

# Curlex<sup>®</sup> CL Blankets

## Excelsior Erosion Control Blankets

33% more material per roll compared to straw reduces labor and freight costs



Innovative erosion and sediment control solutions are the norm at American Excelsior Company because our Curlex fibers are the backbone of our products. Curlex fibers have a unique ability to expand and contract when wet and when combined with “barbed” fibers, Curlex CL fibers actually CLing to each other. Project owners, consultants, specifiers, and landscape contractors wish to have many choices when selecting erosion control blankets (ECBs). That is why American Excelsior Company, the inventor of biodegradable erosion control blankets, innovated Curlex CL, which is a cost effective lighter version of standard Curlex, which provides performance and vegetation establishment benefits superior to straight lined fiber blankets such as straw. Curlex CL offers the best of both worlds - all the unique benefits of the time proven Curlex fiber and a competitive price. Curlex CL is your new solution to basic single net and double net ECB applications.

### Typical Applications

- Utility and pipeline right-of-ways
- Highway embankments, ditch bottoms and slopes, bridges, approaches and medians
- Residential, commercial, and industrial developments
- Landfill construction
- Urban drainage
- Slope stabilization
- Golf course fairways, roughs and waterways

### Material Characteristics

Curlex CL blankets consist of unique softly barbed, interlocking, curled, Great Lakes Aspen excelsior fibers. They do not contain any seeds. Curlex blankets are specifically designed to promote ideal growing conditions for seeds, while simultaneously protecting topsoil from wind and water erosion. Curlex blankets are designed with a built-in swell factor - wet curled excelsior fibers slightly expand in thickness and interlock to form a strong fiber matrix. This allows the fibers to provide intimate contact with local terrain. Water flow is trained to follow the curled fiber matrix. The roughness of the curled excelsior matrix slows the velocity to a point where gravity takes over, which allows moisture to slowly seep into the topsoil to promote ideal growing conditions. We offer a green color-coded plastic netting for applications requiring UV resistance, strength, and longevity.

Our photo-degradable QuickMow™ netting is recommended for urban, golf course, and certain roadside projects. It is color-coded (white) to identify it as a rapid breakdown, polypropylene netting designed for use in areas to be mowed.

Curlex CL blankets are offered in rolls that are longer than other standard blankets. At a length of 150 feet, 33% more product makes it on each truck, which is imperative with the condition of today's fuel industry. In addition, labor costs are reduced by expedited installation with longer rolls and because there are fewer seams to deal with.

### Performance Capabilities

| Product      | Slopes              | Shear Stress Rating              |
|--------------|---------------------|----------------------------------|
| Curlex I CL  | 2H:1V and flatter   | 77 Pa (1.60 lb/ft <sup>2</sup> ) |
| Curlex II CL | 1.5H:1V and flatter | 86 Pa (1.80 lb/ft <sup>2</sup> ) |

# Suggested Specifications

## Curlex I CL (single net) and Curlex II CL (double net)

A specific cut of Great Lakes Aspen curled wood excelsior with 80% six-inch fibers or greater fiber length. It shall be of a consistent thickness, with fibers evenly distributed throughout the entire area of the blanket. The material does not contain any seeds or chemical additives. The top of each Curlex I CL shall be covered with netting. The top and bottom of each Curlex II CL shall be covered in netting



|                     |  |
|---------------------|--|
| Recommended Use     | Curlex I CL: Slopes to 2H:1V; Channels to 5.0 ft/s, shear stress to 1.60 lb/ft <sup>2</sup><br>Curlex II CL: Slopes to 1.5H:1V; Channels 7.3 ft/s, shear stress to 1.80 lb/ft <sup>2</sup> |
| Roll Sizes          | 4 ft x 150 ft (66.7 yd <sup>2</sup> ),<br>8 ft x 150 ft (133.3 yd <sup>2</sup> ),<br>16 ft x 150 ft (266.7 yd <sup>2</sup> )   |
| Weight <sup>a</sup> | 0.55 lb/yd <sup>2</sup>  |
| Netting Options     | Green, QuickMow™ White (90 day)  |
| Color               | Natural Aspen or QuickGRASS®(green)  |

<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%

## Comparison of Curlex CL and Straw Blankets



Curlex CL      Single Net Straw

| Product                              | Curlex CL   | Typical Straw Blanket                              |
|--------------------------------------|---|--|
| Fiber                                | Engineered Curled Excelsior for E&S Control                           | Staight, Agricultural By-Product                   |
| Fiber Action During Hydraulic Events | Expand, Dig into Soil, and Form Strong Continuous Interlocking Matrix | Float  |
| Roll Length                          | 150.0 ft (45.7 m)   | 112.5 ft (34.3 m)                                  |
| Roll Area                            | 133.3 yd <sup>2</sup> (111.5 m <sup>2</sup> )                         | 100.0 yd <sup>2</sup> (83.6 m <sup>2</sup> )       |
| Side Seams                           | Not Required  | Minimum 2 in – 4 in Overlap Required               |
| Mass per Area ±10%                   | 0.55 lb/yd <sup>2</sup> (0.30 kg/m <sup>2</sup> )                     | 0.50 lb/yd <sup>2</sup> (0.27 kg/m <sup>2</sup> )  |
| Weed Seeds                           | Naturally Seed Free   | May be Certified Weed Seed Free Only               |
| Slopes                               | ≤ 2H:1V to ≤ 1.5H:1V  | ≤ 3H:1V to ≤ 2H:1V                                 |
| Channels (shear)                     | 1.60 lb/ft <sup>2</sup> to 1.80 lb/ft <sup>2</sup>                    | 1.55 lb/ft <sup>2</sup> to 1.75 lb/ft <sup>2</sup> |
| Longevity <sup>b</sup>               | ≤ 15, ≤ 18 months   | ≤ 12 month   |
| Price                                | Similar to Straw Blanket  | Similar to Curlex CL                               |

<sup>b</sup>Longevity varies by region due to differences in climatic conditions.

Disclaimer: Curlex CL is a system for erosion control and re-vegetation on slopes and channels. American Excelsior Company (AEC) believes that the information contained herein to be reliable and accurate for use in erosion control and re-vegetation applications. However, since physical conditions vary from job site to job site and even within a given job site, AEC makes no performance guarantees and assumes no obligations or liability for the reliability or accuracy of information contained herein for the results, safety, or suitability of using Curlex CL, or for damages occurring in connection with the installation of any erosion control product whether or not made by AEC or its affiliates, except as separately and specifically made in writing. These specifications are subject to change without notice.