

## Product Evaluation

### RE: Review of North American Green S150BN

#### **PRODUCT**

NAG S150BN 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 S150BN is a machine-produced mat of 100% agricultural straw. The blanket shall be consistent thickness with the straw 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 double net structure blanket makes it more durable and effective at controlling erosion and assisting with vegetation establishment in more demanding applications such as moderate flow channels, streambanks and steep slopes, for up to 12 months. Website: [www.nagreen.com](http://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 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 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 S150BN for erosion control be listed as a Proven Product under Alberta Transportation Product List, Erosion Control Systems, Rolled Erosion Control Blanket Type B - Proprietary based on the information provided.

**TRIAL PROJECTS**

Rockyview County roads

Fred Cheng

cc New Product Evaluation Standing Committee – Roger Skirrow