

Product Evaluation

RE: Review of North American Green C125BN

PRODUCT

NAG C125BN 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 C125BN is a machine-produced mat of 100% coconut fiber. The blanket shall be consistent thickness with the coconut fibers evenly distributed over the entire area of the mat. The straw 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 the highest level of durability, longevity and effectiveness available in a biodegradable erosion control blanket. C125BN is ideal for use in applications where vegetation will require 18 to 24 months for establishment, on slopes with a 1:1 or steeper gradient, and in high-flow channels, streambanks or shorelines. 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 C125BN.

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 C125BN 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

Shell Jackpine Mine; CNRL at Wolf Lake; Pembina Pipeline in Ft. McMurray

City of Calgary Airport Trail Tunnel

Fred Cheng

cc New Product Evaluation Standing Committee – Roger Skirrow