Product Evaluation

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RE: Review of HydroStraw Bonded Fiber Matrix

PRODUCT

HydroStraw Bonded Fiber Matrix is a Hydraulic Mulch manufactured and distributed by HydroStraw LLC, Rockford, Washington.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

HydroStraw Bonded Fiber Matrix is designed to be more cost effective than blankets and cost less to apply per acre than conventional BFM mulches on difficult sites, slopes, and adverse soil conditions where extra erosion prevention is needed. The combination of fiber entanglement in conjunction with cross linked high-strength polymer binders produce great erosion prevention and vegetation establishment. Product web link: www.hydrostraw.com

DESCRIPTION:

HydroStraw Bonded Fiber Matrix is composed of heat and mechanically treated straw, natural fiber and tackifiers. Mulch fibre is applied as a slurry solution by means of hydro-seeder.

POTENTIAL USAGE:

Erosion control of slopes (highways), golf courses, residential and commercial landscaping.

STANDARDS:

HydroStraw Bonded Fiber Matrix Application Rates
Slope ≤ 3:1, Application rate 3363 kg/Ha (3000 lbs/ac)
Slope ≤ 2:1, Application rate 3923 kg/Ha (3500 lbs/ac)
Slope ≤ 1:1, Application rate 5044 kg/Ha (4500 lbs/ac)

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation has experience with similar types product.

APPLICATION STANDARDS:

Alberta Transportation has standard specifications for seeding and fertilizing - Erosion and Sediment Control Manual 2011 BMPs 22 Seeding, 24a Hydro-seeding and 24b Hydro-mulching

RECOMMENDATIONS:

HydroStraw Bonded Fiber Matrix to be listed as a Potential Product under Alberta Transportation Products List, Erosion Control – Hydraulic Erosion Control Product – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

TRIAL PROJECTS

Rishi Adhikari
cc   New Product Evaluation Standing Committee – Roger Skirrow