



## Specification Sheet – EroNet™ S75® 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 lightweight photodegradable polypropylene netting having an approximate 0.50 x 0.50 in. (1.27 x 1.27 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 S75 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, lightweight photodegradable	1.5 lb/1000 sq ft (0.73 kg/100 sm)
<b>Thread</b>	Degradable	

### Standard Roll Sizes

<b>Width</b>	6.67 ft (2.03 m)	8.0 ft (2.4 m)	16 ft (4.87 m)
<b>Length</b>	108 ft (32.92 m)	112 ft (34.14 m)	108 ft (32.92 m)
<b>Weight ± 10%</b>	40 lbs (18.14 kg)	50 lbs (22.68 kg)	96 lbs (43.54 kg)
<b>Area</b>	80 sq yd (66.9 sm)	100 sq yd (83.61 sm)	192 sq yd (165.5 sm)

Index Property	Test Method	Typical
<b>Thickness</b>	ASTM D6525	0.50 in. (12.7 mm)
<b>Resiliency</b>	ECTC Guidelines	78.8%
<b>Water Absorbency</b>	ASTM D1117	301%
<b>Mass/Unit Area</b>	ASTM D6475	9.76 oz/sy (332 g/sm)
<b>Swell</b>	ECTC Guidelines	15%
<b>Smolder Resistance</b>	ECTC Guidelines	Yes
<b>Stiffness</b>	ASTM D1388	6.31 oz-in
<b>Light Penetration</b>	ASTM D6567	6.0%
<b>Tensile Strength - MD</b>	ASTM D6818	122.4 lbs/ft (1.81 kN/m)
<b>Elongation - MD</b>	ASTM D6818	36.1%
<b>Tensile Strength - TD</b>	ASTM D6818	79.2 lbs/ft (1.17 kN/m)
<b>Elongation - TD</b>	ASTM D6818	26.8%
<b>Biomass Improvement</b>	ASTM D7322	301%

### Design Permissible Shear Stress

<b>Unvegetated Shear Stress</b>	1.55 psf (74 Pa)
<b>Unvegetated Velocity</b>	5.00 fps (1.52 m/s)

### Slope Design Data: C Factors

#### Slope Gradients (S)

Slope Length (L)	≤ 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

**NTPEP Large-Scale Slope Testing**  
ASTM D6459 - C-factor = 0.012

### Roughness Coefficients – Unveg.

<b>Flow Depth</b>	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