

**RE: Review of Erosion Control Blankets and Mats – North American Green S150**

**PRODUCT**

Erosion control blankets and mats – North American Green S150. 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:**

The erosion control blankets and mats shall be machine-produced mat of 100% agricultural straw with a functional longevity of approximately 12 months. The blanket shall be consistent thickness with the straw evenly distributed over the entire area of the mat. The blanket shall be covered on the top and bottom sides with a lightweight photo-degradable polypropylene netting having an approximately 1.27 x 1.27 cm mesh and be sewn together on 3.81 cm centres (50 stitches/roll width) with degradable thread. The blanket shall be manufactured with a colored 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 S150.  
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 S150 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

cc New Product Evaluation Standing Committee – Roger Skirrow