

Curlex[®] Sediment Logs[®]

Excelsior Sediment Control Device

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 Lake 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 six other benefits; lightweight, no trenching, no weed seeds, no disposal hassles, are re-usable, and they hold their shape.

PERFORMANCE CAPABILITIES

Diameters

Type I - 50cm (20 in) energy dissipation in heavy duty concentrated flow areas, slope interruption, inlet protection, perimeter control

Type II - 30cm (12 in) energy dissipation in mild to medium concentrated flow areas, slope interruption, inlet protection, perimeter control

Type III - 23cm (9 in) energy dissipation in mild concentrated flow areas, slope interruption, inlet protection, perimeter control

Type IV - 15cm (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



SUGGESTED SPECIFICATIONS

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 and dissipate water velocity in concentrated flow areas.

Product

Sediment Control Device shall be Curlex Sediment Log, as manufactured by American Excelsior Company. Curlex Sediment Logs shall be made of Great Lakes Excelsior fibers encased in an outside, open weave containment fabric. 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 15cm (6 in) or greater in length. Fibers shall be evenly distributed throughout the diameter and length of the Sediment Log. Excelsior fibers shall be weed seed free. Excelsior color shall be standard (natural). Netting at each end of the log shall be secured to assure fiber containment.

	TYPE I*	TYPE II*	TYPE III*	TYPE IV*
Product name	50 cm (20 in)	30 cm (12 in)	23 cm (9 in)	15 cm (6 in)
Length (±10%)	3.05 m (10 ft)	3.05 m (10 ft)	7.62 m (25 ft)	7.62 m (25 ft)
Weight (±10%)**	13.62 kg (30 lb)	9.02 kg (20 lb)	11.35 kg (25 lb)	5.45 kg (12 lb)
Net opening (hexagonal-shaped)	2.5 cm (1 in)	2.5 cm (1 in)	1.9 cm (.75 m)	1.3 cm (.5 m)

*Custom sizes available

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

Installation

Sediment Logs are typically installed lying flat on the ground and not trenched. Project specifications should be reviewed for any special installation requirements. They shall be secured to the subgrade by a 1 inch diameter wood stake every 2 lineal feet across their length. Stakes shall be intertwined with the outer mesh only (on the downstream side only) and placed in the ground a minimum of 24". Six and nine inch diameter Sediment Logs may also be anchored with biodegradable or steel staples on slopes or in areas of low concentrated flows.



Sediment Logs shall be located as shown on the plans or as directed by the project engineer. Typically, Sediment Logs shall be installed in the

swale or channel bottom approximately 100 ft apart. Allow the installation to continue up the side slopes 3 ft above the high flow line, perpendicular to the flow of water. Initially, Sediment Logs should be installed to intercept water flow and collect sediment flow at site terminal points. Sediment Logs shall not be stacked. In order to slow water flow velocity, Sediment Logs may be spaced at 25 ft to 50 ft intervals. Once water flow velocity is slowed, normal spacing should be approximately 100 ft apart.

Sediment Logs may be installed over bare soil, over rolled erosion control products, on steep slopes, around inlets and outlets, or around jobsites for perimeter control. Sediment Logs should remain in place until fully established vegetation and root systems have completely developed and can survive on their own. Sediment Logs that are not removed from the job site will degrade in place.

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