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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EC_RMX_MPDS_ESC150_6.13

### DESCRIPTION

The extended-term double net erosion control blanket shall be a machine-produced mat of 70% agricultural straw and 30% coconut fiber with a functional longevity of up to 24 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 and coconut evenly distributed over the entire area of the mat. The blanket shall be covered on the top side with a heavyweight photodegradable polypropylene netting having ultraviolet additives to delay breakdown and an approximate 0.63 x 0.63 in (1.59 x 1.59 cm) mesh, and on the bottom side with a lightweight photodegradable polypropylene netting with an approximate 0.50 x 0.50 (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 SC150 shall meet Type 3.B specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-D3 Section 713.17

### Material Content

#### Matrix

- 70% Straw Fiber: 0.35 lbs/sq yd (0.19 kg/sm)
- 30% Coconut Fiber: 0.15 lbs/sq yd (0.08 kg/sm)

#### Netting

- Top: Heavyweight photodegradable with UV additives: 3 lbs/1000 sq ft (1.47 kg/100 sm)
- Bottom: lightweight photodegradable: 1.5 lb/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%**
  - 44 lbs (19.95 kg)
  - 55 lbs (24.95 kg)
  - 105.6 lbs (47.9 kg)

- **Area**
  - 80 sq yd (66.9 sm)
  - 100 sq yd (83.61 sm)
  - 192 sq yd (165.6 sm)

### Design Permissible Shear Stress

- **Unvegetated Shear Stress**: 2.00 psf (96 Pa)
- **Unvegetated Velocity**: 8.0 fps (2.44 m/s)

### Slope Design Data: C Factors

- **Slope Length (L)**
  - ≤ 3:1: 0.001
  - 3:1 – 2:1: 0.048
  - ≥ 2:1: 0.100

- **NTPEP Large-Scale Slope**
  - ASTM D6459 - C-factor = 0.031

### Roughness Coefficients – Unveg.

- **Flow Depth**
  - ≤ 0.50 ft (0.15 m): 0.050
  - 0.50 – 2.0 ft: 0.050-0.018
  - ≥ 2.0 ft (0.60 m): 0.018

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