

Product Evaluation

RE: Review of Excel PP5-12

PRODUCT

Excel PP5-12 is a permanent rolled erosion control product manufactured by Western Excelsior at Evansville Indiana and it is distributed in Alberta by Green Patch Environmental Consulting Ltd, Calgary. Product web link: www.westernexcelsior.com

VENDOR CLAIMS AND INFORMATION

CLAIMS:

Excel PP5-12 is a permanent, 3-dimensional Turf Reinforcement Mat (TRM) that provides immediate erosion protection and long term turf reinforcement and is intended for slope or channel applications requiring erosion protection for greater than 36 months.

DESCRIPTION:

Excel PP5-12 TRM has 100% synthetic components made of polypropylene. A matrix of green synthetic fibres is mechanically/stitch bound between 2 UV stabilized heavy duty synthetic nets. Stitching is secured using UV stabilized heavy duty polypropylene thread.

POTENTIAL USAGE:

Slopes 1H: 1V or flatter and ditches / channels with water velocity not exceeding 2.7m/s

STANDARDS:

ASTM D6818 Tensile Strength and elongation, ASTM D6566 Mass / Area, ASTM D6525 Thickness
ASTM D6567 Light Penetration, ASTM D1117 Water Absorption, ASTM D7322 Vegetation Establishment, ASTM D7207 Shear Resistance Test, ASTM D4355 UV Stability, ASTM D7101 Rainfall and Rain Splash test, ASTM D7322 Vegetation Establishment Test

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation has no experience with this product.

APPLICATION 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:

Excel PP5-12 be listed as Potential Products under Alberta Transportation Products List, Erosion and Sediment Control Systems – Permanent RECPS – Turf Reinforcement Mats (TRM) – Type C – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

TRIAL PROJECTS

Rishi Adhikari

cc Innovation Evaluation Group – Abid Malik
Roger Skirrow, Corinna Mulyk