



ROLLMAX™
ROLLED EROSION CONTROL

Specification Sheet – EroNet™ S150® Erosion Control Blanket

DESCRIPTION

The short-term double 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 and bottom sides 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 S150 shall meet Type 2.D 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 and bottom nets: lightweight photodegradable | 1.5 lbs/1000 sq ft (0.73 kg/100 sm) |
| Thread | Degradable | |

Standard Roll Sizes

| | | | |
|---------------------|--------------------|----------------------|----------------------|
| Width | 6.67 ft (2.03 m) | 8 ft (2.4 m) | 16.0 ft (4.87 m) |
| Length | 108 ft (32.92 m) | 112 ft (34.14 m) | 108 ft (32.92 m) |
| Weight ± 10% | 40 lbs (18.14 kg) | 50 lbs (22.68 kg) | 96 lbs (43.54 kg) |
| Area | 80 sq yd (66.9 sm) | 100 sq yd (83.61 sm) | 192 sq yd (165.6 sm) |

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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| Index Property | Test Method | Typical |
|------------------------------|-----------------|-----------------------------|
| Thickness | ASTM D6525 | 0.32 in. (8.13 mm) |
| Resiliency | ECTC Guidelines | 80.5% |
| Water Absorbency | ASTM D1117 | 370% |
| Mass/Unit Area | ASTM D6475 | 8.15 oz/sy (277.1 g/sm) |
| Swell | ECTC Guidelines | 15% |
| Smolder Resistance | ECTC Guidelines | Yes |
| Stiffness | ASTM D1388 | 6.06 oz-in |
| Light Penetration | ASTM D6567 | 12.4% |
| Tensile Strength - MD | ASTM D6818 | 159.6 lbs/ft (2.37 kN/m) |
| Elongation - MD | ASTM D6818 | 31.7% |
| Tensile Strength - TD | ASTM D6818 | 93.6 lbs/ft (1.39 kN/m) |
| Elongation - TD | ASTM D6818 | 26.7% |
| Biomass Improvement | ASTM D7322 | 371% |

Design Permissible Shear Stress

| | |
|---------------------------------|--------------------|
| Unvegetated Shear Stress | 1.75 psf (84 Pa) |
| Unvegetated Velocity | 6.0 fps (1.83 m/s) |

NTPEP ASTM D6460 Large-Scale Channel

| | |
|---------------------------------|---------------------|
| Unvegetated Shear Stress | 2.42 psf (115.9 Pa) |
| Unvegetated Velocity | 9.0 fps (2.75 m/s) |

Slope Design Data: C Factors

| Slope Length (L) | Slope Gradients (S) | | |
|------------------|---------------------|-----------|-------|
| | ≤ 3:1 | 3:1 – 2:1 | ≥ 2:1 |
| ≤ 20 ft (6 m) | 0.004 | 0.106 | N/A |
| 20-50 ft | 0.062 | 0.118 | N/A |
| ≥ 50 ft (15.2 m) | 0.12 | 0.180 | N/A |

NTPEP Large-scale Slope
ASTM D6459 - C-factor = 0.029

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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