

## Product Evaluation

### RE: Review of TriNet Curlex Turf Reinforced Mat

#### PRODUCT

TriNet Curlex is a Composite Turf Reinforced Mat (C-TRM) manufactured and distributed in Alberta by American Excelsior Company located in Rice Lake, Wisconsin, USA. Website: <http://americanexcelsior.com/>

#### **VENDOR CLAIMS AND INFORMATION**

##### CLAIMS

TriNet Curlex has a design soil loss ratio (event-based RUSLE C factor) of 0.031 and is typically suitable for slopes up to .5H:1V. TriNet Curlex is rated for channel flows up to 20.0 ft/s (6.1 m/s) and 13 lb/ft<sup>2</sup> (622 Pa) shear stress. TriNet Curlex shall be manufactured in the U.S.A.

##### DESCRIPTION

TriNet Curlex, a three dimensional biocomposite TRM that consists matrix material 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, middle, and bottom nets of each TRM are stitched together forming a permanent three dimensional TRM. Nets are made of UV stabilized Polypropylene.

##### POTENTIAL USAGE

Erosion control at slopes up to 0.5H:1V and channels with flow up to 6.1 m/s and 622 Pa shear stress.

##### STANDARDS

Thickness	ASTM D 6525,	Light Penetration	ASTM D 6567
Resiliency	ASTM D 1777,	Mass per Unit Area	ASTM D 6475
Tensile Strengths	ASTM D 6818,	Elongation	ASTM D 6818
UV Stability	ASTM D 4355,	Stiffness	ASTM D6575
Bench-Scale Rain Splash	ASTM D 7101,	Bench-Scale Shear	ASTM D 7207
Germination Improvement	ASTM D 7322		

#### **ALBERTA TRANSPORTATION COMMENTS**

##### EXPERIENCE

Alberta Transportation has experience with similar products from various manufacturers.

##### APPLICABLE STANDARDS

Alberta Transportation standard for Rolled Erosion Control Products (RECP) is documented in AT Products List and Erosion and Sediment Control Manual BMP#13.

##### RECOMMENDATIONS

TriNet Curlex Turf Reinforced Mat be listed as a Potential Product under Alberta Transportation Products List, Erosion and Sediment Control Systems – Permanent RECPS – Turf Reinforcement Mats (TRM) – Type C – Proprietary. Final acceptance as a proven product will be based on field performance.

#### **TRIAL PROJECTS**

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