

RE: Review of Greenfix America Turf Reinforcement Mat – CFG2000

PRODUCT

Greenfix America Turf Reinforcement Mat – CFG2000. This product is manufactured by Greenfix America and distributed in Alberta by Applied Geo-Environmental Solutions of Calgary.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

A Turf Reinforcement Mat (TRM) used for bank reinforcement or steep slope stabilization with a functional longevity of 36+ months.

DESCRIPTION:

This is a 100% coir fibre mat with a permanent top net biaxial geogrid and a heavy photodegradable top net and a heavy photodegradable bottom netting.

POTENTIAL USAGE:

Used for erosion control on highway slopes and ditches.

STANDARDS:

Greenfix America has the following standards for the Turf Reinforcement Mat – CFG2000.

Thickness (mm) - ASTM D6525

Light Penetration (%) - ECTC guidelines

Resiliency (%) - ASTM D1777

Mass per unit area (g/m²) - ASTM D5261

Tensile Strength (kN/m) - ASTM D5035

Elongation (%) - ASTM D5035

Porosity (%) – ECTC

UV Stability (% retained) – ASTM D4355

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

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

APPLICATION STANDARDS:

Alberta Transportation has a performance specification for this product.

RECOMMENDATIONS:

Greenfix America Turf Reinforcement Mat – CFG2000 for erosion control be listed as a Proven Product under Alberta Transportation Product List, Erosion Control Systems, Rolled Erosion Control Blanket – Turf Reinforcement Mats – Proprietary.

TRIAL PROJECTS

Banff Coach Road/Bow Trail, Calgary; Stoney Trail Extension, Calgary

Fred Cheng

cc New Product Evaluation Standing Committee – Roger Skirrow