



## SUPPLEMENTAL SPECIFICATION

# SC150BN



The North American Green SC150BN extended-term erosion control blanket is constructed of 100% biodegradable materials with a 70% agricultural straw and 30% coconut fiber blend matrix and has a functional longevity of up to 18 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographic location, and elevation). The straw and coconut fibers shall be evenly distributed over the entire area of the blanket. The blanket shall be covered on the top and bottom with 100% biodegradable natural organic fiber netting woven into an approximate 0.50 inch x 1 inch (1.27 x 2.54 cm) mesh. The blanket shall be sewn together with biodegradable thread on 1.50 inch (3.81 cm) centers. The following list contains further physical properties of the SC150BN erosion control blanket.

<u>Property</u>	<u>Test Method</u>	<u>Typical</u>
Thickness	ASTM D5199/ECTC	0.29 in (7.47 mm)
Resiliency	ECTC Guidelines	86%
Mass per Unit Area	ASTM D6475	9.66 oz/yd <sup>2</sup> (328 g/m <sup>2</sup> )
Water Absorption	ASTM D1117/ECTC	158%
Swell	ECTC Guidelines	46.00%
Stiffness/Flexibility	ASTM D1388/ECTC	0.42 oz-in (4,737 mg-cm)
Light Penetration	ECTC Guidelines	11.70%
Smolder Resistance	ECTC Guidelines	Yes**
MD Tensile Strength	ASTM D5035	280.80 lbs/ft (4.10 kN/m)
MD Elongation	ASTM D5035	9.50%
TD Tensile Strength	ASTM D5035	205.20 lbs/ft (2.99 kN/m)
TD Elongation	ASTM D5035	13.20 %

\*\*Material is smolder resistant according to specified test

MD – Machine direction

TD – Transverse direction

### Bench Scale Testing<sup>†</sup>

Test Method - Description	Parameters	Results
ECTC Method 2 – Determination of unvegetated RECP's ability to protect soil from rain splash and associated runoff	50 mm (2 in)/hr for 30 min	Soil loss ratio* = 9.98
	100 mm (4 in)/hr for 30 min	Soil loss ratio* = 13.01
	150 mm (6 in)/hr for 30 min	Soil loss ratio* = 16.95
ECTC Method 3 – Determination of unvegetated RECP's ability to protect soil from hydraulically-induced shear stress.	Shear: 2.06 lbs/ft <sup>2</sup> for 30 min	Soil loss: 196g
	Shear: 2.39 lbs/ft <sup>2</sup> for 30 min	Soil loss: 895g
	Shear: 2.73 lbs/ft <sup>2</sup> for 30 min	Soil loss: 1743g
<b>Failure criteria = 0.50 inch soil loss</b>	<b>Shear at 0.50 inch soil loss (450g)</b>	<b>2.27 lbs/ft<sup>2</sup></b>
ECTC Draft Method 4 – Determination of temporary RECP performance in encouraging seed germination and plant growth	Top soil; Fescue (Kentucky 31); 21 day incubation 27° C ± 2° & approximately 50% RH	Percent improvement = 723% (increased biomass)
* Soil Loss Ratio = Soil Loss with Bare Soil / Soil Loss with RECP (NOTE: Soil loss based on regression analysis)		

### <sup>†</sup>Bench Scale Testing

Bench scale tests are index property tests. These tests are not indicative of field performance and therefore should not be used in design to establish performance levels for rolled erosion control products. Bench scale tests are performed according to methods developed by the Erosion Control Technology Council (ECTC).