	<b>Test Method</b>	<b>Value</b>
Thickness	ASTM D 6525	0.274 in (6.96 mm)
Light Penetration	ASTM D 6567	29.5%
Resiliency	ASTM D 1777/ECTC	59%
Mass per Unit Area	ASTM D 6475	0.623 lb/yd <sup>2</sup> (0.338 kg/m <sup>2</sup> )
MD-Tensile Strength Max.	ASTM D 6818	93.6 lb/ft (1.37 kN/m)
TD-Tensile Strength Max.	ASTM D 6818	25.2 lb/ft (0.37 kN/m)
MD-Elongation	ASTM D 6818	26.3%
TD-Elongation	ASTM D 6818	24.5%
Swell	ECTC Procedure	49%
Water Absorption	ASTM D 1117/ECTC	236%
Bench-Scale Rain Splash	ASTM D 7101	SLR = 4.12 @ 2 in/hr <sup>b,c</sup>
Bench-Scale Rain Splash	ASTM D 7101	SLR = 4.43 @ 4 in/hr <sup>b,c</sup>
Bench-Scale Rain Splash	ASTM D 7101	SLR = 4.79 @ 6 in/hr <sup>b,c</sup>
Bench-Scale Shear	ASTM D 7207	2.32 lb/ft <sup>2</sup> @ 0.5 in soil loss <sup>c</sup>
Germination Improvement	ASTM D 7322	Pass

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

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





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## LOCATIONS & CONTACT INFO

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- Wall Grids
- Slope Stabilization

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- GCLs, PVC, HDPE, LLDPE, EPDM, Granular Bentonite

### SEDIMENT CONTROL

Inlet Protection

- Grated Inlet, Curb Inlet, Area Inlet Protection

Ditch Checks

- Triangle Silt Dike
- GeoRidge

Perimeter Protection

- High and Low-Porosity Silt Fence, Straw Wattles, Silt Socks
- Safety Fence

Flocculants & Water Treatment

- Polymer-Based & Natural Flocculants

Sediment Basin Skimmers

Dewatering Bags

Trackout Control

- FODS
- Rumble Grates

Turbidity Curtains

### EROSION CONTROL

Basic Hydraulically Applied Mulches

- Wood
- Paper
- Blends
- Straw

High-Performance Hydraulically

Applied Products

- BFM
- FGM
- Additives & Tackifiers

Temporary Erosion Control Blankets

- Coir & Jute Mat/Nettings
- Short-Term ECBs
- Extended-Term ECBs

Permanent Erosion Control Blankets

- Turf Reinforcement Mats
- HP-TRMs
- Anchor Reinforced Vegetation System

Structural BMPs

- Transition Mats
- Geoweb Cellular Confinement
- Composite Vegetated Armor System
- Flex MSE Vegetated Wall System
- Articulated Concrete Block
- Gabions
- Grout-Filled Geotextile Mats

Vegetation Establishment

- Native Seed & Turf Seed
- Fertilizers
- Organic Soil Additives
- Stratavault Soil Cells

### STORMWATER MANAGEMENT

Water Quality

- Inlet Filter Boxes
- Pre-Treatment Chamber
- Nutrient Separating Baffle Boxes
- High-Flow Biofiltration Media
- Hydrodynamic Separators
- Stratavault

Water Quantity

- Modular Underground Storage Systems
- Chamber Detention Systems

Drainage

- HDPE Swale Liner
- Pipe & Fittings
- Drainage Composites
- Strip Drain

Inlet Structures

- PVC
- Drain Basins, In-Line Drains
- Landscape

Permeable Pavers

- Permeable Articulating Concrete Block
- Grass Pavers
- Gravel Pavers
- Concrete Pavers

### SPECIALTY

Natural & Synthetic Coir Fiber Logs

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Root Barrier System

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