Curlex Sediment Logs use excelsior fibers to reduce hydraulic energy & filter sediment-laden runoff. Tired of straw and hay bale checks being blown out and the fibers washed downstream to clog the nearest outlet? Fed up with spending all of your time and effort installing silt fence only to see it get knocked down when it rains or a good wind comes along? How about when you have to go back and pick up the loose fibers and/or remove those worn out silt fences and take them to the landfill? Next time, consider giving our Bioengineered Sediment Logs a try. Water filters through (not underneath) the diameter of the porous, interlocked fiber log matrix. As it does, velocity is naturally reduced and sediment is collected on the upstream side of the excelsior fiber log. Install Curlex Sediment Logs over bare soil, over rolled erosion control products, on steep slopes, around inlets and outlets, or around jobsites for perimeter control.

**Material Characteristics**

Sediment Logs are versatile excelsior logs comprised of an outside containment fabric that is filled with unique Curlex fibers. Curlex fibers are made of Great Lakes Aspen excelsior fibers. The fibers are curled with soft interlocking barbs and 80% will be six inches in length or longer. The outside, open weave containment fabric is degradable, thus Sediment Logs will degrade in place if not removed. Sediment Logs are porous, allowing water to pass through the excelsior matrix, progressively slowing velocity and filtering sediment as it passes through the log diameter. Sediment Logs are extremely flexible and contour to the terrain to maintain intimate contact with the subgrade. In addition, they come with five other benefits; lightweight, no trenching, no seeds, no disposal hassle, and they may be reusable depending on the application.

**Performance Capabilities**

**Product Names / Nominal Diameters**

- (20 in) energy dissipation in heavy duty concentrated flow areas, slope interruption, inlet protection, perimeter control
- (12 in) energy dissipation in mild to medium concentrated flow areas, slope interruption, inlet protection, perimeter control
- (9 in) energy dissipation in mild concentrated flow areas, slope interruption, inlet protection, perimeter control
- (6 in) energy dissipation in low concentrated flow areas, slope interruption, inlet protection, perimeter control

**Typical Applications**

- Ditch bottoms, swales, and waterways
- Over bare soils and/or temporary & turf reinforcement blankets
- Drop structures and let down structures
- 360 degree protection around catch basins & drop inlet structures
- Curb & drainage outlets
- Project ingress & egress termination points
- As wattles on steep slopes
- Site perimeter control
- Use in place of bales, silt fence, reinforced silt fence, and rock checks

American Excelsior Company
Earth Science Division
Arlington, Texas (800) 777-SOIL • www.curlex.com
General

Sediment Log consists of an outside, open weave, containment fabric filled with Great Lakes Aspen curled excelsior fibers. Its purpose is to provide a flexible, lightweight, porous, sediment control device demonstrating the ability to conform to terrain details, dissipate water velocity, and filter contaminated flows.

Product

Sediment Control Device shall be Curlex Sediment Log, as manufactured by American Excelsior Company. Curlex Sediment Logs shall be made of Great Lakes Aspen Excelsior fibers encased in an outside, open weave containment fabric secured on each end. Fibers shall be curled with soft, interlocking barbs to form a strong, organic filtration matrix. A minimum of 80 percent of the fibers shall be 15 cm (6 in) or greater in length. Fibers shall be evenly distributed throughout the diameter and length of the Sediment Log. Excelsior fibers shall be seed free. Density of sediment logs shall not exceed 2.6 lb/ft³ to ensure necessary flow rates for filtering. Curlex Sediment Log shall be manufactured in the U.S.A. at company locations where QA/QC is implemented and managed by the manufacturer. Field fabricated products and products made by anyone other than the manufacturer (i.e. distributors, dealers, etc.) shall not be accepted.

SUGGESTED SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product Name/Nominal Diameter</th>
<th>20 in</th>
<th>12 in</th>
<th>9 in</th>
<th>6 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length (±10%)</td>
<td>3.05 m (10 ft)</td>
<td>3.05 m (10 ft)</td>
<td>7.62 m (25 ft)</td>
<td>7.62 m (25 ft)</td>
</tr>
<tr>
<td>Weight (±10%)</td>
<td>13.62 kg (30 lb)</td>
<td>9.02 kg (20 lb)</td>
<td>11.35 kg (25 lb)</td>
<td>5.45 kg (12 lb)</td>
</tr>
<tr>
<td>Net opening (hexagonal-shaped)</td>
<td>3.2 cm (1.3 in)</td>
<td>2.5 cm (1 in)</td>
<td>1.9 cm (.75 in)</td>
<td>1.3 cm (.5 in)</td>
</tr>
</tbody>
</table>

Performance Requirements

- **Slope Erosion**: Reduce by a minimum of 70% of bare soil slopes
- **Channel Erosion**: Reduce by a minimum of 50% of bare soil channels
- **pH Absorption**: Ending pH shall not exceed 8.3
- **Functional Longevity**: ≤ 24 months
- **Oil Sorbent Material**: U.S. E.P.A. documentation for preapproval

Curlex Sediment Logs Design Values With Comparisons To Typical Straw Wattles

<table>
<thead>
<tr>
<th>Product Name/Nominal Diameter</th>
<th>Channel Design</th>
<th>Slope Design</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Density (lb/ft³)</td>
<td>GPM/ft²</td>
</tr>
<tr>
<td>6in Curlex Sediment Log</td>
<td>2.4</td>
<td>42.5</td>
</tr>
<tr>
<td>9in Straw Wattle</td>
<td>4.5</td>
<td>7.5</td>
</tr>
<tr>
<td>9in Curlex Sediment Log</td>
<td>2.3</td>
<td>42.5</td>
</tr>
<tr>
<td>12in Straw Wattle</td>
<td>3.8</td>
<td>8.0</td>
</tr>
<tr>
<td>12in Curlex Sediment Log</td>
<td>2.5</td>
<td>40.0</td>
</tr>
<tr>
<td>20in Curlex Sediment Log</td>
<td>1.4</td>
<td>37.5</td>
</tr>
</tbody>
</table>

Footnotes:

1. Custom sizes available
2. Weight and density are based on a dry weight basis at time of manufacture. Baseline moisture content of Great Lakes Aspen Excelsior, AEC Premier Straw and AEC Premier Coconut fibers are 22%, 15% and 20% respectively.
4. Based on ASTM D7208
5. Based on ASTM D1117, modified
6. Functional Longevity varies from region to region because of differences in climatic conditions.
7. Based on ASTM D5141
8. Based on large simulated rainfall testing

Disclaimer: Curlex Sediment Log is a system for sediment control in channels and on slopes. American Excelsior Company (AEC) believes that the information contained herein to be reliable and accurate for use in sediment control 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 obligation or liability for the reliability or accuracy of information contained herein for the results, safety, or suitability of using Sediment Log, 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 by AEC. These specifications are subject to change without notice.

If you would like to receive more information or consult with one of our Customer Care Center Specialists, please call us toll free at (888-352-9582)

PDF download specifications available in the Technical Support Library at www.curlex.com

Form#205/041015E