

Product Evaluation

RE: Review of Recyclax TRM - V

PRODUCT

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

VENDOR CLAIMS AND INFORMATION

CLAIMS

Recyclax TRM – V, permanent TRM consists of 100% post-consumer recycled polyester (green bottles) with 80% five-inch fibers or greater fiber length. Recyclax TRM – V has a design soil loss ratio of .022 and is typically suitable for slopes up to 0.5H:1V. Vegetated Recyclax TRM – V is rated for channel flows up to 4.9+ m/s, 384+ Pa shear stress, and has maximum TD Tensile Strength of 2.84 kN/m.

DESCRIPTION

Recyclax TRM – V is of consistent thickness with fibers evenly distributed throughout the entire area of the TRM. The top and bottom of each TRM is covered with heavy-duty polypropylene net. Fibers are tightly crimped and curled to allow fiber interlock and to retain 95% memory of the original shape after loading by hydraulic events. Fibers have a specific gravity greater than 1.0; therefore, the blanket will not float during hydraulic events.

POTENTIAL USAGE

Erosion control at slopes up to 0.5H:1V and channels with flow up to 4.9 m/s and 384 Pa shear stress.

STANDARDS

Thickness	ASTM D 6525,	Light Penetration	ASTM D 6567
Resiliency	ASTM D 6524,	Mass per Unit Area	ASTM D 6566
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

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

TRIAL PROJECTS

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