



EROSION CONTROL  
TECHNOLOGY COUNCIL  
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## American Excelsior Company® YouTube Videos

### **Unrolling Curlex® Erosion Control Blankets**

Easy step-by-step instructions for opening and unrolling your Curlex Erosion Control Blanket.

<https://www.youtube.com/watch?v=-qIYFZWDPYg>

### **Pikeview Quarry Reclamation with Curlex II FibreNet**

The Pikeview Quarry in Colorado Springs, CO was the site of a 115 year-long limestone mining operation. After its closure, project personnel needed a proven erosion control blanket solution that could protect and revegetate the Quarry's numerous long and steep slopes. Over 422,000 yd<sup>2</sup> of Curlex II FibreNet were installed on the project. <https://youtu.be/pVuVDsRkuCU>

### **Installing Curlex® Blankets in a Channel**

Follow these steps to ensure that your Curlex blanket is installed correctly in channels. Proper trenching, overlap and stapling are key to a successful installation. <https://www.youtube.com/watch?v=arEDS0sGEek>

### **Installing Curlex Blankets on a Slope with Trench Methods A & B**

During installation of Curlex Blankets the start of the roll needs to be installed in a trench or rolled 3 feet over the crest of the slope. This video details Trench Method A & B used in installing Curlex Erosion Control Blankets. <https://www.youtube.com/watch?v=jGBbtKmUdtU>

### **Revegetating Waterways with Curlex ECBs**

Several agricultural swales needed to be remediated to avoid losing valuable crop soils to flood events. Curlex II was chosen to revegetate and protect the swales because it keeps soil and seeds in place, even during adverse weather conditions. Mechanically automated unrolling and stapling devices were used to install Curlex II in an efficient and effective manner. <https://youtu.be/EUBw4Zpir2A>

### **Curlex® vs Straw in a Channel**

Should erosion control blankets stay in contact with the soil? We think so. Curlex fiber blanket does not float with channelized sheet flow, but straw blankets float losing the intimate contact with the soil surface, so you lose soil. <https://www.youtube.com/watch?v=dQFhbgRduW8&feature=youtu.be>

### **Comparing ECB Fibers on Bulldozer Tracks**

How well an erosion control blanket (ECB) performs in the field depends heavily upon the type of fiber contained in its matrix. Uneven ground surfaces at jobsites that utilize heavy machinery and moisture from the environment present two formidable challenges to the effectiveness of ECBs. So, how do commonly used ECB fiber types respond when exposed to moisture on such surfaces?

<https://youtu.be/vpldgDhwLMg>



## **Curlex® Fiber Natural Mechanical Functions**

As Curlex fibers are wetted, they swell and dig into the soil. This “Velcro-like” connection reduces soil movement during erosive events, keeping soil, seed, and fertilizer in place. This allows seeds to germinate and vegetation to be established, which helps prevent future erosion. [https://youtu.be/G\\_Rg180IyV0](https://youtu.be/G_Rg180IyV0)

## **Creating Grassed Waterways with Curlex® Erosion Control Blankets**

Grassed waterways are vegetated channels used to reduce erosion, improve sedimentation, and remove pollution from surface waters. Using PAH-sorbent Curlex® blankets in constructing grass waterways is a natural solution that allows vegetation to grow quickly and minimizes the effects of erosion on the landscape. [https://youtu.be/3G\\_zy6xlghc](https://youtu.be/3G_zy6xlghc)

## **Curlex® SiltTRAP™**

Keep the soil on your site and off of the road with Curlex SiltTRAP. Curlex SiltTRAP provides an aesthetically pleasing green color for a clean, finished look for your development. Curlex SiltTRAP is made with proven Curlex engineered fibers. [https://www.youtube.com/watch?v=7f\\_Y1qjGg68](https://www.youtube.com/watch?v=7f_Y1qjGg68)

## **Curlex® Hi-Vis Excelsior Logs™**

Hi-Vis excelsior logs, made with proven Curlex excelsior fibers, are a highly visible and durable solution for those who desire controlled site access and perimeters around the jobsite. Polyethylene handles integrated into each log’s casing permit ease of transport and stacking, allowing personnel to arrange easily arrange and rearrange them. The Curlex fiber matrix also allows hi-vis logs to act as a complementary sediment control BMP. <https://youtu.be/Hf3KOMfePLI>

## **Filtering vs Damming Comparison Using ASTM D5141**

The flow rate of water through two sediment control devices with different fiber types is compared using a ASTM D5141 test apparatus. This comparison is one way to illustrate the difference between a “filtering” and a “damming” sediment control device. <https://youtu.be/pFIAq-aQMuc>

## **Curlex® Sediment Log® Flow Through vs. Straw Wattles**

One of the uses of Curlex Sediment Logs is to install them in ditches. Curlex Sediment Logs will slow water velocity and filter out sediment as ditches fill with storm water. Straw Wattles are dense and do not allow water to flow through them. <https://www.youtube.com/watch?v=PZ0DxDt9RTM>

## **Curlex® Sediment Log® Installation Over Curlex®**

Curlex Sediment Logs are a terrific addition to any channel project. They reduce velocity and capture sediment and other contaminants in the water. Installation is easy, just follow these simple steps. <https://www.youtube.com/watch?v=gKpPg4sZCuk>

## **Curlex® Sediment Log®: Iowa DOT**

American Excelsior's Curlex® Sediment Log® used during an Iowa DOT project provided protection during both a record-breaking rainfall in August 2018 and record-breaking snowfall during January and February 2019. <https://youtu.be/cedXFKYb4BU>

## **Fly Ash Slurry Filtration Using Curlex® Sediment Log®**

Fly ash samples were collected from a coal plant in Ohio. Channel simulators were built to determine the reduction of total suspended solids (TSS) and turbidity of fly ash slurry exposed to Curlex Enforcer® and Curlex Sediment Log over a ninety-minute period. The results were remarkable.

[https://www.youtube.com/watch?v=3V9Dwa\\_wFCw](https://www.youtube.com/watch?v=3V9Dwa_wFCw)



## **Channel Shear Stress Examples**

Channel shear stress examples from 2 psf to 8 psf at American Excelsior Company's ErosionLab test facility. See water flows ramped up to 8 psf in a vegetated channel with Recyclex TRM installation that has been in place for over 20 years. <https://www.youtube.com/watch?v=d8YFynl2Cdg>

## **Does Your TRM Float During Hydraulic Events?**

Surprisingly, several turf reinforcement mats (TRMs) available today float in water. Floating TRMs allow water under the TRM between anchoring devices during hydraulic flows, which leads to erosion. Intimate contact with the subgrade is critical to successful erosion control applications that use TRMs. Would you rather have your TRM floating or intimately contacting the subgrade during a hydraulic event? American Excelsior Company's Recyclex® family of TRMs do not float in water.

<https://www.youtube.com/watch?v=qYTQPPEDZIQ>

## **TriNet Recyclex TRM Soil Fill Installation**

A soil fill turf reinforcement mat (TRM) installation involves placing additional soil, seed, and soil amendments on top of the TRM after it is installed. Then, a degradable erosion control blanket (ECB) is installed over the seedbed to provide protection and encourage the vegetation's roots to grow down through the TRM and reinforce the root mass, an effect known as root reinforcement.

<https://youtu.be/RhImLmbG1Ks>

## **TriNet® Recyclex® Turf Reinforcement Mat (TRM)**

TriNet® Recyclex® is a three-netted turf reinforcement mat (TRM) made with 100% recycled synthetic fibers. It is designed for long-term protection against wind and water erosion and is a natural choice in place of stone or riprap in swales, ditch bottoms, and on long, steep slopes. It is designed to provide permanent service life and reinforcement between established vegetation/root systems and where vegetation alone requires extra protection from shear stress forces. It can also withstand vegetated hydraulic shear stresses up to 14 lb/ft<sup>2</sup>. <https://youtu.be/9BZN1B8lzGQ>

## **TriNet® Curlex® Turf Reinforcement Mat (TRM)**

TriNet® Curlex® is a three-netted bio-composite turf reinforcement mat (TRM). It is designed for long-term protection against wind and water erosion and is a natural choice in place of stone or riprap in swales, ditch bottoms, and on long, steep slopes. It is designed to provide permanent service life and reinforcement between established vegetation/root systems and where vegetation alone requires extra protection from shear stress forces. It can also withstand vegetated hydraulic shear stresses up to 13 lb/ft<sup>2</sup>.

<https://youtu.be/vYaH6jv0SxE>

## **Vegetated TriNet® Curlex® TRM Install**

This video walks through an example installation of American Excelsior Company's TriNet Curlex TRM, made with Great Lakes Aspen excelsior wood fibers. TriNet Curlex is designed to provide permanent service life and reinforcement between established vegetation and root systems on slopes and in channel bottoms. As a reminder, always follow installation guidelines and staple pattern guides (found on [www.curlex.com](http://www.curlex.com)) when installing your TriNet TRM. <https://youtu.be/eI74ZKZPDe4>



## **TriNet® Coconut Turf Reinforcement Mat (TRM)**

TriNet® Coconut is a three-netted bio-composite turf reinforcement mat (TRM). It is designed for long-term protection against wind and water erosion and is a natural choice in place of stone or riprap in swales, ditch bottoms, and on long, steep slopes. It is designed to provide permanent service life and reinforcement between established vegetation/root systems and where vegetation alone requires extra protection from shear stress forces. It can also withstand vegetated hydraulic shear stresses up to 12 lb/ft<sup>2</sup>.

[https://youtu.be/q\\_D51fGxcrg](https://youtu.be/q_D51fGxcrg)

## **TriNet® Straw/Coconut Turf Reinforcement Mat (TRM)**

TriNet® Straw/Coconut is a three-netted bio-composite turf reinforcement mat (TRM). It is designed for long-term protection against wind and water erosion and is a natural choice in place of stone or riprap in swales, ditch bottoms, and on long, steep slopes. It is designed to provide permanent service life and reinforcement between established vegetation/root systems and where vegetation alone requires extra protection from shear stress forces. It can also withstand vegetated hydraulic shear stresses up to 10 lb/ft<sup>2</sup>.

<https://youtu.be/R1SIGFDxWQ0>

## **Creating a Vegetated Waterway with Recyclx® TRM – V (Fly Ash Landfill Capping Project)**

When an Illinois power plant was decommissioned, two fly ash landfills had to be capped. The runoff from these areas would be significant and there were many sensitive waterways in the immediate area that required protection. Recyclx TRM – V was chosen to create the vegetated waterway around the closed fly ash ponds. These vegetated waterways allow for better water infiltration and filtration than rip rap. The vegetated areas are important to wildlife and return the site to more natural conditions. Additionally, the installation of a turf reinforcement mat (TRM) is less expensive than rip rap.

<https://youtu.be/V4uUjRm-f18>

## **Recyclx® TRM-V Protects Channel During Multiple Large Storms**

Recyclx TRM – V protects a drainage channel hit by multiple storms in just a few days. Water flows send massive amounts of debris through the channel and Recyclx TRM – V holds up.

<https://www.youtube.com/watch?v=2OnxkGLes1M>

## **Curlex® Bloc Installation**

Curlex Bloc are manufactured in the U.S.A. with native Great Lakes Aspen fibers, an alternative to coir logs. The Curlex fiber matrix is naturally seed free and nontoxic. The standard 100% natural biodegradable containment material is designed to start degrading during the first year to allow voluntary seed and sediment into the Curlex fiber matrix. Applications include shoreline erosion, sediment, and perimeter control, and around inlets or outlets. This video demonstrates installation for a shoreline application.

<https://www.youtube.com/watch?v=D8b3B3XbE7o>

## **Fly Ash Slurry Filtration Using Curlex® Bloc**

Fly ash samples were collected from a coal plant in Ohio. Channel simulators were built to determine the reduction of total suspended solids (TSS) and turbidity of fly ash slurry exposed to Curlex Enforcer® and Curlex Bloc over a ninety-minute period. The results were remarkable.

<https://www.youtube.com/watch?v=Ohp3i723PN8>



## **Curlex® Enforcer® and Curlex® Bloc Filter Station Simulation**

All natural Curlex Blocs are very effective at removing fine sediments and other contaminants from runoff. Typically, flocculants have been used to remove these fine particles. A series of Curlex Bloc Filter Stations can be a valuable tool to help improve water quality without adding chemicals into the environment. See first-hand in this video how well the Curlex Bloc Filter Station works without the aid of chemicals. The channel was lined with Curlex Enforcer then the Curlex Bloc Filter Station was installed into the channel. A slurry of premixed sediment-laden water was added to the channel over the course of the four-hour long simulation. [https://www.youtube.com/watch?v=MTORoN2N\\_Rw&t=46s](https://www.youtube.com/watch?v=MTORoN2N_Rw&t=46s)

## **Curlex® Fibers Remove Oil from Water**

Curlex Wood Fibers Remove Oil from Water in Seconds!  
<https://www.youtube.com/watch?v=NNnc6billQk>

## **Oil Capture Solution with Curlex®**

Oil spill beach protection solution with Curlex products is shown in a wave simulator.  
<http://www.youtube.com/watch?v=HON1B3I-F2c>

## **Curlex® III Pipeline Protection**

Curlex III Aspen Excelsior used to protect pipeline installation erosion control needs. In addition to high-performing Curlex blankets, American Excelsior Company manufacturers turf reinforcement mats (TRMs), Curlex Hi-Vis logs, Curlex Bloc for natural dewatering, and several other products that provide successful solutions for erosion control, sediment control, and revegetation challenges that are experienced on pipelines. <https://www.youtube.com/watch?v=6Wx-C2LkHYU>

## **Gulf Oil Spill Cleanup Efforts by American Excelsior Company®**

American Excelsior Company has tested Curlex in the lab and recently installed and monitored Curlex in Gulf coast beaches exposed to landfall oil. Curlex is a more efficient and effective solution to the oil spill cleanup efforts, but workers will not utilize the solution until authorized by BP. Please help spread the word so we can start protecting our precious Gulf beaches!  
<http://www.youtube.com/watch?v=ZNYpJ9itupg>

## **Curlex® Green Savers™ Winter Protection Covers for Golf Course Greens**

American Excelsior Company's Curlex Green Savers are natural excelsior covers that provide winter protection against drying winds, frost penetration, grass desiccation, and freezing cold on all golf course greens. Curlex Green Savers maintain a more constant surface temperature and allow excellent air circulation. Curlex Green Savers minimize heat buildup and the freeze thaw cycle, which helps to establish quality greens early in the season, thus extending the playing season by two to three weeks. This video shows the installation and removal processes along with the excellent results.  
<http://youtu.be/prAQ9NaZzGs>

## **E-Staple® Tech Tip**

American Excelsior Company's E-Staple is a biodegradable turf staple used to fasten erosion control blankets to the soil. E-Staple holds in soil better than traditional turf staples as well as other biodegradable turf staples. <http://www.youtube.com/watch?v=OZLqucec94M>



## **Protecting Sensitive Water Resources with Curlex® II**

Curlex II installed on a disturbed site protects sensitive water resource that are holistically connected. Video contains partial coverage recorded by a drone. <https://www.youtube.com/watch?v=Y1Hiz0OmKXU>

## **Curlex® Vegetation Establishment Time Lapse 28 Days Total**

Curlex excelsior erosion control blankets are considered the industry standard by many because of the plethora of Curlex Features and Benefits. This video of time lapse photography shows vegetation establishment with Curlex. Multiple photos were taken each day with the first one shown approximately 6 days after installation. The last photo shown was taken 28 days after installation. The application took place in northern Wisconsin. <http://www.youtube.com/watch?v=iJqOpcf0IMs>

## **Native Slope Restoration with Curlex® SFW Wattles**

Curlex SFW Wattles are installed for slope interruption to prevent mulch from washing into the lake. Video contains aerial coverage recorded by a drone. <https://www.youtube.com/watch?v=Rp19ZWVrj6Ao>

## **Comparison of Erosion Control Blanket Fibers**

Curlex Erosion Control Fibers are compared to other erosion control fibers. Curlex fibers are engineered specifically for erosion control. Curlex has curled and barbed edges that allow the other Curlex fibers to "grab" onto each other and the soil. Curlex fibers create an ideal environment for establishing vegetation. [http://www.youtube.com/watch?v=eCGI0\\_mtxoY](http://www.youtube.com/watch?v=eCGI0_mtxoY)

## **Ecologically Friendly Fibers**

100% natural and 100% biodegradable Curlex fibers are used for erosion control. <http://www.youtube.com/watch?v=BIDYee8hmkc>

