American Excelsior Company®
Earth Science Division

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# 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® (Dyed Green). 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$^2$ (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

| Index Property | Test Method | Value |
|---|---|---|
| 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 (1.1 kN/m) |
| TD-Tensile Strength Max. | ASTM D 6818 | 37.2 lb/ft (0.5 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.

MADE IN THE U.S.A

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