

RE: Review of Erosion Control Blankets – Landlok CS2

PRODUCT

Erosion Control Blankets by SI Geosolutions of Tennessee – Landlok CS2. This product is distributed by Layfield Geosynthetics and Industrial Fabrics Ltd. of Edmonton.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

The erosion control blankets are used to protect open soils from erosion and promote the establishment of natural vegetation on exposed soils after construction. CS2 blankets provide protection for more challenging sites where medium water runoff exists or longer term temporary erosion prevention is needed.

DESCRIPTION:

The erosion control blankets consist of 70% wheat straw and 30% of mattress grade coconut fibre mechanically bound and covered on both sides by netting. The straw and coconut fibre is homogeneously blended and evenly distributed throughout the blanket. The bottom netting is photodegradable polypropylene with mesh openings of approximately 11 mm x 11 mm. The top netting is photodegradable polypropylene with mesh openings of approximately 16 mm x 16 mm. The blanket is sewn on approximately 51 mm centres with photodegradable polypropylene thread.

POTENTIAL USAGE:

Can be used in ditches and storm channels.

STANDARDS:

Layfield provides staple patterns and roll width, length and weight for this product.

ASTM D1777 Thickness

ASTM D5261 Mass per unit area

ASTM D5035 Tensile strength, Elongation

ALBERTA INFRASTRUCTURE and TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Infrastructure and Transportation have tried a large variety of erosion control mats in the past and might have some experience with this product but there is no documentation of its actual use and performance.

APPLICATION STANDARDS:

Alberta Infrastructure and Transportation have a performance specification for this product.

RECOMMENDATIONS:

Landlok CS2 for erosion control be listed as a Proven! Product under Alberta Infrastructure and Transportation Product List, Erosion Control Systems, Rolled Erosion Control Blanket – Erosion Control Mats or Blankets – Proprietary, based on the information provided.

TRIAL PROJECTS

Fred Cheng

cc New Product Evaluation Standing Committee – Roger Skirrow