

Product Evaluation

RE: Review of Excel S-2 (Regular, Rapid Go and All Natural)

PRODUCT

Excel S-2 Regular, Rapid Go and All Natural are rolled erosion control products 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:

Western Excelsior's Excel S-2 temporary erosion control blankets provide a biodegradable and/or photodegradable cover material to reduce slope and/or channel erosion and promote accelerated vegetation establishment. They serve as a mulching layer.

DESCRIPTION:

Excel S-2 consist of a 100% Rocky Mountain Excelsior matrix stitched to a double net. Excel S-2 are available with photodegradable, synthetic netting (Regular); rapid photodegradable, synthetic netting (Rapid-Go) or all natural, biodegradable netting (All-Natural). Excel S-2 ECBs are also available in natural or dyed green colors. The Excel S-2 Rapid Go provides erosion control for a period of 3 months. Excel S-2 Regular and All Natural have functional longevity up to 15 months.

POTENTIAL USAGE:

Slopes 1.5H: 1V or flatter and ditches / channels with water velocity not exceeding 2m/s

STANDARDS:

ASTM D6818 Tensile Strength and elongation, ASTM D6475 Mass / Area, ASTM D6525 Thickness
ASTM D6567 Light Penetration, ASTM D 1117 Water Absorption, ASTM D7322 Vegetation Establishment, ASTM D7207 Shear Resistance Test

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation has no experience with ECB with Aspen fiber.

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 S-2 (Regular, Rapid Go and All Natural) be listed as Potential Products under Alberta Transportation Products List, Erosion and Sediment Control Systems – Rolled Erosion Control Products – Type B – 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