

Product Evaluation

RE: Review of North American Green SC150BN

PRODUCT

NAG SC150BN is distributed by Nilex Inc. located in Edmonton.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

The erosion control blankets and mats are used to prevent erosion of soil on side slopes, channels and ditches.

DESCRIPTION:

The erosion control blanket SC150BN is a machine-produced mat comprised of 75% agricultural straw / 50% coconut fiber. The blanket shall be consistent thickness with the straw and coconut fibers evenly distributed over the entire area of the mat. The straw/coconut fiber matrix is stitched with biodegradable thread between a leno woven jute top netting and woven jute bottom netting. The combined strength of the coconut fiber and double netting structure offers durability, longevity and effectiveness available in erosion control. SC150BN is ideal for use in applications where vegetation will require up to 18 months for establishment, in medium flow channels, streambanks and severe slopes. Website: www.nagreen.com.

POTENTIAL USAGE:

The blankets or mats may replace heavy armour such as rock riprap.

STANDARDS:

North American Green has slope and channel design data and physical specifications for the SC150BN.

ASTM D5199/ECTC Thickness

ECTC Guidelines Resiliency, Swell, Light penetration, Smolder resistance

ASTM D5261 Mass per unit area

ASTM D1117/ECTC Water absorption

ASTM D1388/ECTC Stiffness/Flexibility

ASTM D5035 Tensile strength, Elongation

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation have tried a large variety of erosion control mats in the past.

APPLICATION STANDARDS:

Alberta Transportation have a performance specification for this product.

RECOMMENDATIONS:

NAG SC150BN for erosion control be listed as a Proven Product under Alberta Transportation Product List, Erosion Control Systems, Rolled Erosion Control Blanket Type C - Proprietary based on the information provided.

TRIAL PROJECTS

RWI site N. of Kearl Lake; Ervin Creek

Fred Cheng

cc New Product Evaluation Standing Committee – Roger Skirrow