



**PRODUCT DATA SHEET**  
**CURLEX® SEDIMENT LOG®**  
**(Biodegradable Version)**

**DESCRIPTION**

Curlex Sediment Log consists of a specific cut of naturally seed free Great Lakes Aspen wood excelsior with 80% of the fiber  $\geq 6$  inches in length inside a biodegradable, durable, flexible tubular containment material. Curlex Sediment Log shall be manufactured in the U.S.A. at company locations where QA/QC is implemented and managed by the manufacturer.

**PHYSICAL PROPERTIES**

Curlex Sediment Log measurements at time of manufacturing:

Product Name/Nominal Diameter	6.0 in	9.0 in	12.0 in	20.0 in
Minimum Diameter	5.5 in (14.0 cm)	8.0 in (20.3 cm)	11.0 in (27.9 cm)	18.0 in (45.7 cm)
Length ( $\pm 10\%$ )	25.0 ft (7.6 m)	25.0 ft (7.6 m)	10.0 ft (3.1 m)	10.0 ft (3.1 m)
Weight <sup>a</sup> ( $\pm 10\%$ )	12.0 lb (5.4 kg)	25.0 lb (11.3 kg)	20.0 lb (9.1 kg)	30.0 lb (13.6 kg)
Density <sup>a</sup> ( $\pm 10\%$ )	2.44 lb/ft <sup>3</sup> (39.09 kg/m <sup>3</sup> )	2.26 lb/ft <sup>3</sup> (36.20 kg/m <sup>3</sup> )	2.54 lb/ft <sup>3</sup> (40.69 kg/m <sup>3</sup> )	1.38 lb/ft <sup>3</sup> (22.11 kg/m <sup>3</sup> )

**CURLEX SEDIMENT LOG PERFORMANCE REQUIREMENTS**

Property	Value	Method
Flow Rate	$\geq 35$ GPM/ft <sup>2</sup>	ASTM D5141
Soil Retention Effectiveness	$\geq 96\%$	ASTM D7351
Channel Soil Loss Reduction	$\geq 50\%$	ASTM D7208
pH Buffering	$8 \pm 3$	ASTM D1117, modified
Functional Longevity <sup>b</sup>	$\leq 24$ months	Documented laboratory and field studies
Oil Sorbent	Preapproved	U.S. Environmental Protection Agency
Removal of Polynuclear Aromatic Hydrocarbons (PAHs)	$\geq 95\%$	Quantified research <sup>c</sup>
Fly Ash Filtration (TSS)	$\geq 78\%$	Quantified research <sup>d</sup>
Fly Ash Filtration (NTU)	$\geq 76\%$	Quantified research <sup>d</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%.

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

<sup>c</sup> Boving and Zhang, Chemosphere 54 (2004) 831-839.

<sup>d</sup> Kelsey, K. and M. Murley. (2017, January). Fly Ash Slurry Filtration Using Curlex® Sediment Log® - Quantifying Total Suspended Solids and Turbidity Reduction. Unpublished internal document, ErosionLab.

