

# CURLEX® BLOC

## Innovative Natural Filter & Shoreline Solution

WATER

WATER

### CURLEX® BLOC INTRODUCTION

Customers across North America have been asking for an American-made alternative to coir logs and American Excelsior Company has answered with the development of Curlex Bloc. Patent pending Curlex Blocs are manufactured in the U.S.A. with American fibers, as compared to coir fibers that are typically imported from half way across the planet. Curlex Blocs are designed to be functional<sup>1</sup> for 3+ years. The standard biodegradable containment material is designed to start degrading during the first year to allow voluntary seed and sediment into the Curlex fiber matrix. The matrix of the Curlex Bloc is the key to the product's performance capabilities. The containment material is a carrier to assist with product shipping and placement into the field.

### ENVIRONMENTALLY FRIENDLY

Curlex Blocs are manufactured from Great Lakes Aspen. Curlex Blocs are naturally seed free, non toxic, and native to North America.

#### FEATURES:

U.S. Made with U.S. Fibers

Made from Curlex

Flat/Rectangular Design

High Density

Organic

Moisture Retention

Sustainable Material

#### BENEFITS:

Supports U.S. economy and adds jobs; friendly carbon footprint compared to imported coir logs

Barbed fibers "cling" to one another to add strength and stability; excellent natural filter of fines and hydrocarbons

Allows for better stability and intimate soil contact

Better buffering of flow velocity

Can plant vegetation through matrix and natural fibers degrade over time

Promotes healthier growth

Renewable resource managed by sustainable forestry programs

### TYPICAL CURLEX BLOC SIZES:

PRODUCT NAME	CURLEX BLOC	CURLEX BLOC HD
Nominal Dimensions	18 in x 16 in (45.7 cm x 40.6 cm)	18 in x 16 in (45.7 cm x 40.6 cm)
Length (+ 10%, -0%)	8.0 ft (2.4 m)	8.0 ft (2.4 m)
Unit Weight <sup>2</sup> (± 10%)	14.0 lb/ft (20.8 kg/m)	18.0 lb/ft (26.8 kg/m)
Unit Ground Contact (minimum)	192 in <sup>2</sup> /ft (4,064.2 cm <sup>2</sup> /m)	192 in <sup>2</sup> /ft (4,064.2 cm <sup>2</sup> /m)
Density <sup>2</sup> (± 10%)	7.0 lb/ft <sup>3</sup> (112.1 kg/m <sup>3</sup> )	9.0 lb/ft <sup>3</sup> (144.1 kg/m <sup>3</sup> )

<sup>1</sup> Functional Longevity varies from region to region because of differences in climatic conditions.

<sup>2</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%.

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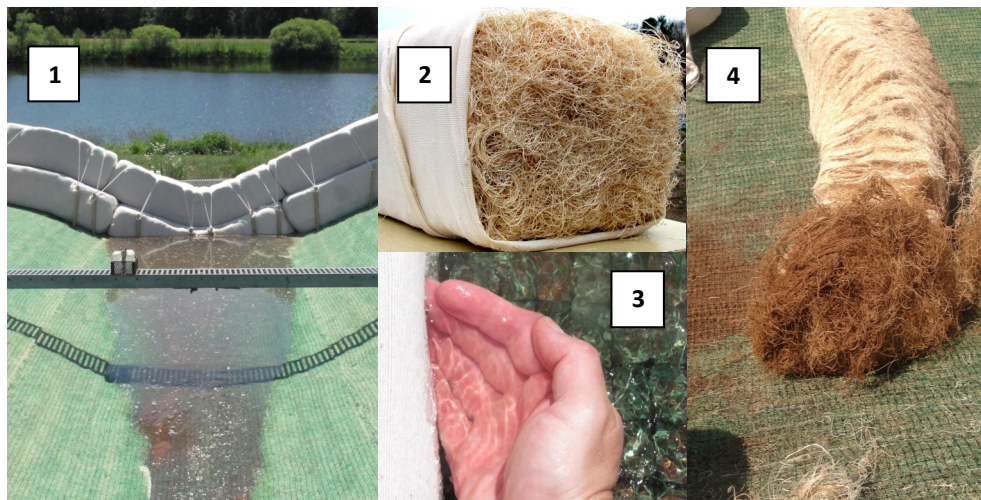
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### A VERSATILE PRODUCT

Curlex Bloc continues to be used in conjunction with vegetation on stream bank restorations and other shoreline applications with low energy and wave action, but each day contractors are finding new applications for the product such as replacing wire backed silt fence with Curlex Blocs to protect sensitive wetlands. Using versatile Curlex Blocs as natural filters is becoming more and more common each day. They are the most effective product we have seen that does not contain flocculating materials. Let us know if you have a new application for Curlex Bloc.

**Day of Install****3 Months****6 Months****12 Months****16 Months**

(Willow live stakes and native sod used in this stream bank application)



1. Contaminated water channelized through Curlex Bloc Filter Station
2. Cross-sectional view of unused Curlex Bloc fibers
3. Clear, clean water exiting Curlex Bloc Filter Station on down slope side
4. Cross-sectional view of fine sediments captured by Curlex Bloc matrix after the flow (containment material was removed from Curlex Bloc for photo)