



## Specification Sheet – EroNet™ DS75™ Erosion Control Blanket

### DESCRIPTION

The ultra short-term single net erosion control blanket shall be a machine-produced mat of 100% agricultural straw with a functional longevity of up to 45 days. (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 polypropylene netting having an approximate 0.50 x 0.50 (1.27 x 1.27 cm) mesh with photodegradable accelerators to provide breakdown of the netting within approximately 45 days, depending upon geographical location and elevation. 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 DS75 shall meet Type 1.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 with photo accelerators	1.5 lb/1000 sq ft (0.73 g/sm)
<b>Thread</b>	Degradable	

Standard Roll Sizes			
<b>Width</b>	6.67 (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	0.45 in. (11.43 mm)
<b>Resiliency</b>	ECTC Guidelines	78.8%
<b>Water Absorbency</b>	ASTM D1117	375%
<b>Mass/Unit Area</b>	ASTM 6475	8.57 oz/sy (291 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	10%
<b>Tensile Strength - MD</b>	ASTM D6818	105.6 lbs/ft (1.57 kN/m)
<b>Elongation - MD</b>	ASTM D6818	34%
<b>Tensile Strength - TD</b>	ASTM D6818	42.0 lbs/ft (0.62 kN/m)
<b>Elongation - TD</b>	ASTM D6818	25.2%
<b>Biomass Improvement</b>	ASTM D7322	286%

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)			
<b>Slope Length (L)</b>	≤ 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.	
<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



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