

Curlex® SFW Wattles

Excelsior Erosion Control Blankets



American Excelsior Company has innovated another product to answer an industry request. Straw wattles are very common, but they come with some inherent draw backs 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) Wattles are manufactured with seed free excelsior fibers. Try Curlex SFW Wattles if you want a wattle as dense as straw, but 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 Wattles answer all the concerns of straw wattles, while out performing them too. Curlex SFW Wattles are designed to be dense like straw wattles, thus they pool water unlike Curlex® Sediment Log® that allow water to filter through their porous matrix.

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 Wattle 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 ^a (± 10%)	50.0 lb (22.7 kg)	30.0 lb (13.6 kg)	60.0 lb (27.2 kg)
Density ^a (± 10%)	4.53 lb/ft ³ (72.56 kg/m ³)	3.82 lb/ft ³ (61.19 kg/m ³)	2.75 lb/ft ³ (44.05 kg/m ³)

^a 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 Wattles and Typical Straw Wattles

Product	Curlex SFW Wattle	Typical Straw Wattle
Fiber:	Curled Excelsior for E&S Control	Straight, Agricultural By-Product
Fiber Action During Hydraulic Events:	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 Wattles
Installation:	Similar to Straw Wattles	Similar to Curlex SFW Wattles
Price:	Similar to Straw Wattles	Similar to Curlex SFW Wattles
P Factor ^a :	≤ .50	.676 to .828
% Soil Retained ^a :	≥ 50	17.2 to 32.4
Functional Longevity ^b :	≤ 24 months	≤ 18 months

^a 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.

^b 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 Wattles 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 Wattles and 48 in long for 20 in Curlex SFW Wattle. Stakes shall not extend above the Curlex SFW Wattle more than 2 in.

