



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

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

Standard Roll Size

| | |
|---------------------|---------------------|
| Width | 6.67 ft (2.0 m) |
| Length | 108 ft (32.92 m) |
| Weight ± 10% | 46.4 lbs (21.05 kg) |
| Area | 80 sq yd (66.9 sm) |

Design Permissible Shear Stress

| | |
|---------------------------------|---------------------|
| Unvegetated Shear Stress | 1.60 psf (76 Pa) |
| Unvegetated Velocity | 5.00 fps (1.52 m/s) |

| Index Property | Test Method | Typical |
|------------------------------|-----------------|-----------------------------|
| Thickness | ASTM D6525 | 0.29 in. (7.37 mm) |
| Resiliency | ECTC Guidelines | 81.4% |
| Water Absorbency | ASTM D1117 | 440% |
| Mass/Unit Area | ASTM D6475 | 9.12 oz/sy (310 g/sm) |
| Swell | ECTC Guidelines | 15.7% |
| Smolder Resistance | ECTC Guidelines | Yes |
| Stiffness | ASTM D1388 | 6.92 oz-in |
| Light Penetration | ASTM D6567 | 9.1% |
| Tensile Strength - MD | ASTM D6818 | 146.4 lbs/ft (2.17 kN/m) |
| Elongation - MD | ASTM D6818 | 10.9% |
| Tensile Strength - TD | ASTM D6818 | 109.2 lbs/ft (1.62 kN/m) |
| Elongation - TD | ASTM D6818 | 14.3% |
| Biomass Improvement | 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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Tensar International Corporation warrants that at the time of delivery the product furnished hereunder shall conform to the specification stated herein. Any other warranty including merchantability and fitness for a particular purpose, are hereby executed. If the product does not meet specifications on this page and Tensar is notified prior to installation, Tensar will replace the product at no cost to the customer. **This product specification supersedes all prior specifications for the product described above and is not applicable to any products shipped prior to January 1, 2012.**

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