



SC32 BD

Specification Sheet

The ErosionControlBlanket SC32 BD is an extended-term 100% biodegradable double net straw/coconut fiber erosion control blanket designed for use on severe slope and channel applications requiring erosion control for up to 24 months depending on moisture, light, and environmental conditions. The blanket is sewn together on 1.5 inch (38.1 mm) centers. The SC32 BD meets all requirements established in the FHWA FP-03 as a Type 3B erosion control blanket for use on slopes with gradients not exceeding 1.5:1 (h:v) and has been tested by the National Transportation Product Evaluation Program (NTPEP). The SC32 BD comes packaged in green shrink-wrap with a brown band and includes installation instructions.

Product Nomenclature & Properties

- SC** = 70% agricultural straw and 30% coconut fiber matrix
- 3** = straw/coconut fiber matrix applied at a rate of 0.5 lbs/yd² (270 g/m²)
- 2** = top and bottom leno woven biodegradable nets with a mesh size of 0.5 x 1.0 in (1.3 x 2.54 cm)
- BD** = 100% biodegradable leno woven net, thread, and matrix to ensure consistent functional longevity

Index & Bench Scale Testing

| Test Description | Test Method | Test Results |
|---|------------------------------|--|
| Mass per Unit Area | ASTM D6475 | 9.34 oz/yd ² |
| Tensile Strength | ASTM D6818 | 18.4 lb/in @ 10.7% MD 14.0 lb/in @ 15.7% TD |
| Thickness | ASTM D6525 | 0.344 in |
| Light Penetration / Ground Cover | ASTM D6567 | 9.3% / 90.7% |
| Water Absorption | ASTM D 1117 & ECTCTASC 00197 | 356% |
| Unvegetated Bench-Scale Rain Splash and Runoff (not to be used as a design value) | ASTM D7101 | Soil Loss Ratio* = 14.01 Soil Loss Ratio* = 16.06 Soil Loss Ratio* = 18.40 |
| Unvegetated Bench-Scale Shear Stress (not to be used as design value) | ASTM D7207 | 2.06 lbs/ft ² @ ½ in. soil loss |
| Seed Germination and Plant Growth Under Bench-Scale Conditions | ASTM D7322 | 375% Improvement (increased biomass) |

*Soil Loss Ratio = Soil Loss Bare Soil / Soil Loss with RECP = 1 / C-Factor (Note: Soil loss is based on regression analysis)

Design Values

- "C" factor = 0.002
- Maximum Permissible Shear Stress = 2.00 lbs/ft² (96 Pa)
- Maximum Permissible Velocity = 8 ft/sec (2.44 m/s)
- Manning's "n" = 0.03

Standard Roll Details

| | | |
|-----------------|--|---|
| Width | 2.44m (8 ft) | 4.88m (16 ft) |
| Standard Length | 34.3m (112.5 ft) | 34.3m (112.5 ft) |
| Area | 83.61m ² (100 yd ²) | 167.22m ² (200 yd ²) |
| Weight ± 10% | 30.8 kg (68 lb) | 61.6 kg (136 lb) |

"Big Daddy" Roll Details

| | | |
|-----------------|--|--|
| Width | 2.44m (8 ft) | 4.88m (16 ft) |
| Standard Length | 102.8m (337.5 ft) | 102.8m (337.5 ft) |
| Area | 250.8m ² (300 yd ²) | 501.6m ² (600 yd ²) |
| Weight ± 10% | 92.5 kg (204 lb) | 185 kg (408 lb) |