

Product Evaluation

RE: Review of Flexamat

PRODUCT

Flexamat is manufactured by Motz Enterprises, INC. located in Cincinnati. It is supplied in Alberta by Brock White, Calgary.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

Flexamat offers permanent, hard armour protection, with a natural vegetated appearance. Flexamat may be mowed over with commercial mowing equipment. Besides grass, there are many other types of native plant species such as Willow Saplings were planted through Flexamat for a streambank re-vegetation project. Product web link: <http://www.flexamat.com/>

DESCRIPTION:

Flexamat consists of concrete shapes, locked together with a high strength, polypropylene geogrid. There are openings around each concrete block that give Flexamat the flexibility and enable it to be packaged in rolls. The openings also allow vegetation to grow through the mat. It can be manufactured with various backings such as non-woven fabric to stop vegetation growth or a TRM depending on the soil condition and other factors.

POTENTIAL USAGE:

Channel erosion, outlet protection, on slopes, for shoreline protection and many other applications.

STANDARDS:

ASTM D6460 Large-Scale Channel Erosion Testing

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation has used this product in multiple projects.

APPLICATION STANDARDS:

Alberta Transportation does not have a standard for Interlocked Matrix of Concrete Blocks for erosion control.

RECOMMENDATIONS:

Flexamat be listed as a Proven Product under Alberta Transportation Products List, -Erosion and Sediment Control Systems – Miscellaneous Erosion and Sediment Control – Proprietary, based on the information provided.

TRIAL PROJECTS

CON15534 – at Hwy 636 & RR 52A

CON18901 – at Hwy 55:10 & Hwy 813:02 intersection

Rishi Adhikari

cc Innovation Evaluation Group – Roger Skirrow