

Product Evaluation

RE: Review of Stenlog (commonly known as Straw Wattle)

PRODUCT

Stenlogs are manufactured by ErosionControlBlanket.com of Winnipeg and distributed in Alberta by Cascade Geotechnical Inc. of Edmonton.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

The Stenlog provides a cost effective alternative to other sediment trapping devices. It can be easily installed and removed. It is biodegradable. Its functional longevity is approximately 6-18 months depending on moisture, light and winter conditions.

DESCRIPTION:

The Stenlog (Straw Wattle) is an elongated tube of compacted straw and/or other fibers wrapped in UV stabilized degradable tubular polypropylene plastic netting. The Stenlog is used for temporary erosion and sediment control applications and are commonly installed along the contours or at the base of a slope to help reduce soil erosion and retain sediment. The Stenlog is designed to allow runoff/water to penetrate through the fiber while reducing sediment migration. Stenlogs function as slope interruption devices and therefore shorten slope lengths reducing runoff velocity and the potential for sheet erosion and rill formation. Stenlogs work in conjunction with surface roughening, straw mulching, bonded fiber matrix, hydroseeding and erosion control blankets to further reduce erosion and sediment migration.

POTENTIAL USAGE:

Stenlogs are installed along the contours or at the base of a slope to help reduce soil erosion and retain sediment.

STANDARDS:

| Property | Test Method | Stenlog 12" (30.5 cm) | Stenlog 9" (22.9 cm) |
|-----------------------------|---------------|-----------------------|----------------------|
| Mass | Field Measure | 1.74 kg/m | 0.4 kg/m |
| Dimension | Field Measure | 25.4 – 30 cm | 20 - 23 cm |
| Net Strand Thickness | Field Measure | 0.04 cm | 0.041 cm |
| Netting Weight | Certified | 37.7 g/m | 25 g/m |
| Installed Free-board Height | Field Measure | 20.3 – 22.9 cm | 14 – 16.5 cm |
| Mesh Opening | Certified | 1.27 cm | 1.27 cm |
| Stretch Width | Certified | 53.3 cm | 31.75 cm |

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation has no experience with the Stenlog product.

APPLICATION STANDARDS:

Alberta Transportation have a Best Management Practice for Fibre Rolls (BMP #28a) in the Design Guidelines for Erosion and Sediment Control for Highways, March 2003 for this product.

RECOMMENDATIONS:

The Stenlog be listed as a Proven Product under Alberta Transportation Product List, Erosion Control Systems – Ditch Blocks/Barriers – Proprietary, based on the information provided.

Product ID: 8130-2-4
Initiation Date: July 25, 2003
Revision Dates: November 23, 2009
July 13, 2023

TRIAL PROJECTS

Old Ferry Road, south of Jct. H32/H43 Whitecourt
H750 Gift Lake (AT6410/07)

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cc New Product Evaluation Group – Roger Skirrow