

# Curlex® SFW

## Excelsior Sediment Control Device



American Excelsior Company has innovated another product to answer an industry request. Straw wattles are very common, but they come with some inherent drawbacks as experienced by those who have used them before. Straw wattles contain agricultural straw fibers that contain seeds, and the small dusty fibers commonly fall out of the containment netting. Don't be fooled - straw wattles may be certified weed seed free, but they still contain seeds. On the other hand, Curlex SFW (short fiber wood) are manufactured with seed-free excelsior fibers. Try Curlex SFW if you do not want to worry about the mess, species of seeds you will be introducing to your project, or wildlife destroying the product. Curlex SFW answer all the concerns of straw wattles while outperforming them, too. Curlex SFW available with Poly or Biodegradable netting.

### Typical Applications

- On hillslopes to break up slope length and overland flow
- Across channel bottoms to pool water and reduce flow velocities
- Any other applications where straw wattles are used

### Curlex® SFW Material Characteristics:

Product Name/Nominal Diameter	9.0 in	12.0 in	20.0 in
Minimum Diameter	8.5 in (21.6 cm)	11.5 in (29.2 cm)	19.0 in (48.3 cm)
Length (± 10%)	25.0 ft (7.6 m)	10.0 ft (3.1 m)	10.0 ft (3.1 m)
Weight <sup>a</sup> (± 10%)	50.0 lb (22.7 kg)	30.0 lb (13.6 kg)	60.0 lb (27.2 kg)
Density <sup>a</sup> (± 10%)	4.53 lb/ft <sup>3</sup> (72.56 kg/m <sup>3</sup> )	3.82 lb/ft <sup>3</sup> (61.19 kg/m <sup>3</sup> )	2.75 lb/ft <sup>3</sup> (44.05 kg/m <sup>3</sup> )

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



# Suggested Specifications

## Comparison of Curlex SFW and Typical Straw Wattles

Product	Curlex SFW	Typical Straw Wattle
Fiber	Curled Excelsior for E&S Control	Straight, Agricultural By-Product
Fiber Action During Hydraulic Event	Expand and Dig into Soil	Float
Warehousing	Clean, No Dust	Dirty, Dusty
Invasive Seeds	Naturally, Seed-Free	May Be Certified "Weed Seed-Free" at Best
Wildlife	No Seeds to Eat	Will Destroy & Break Apart to Eat Seeds in Straw
Applications	Similar to Straw Wattles	Similar to Curlex SFW
Installation	Similar to Straw Wattles	Similar to Curlex SFW
Price	Similar to Straw Wattles	Similar to Curlex SFW
P Factor <sup>a</sup>	≤ .50	.676 to .828
% Soil Retained <sup>a</sup>	≥ 50	17.2 to 32.4
Functional Longevity <sup>b</sup>	≤ 24 months	≤ 18 months

<sup>a</sup> Based on large-scale testing according to Kelsey, K., T. Johnson, and R. Vavra. 2006. "Needed Information: Testing, Analyses, and Performance Values for Slope Interruption and Perimeter Control BMPs." IECA Conference Proceedings. P. 171-181.

<sup>b</sup> Functional Longevity varies from region to region because of differences in climatic conditions.

## Staking Pattern Guide

### Notes:

1. Drawings are not scale.
2. Ends of product shall be turned slightly up slope.
3. Recommended stakes are wooden 1 1/8 in wide x 1 1/8 in thick by a minimum of 30 in long for 9 in and 12 in Curlex SFW and 48 in long for 20 in Curlex SFW. Stakes shall not extend above the Curlex SFW more than 2 in.

