



**ROLLMAX™**  
ROLLED EROSION CONTROL

## Specification Sheet

### BioNet® S75BN™ Erosion Control Blanket

#### DESCRIPTION

The short-term single net erosion control blanket shall be a machine-produced mat of 100% agricultural straw with a functional longevity of up to 12 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographical location, and elevation). The blanket shall be of consistent thickness with the straw evenly distributed over the entire area of the mat. The blanket shall be covered on the top side with a 100% biodegradable woven natural organic fiber net. The netting shall consist of machine directional strands formed from two intertwined yarns with across directional strands interwoven through the twisted machine strands (commonly referred to as a Leno weave) to form approximate 0.50 x 1.0 in. (1.27 x 2.54 cm) mesh. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches [5-12.5 cm] from the edge) as an overlap guide for adjacent mats.

The S75BN shall meet Type 2.C specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17

#### Material Content

<b>Matrix</b>	100% straw fiber	0.5 lbs/sq yd (0.27 kg/sm)
<b>Netting</b>	Top side only: Leno woven 100% biodegradable natural organic fiber	9.3 lbs/1000 sq ft (4.5 kg/100 sm)
<b>Thread</b>	Biodegradable	

#### Standard Roll Size

<b>Width</b>	6.67 ft (2.0 m)	8.0 ft (2.4 m)
<b>Length</b>	108 ft (32.92 m)	112 ft (34.14 m)
<b>Weight ± 10%</b>	46.4 lbs (21.05 kg)	50 lbs (22.68 kg)
<b>Area</b>	80 sq yd (66.9 sm)	100 sq yd (83.61 sm)

#### Design Permissible Shear Stress

<b>Unvegetated Shear Stress</b>	1.60 psf (76 Pa)
<b>Unvegetated Velocity</b>	5.00 fps (1.52 m/s)



Index Property	Test Method	Typical
<b>Thickness</b>	ASTM D6525	0.29 in. (7.37 mm)
<b>Resiliency</b>	ECTC Guidelines	81.4%
<b>Water Absorbency</b>	ASTM D1117	440%
<b>Mass/Unit Area</b>	ASTM D6475	9.12 oz/sy (310 g/sm)
<b>Swell</b>	ECTC Guidelines	15.7%
<b>Smolder Resistance</b>	ECTC Guidelines	Yes
<b>Stiffness</b>	ASTM D1388	6.92 oz-in
<b>Light Penetration</b>	ASTM D6567	9.1%
<b>Tensile Strength - MD</b>	ASTM D6818	146.4 lbs/ft (2.17 kN/m)
<b>Elongation - MD</b>	ASTM D6818	10.9%
<b>Tensile Strength - TD</b>	ASTM D6818	109.2 lbs/ft (1.62 kN/m)
<b>Elongation - TD</b>	ASTM D6818	14.3%
<b>Biomass Improvement</b>	ASTM D7322	398%

#### Slope Design Data: C Factors

Slope Length (L)	Slope Gradients (S)		
	≤ 3:1	3:1 – 2:1	≥ 2:1
≤ 20 ft (6 m)	0.029	N/A	N/A
20-50 ft	0.11	N/A	N/A
≥ 50 ft (15.2 m)	0.19	N/A	N/A

#### Roughness Coefficients – Unveg.

Flow Depth	Manning's n
≤ 0.50 ft (0.15 m)	0.055
0.50 – 2.0 ft	0.055-0.021
≥ 2.0 ft (0.60 m)	0.021



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