

Product Evaluation

RE: Review of AEC Curlex I FibreNet

PRODUCT

AEC Curlex I FibreNet Erosion Control Blanket is manufactured and distributed in Alberta by American Excelsior Company located in Rice Lake, Wisconsin, USA.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

Curlex I FibreNet has a design soil loss ratio of 0.018 and is typically suitable for slopes up to 2H:1V. Curlex I FibreNet is rated for channel flows up to 2.1 m/s and 84 Pa shear stress. Website: www.americanexcelsior.com.

DESCRIPTION:

Curlex I FibreNet erosion control blanket (ECB) consists of a specific cut of naturally seed free Great Lakes Aspen curled wood excelsior with 80% six-inch fibers or greater fiber length. It is of consistent thickness with fibers evenly distributed throughout the entire area of the blanket. The top of each blanket is covered with 100% biodegradable jute netting. The product is 100% biodegradable when biodegradable thread is ordered. It is also available as QuickGRASS (green pigment).

POTENTIAL USAGE:

Typical applications are for highway ditches, and embankments for slopes up to 2H: 1V.

STANDARDS:

ASTM D 7322: Standard Test Method for Determination of Temporary Degradable RECP Performance in Encouraging Seed Germination and Plant Growth
ASTM D6459: Standard Test Method for Determination of Rolled Erosion Control Product Performance in Protecting Hillslopes from Rainfall-Induced Erosion

ASTM D6460: Standard Test Method for Determination of Rolled Erosion Control Product Performance in Protecting Earthen Channels from Stormwater-Induced Erosion

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation has tried a large variety of rolled erosion control products in the past and might have some experience with this product but there is no documentation of its actual use.

APPLICATION STANDARDS:

Alberta Transportation standard for Rolled Erosion Control Products is documented in Alberta Transportation Products List, and Erosion, and Sediment Control Manual BMP #13.

RECOMMENDATIONS:

AEC Curlex I FibreNet be listed as a Potential Product under Alberta Transportation Product List, Erosion Control Systems, Rolled Erosion Control Blankets – Temporary RECPs – Type B, based on the information provided. Final acceptance as a proven product will be based on field performance.

TRIAL PROJECTS

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