

Product Evaluation

Product ID: 8133-1-7 Initiation Date: September 5, 2002 Revision Date: November 20, 2007

RE: Review of Erosion Control Blankets and Mats – North American Green C125

PRODUCT

Erosion control blankets and mats – North American Green C125. This product is distributed by Nilex Inc. of 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:

C125, a semi-permanent erosion control blanket and mat shall be machine-produced mat of 100%<u>coconut fibre</u> with a functional longevity of approximately <u>36 months</u>. The blanket shall be of consistent thickness with the coconut fibres evenly distributed over the entire area of the mat. The blanket shall be covered on the <u>top and bottom sides</u> with a heavyweight photo-degradable polypropylene netting having an approximately 1.59 x 1.59 cm mesh and be sewn together on 3.81 cm centres (50 stitches/roll width) with UV stable polypropylene thread. The blanket shall be manufactured with a coloured line or thread stitched along both outer edges (5 to 12.5 cm) to ensure proper material overlapping.

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 C125. 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 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:

North American Green C125 for erosion control be listed as a Proven Product under Alberta Infrastructure and Transportation Product List, Erosion Control Systems – Rolled Erosion Control Blanket – Proprietary, based on the information provided.

TRIAL PROJECTS

H881, Conklin

Fred Cheng