



PERFORMANCE SPECIFICATION

S75BN



The North American Green S75BN erosion control blanket is constructed of 100% biodegradable materials containing a 100% agricultural straw fiber matrix and having a functional longevity of approximately 12 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographic location, and elevation). The straw fiber shall be evenly distributed over the entire area of the mat. The blanket shall be covered on the top with 100% biodegradable natural organic fiber netting woven into an approximate 0.50 inch x 1 inch (1.27 cm 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 S75BN erosion control blanket.

<u>Property</u>	<u>Test Method</u>	<u>Typical</u>
Thickness	ASTM D5199/ECTC	0.32 in (8.13 mm)
Resiliency	ECTC Guidelines	81.40%
Mass per Unit Area	ASTM D6475	7.55 oz/ yd ² (256 g/m ²)
Water Absorption	ASTM D1117/ECTC	281%
Swell	ECTC Guidelines	15.70%
Stiffness/Flexibility	ASTM D1388/ECTC	6.92 oz-in (77,268 mg-cm)
Light Penetration	ECTC Guidelines	13.60%
Smolder Resistance	ECTC Guidelines	Yes**
MD Tensile Strength	ASTM D5035	267.60 lbs/ft (3.90 kN/m)
MD Elongation	ASTM D5035	3.00%
TD Tensile Strength	ASTM D5035	267.60 lbs/ft (3.90 kN/m)
TD Elongation	ASTM D5035	2.70%

**Material is smolder resistant according to specified test.

MD - Machine direction

TD - Transverse direction

Slope Design Data

Channel Design Data

Bench Scale Testing†

Cover Factors (C)		Channel Roughness Coefficients	
	Slope Gradient (S)	Flow Depth	Manning's 'n'
Slope Length (L)	≤ 3:1	≤ 0.50 ft (0.15 m)	0.055
≤ 20 ft (6 m)	0.029	0.50-2.00 ft	0.055-0.021
20 - 50	0.110	≥ 2.00 ft (0.60 m)	0.021
≥ 50 ft (15.2 m)	0.190	Max. Permissible Shear Stress 1.60 lbs/ft ² (76.0 Pa)	

Unvegetated Channel	2.0 lbs/ft ²
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Approximate Max Flow Velocity	5.00 ft/s (1.52 m/s)
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For most accurate design data consult ECMDSTM
Manning's 'n' expressed in English units

†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).