

S31 BD

Specification Sheet

The ErosionControlBlanket S31 BD is a short-term 100% biodegradable straw fiber erosion control blanket designed for use on mild slope and channel applications requiring erosion control for up to 12 months depending on moisture, light, and environmental conditions. The blanket is sewn together on 1.5 inch (38.1 mm) centers. The S31 BD meets all requirements established in the FHWA FP-03 as a Type 2C erosion control blanket for use on slopes with gradients not exceeding 3:1 (h:v) and has been tested by the National Transportation Product Evaluation Program (NTPEP). The S31 BD comes packaged in clear shrink-wrap with an orange band and includes installation instructions.

Product Nomenclature & Properties

S = 100% agricultural straw fiber matrix

3 = straw fiber matrix applied at a rate of 0.5 lbs/yd² (270 g/m²)

= a single biodegradable leno woven top net with a mesh size of 0.5×1.0 in $(1.3 \times 2.54 \text{ cm})$

BD = 100% biodegradable leno woven net, thread, and matrix to ensure consistent functional longevity

Index & Bench Scale Testing

| Test Method | Test Results |
|------------------------------|--|
| ASTM D6475 | 6.21 oz/yd ² |
| ASTM D6818 | 10.9 lbs/in @ 11.3% MD 6.6 lbs/in @ 13.1% TD |
| ASTM D6525 | 0.329 in |
| ASTM D6567 | 15.7% / 84.3% |
| ASTM D 1117 & ECTCTASC 00197 | 417% |
| ASTM D7101 | Soil Loss Ratio* = 8.88 Soil Loss Ratio* = 9.02 Soil Loss Ratio* = 9.16 |
| ASTM D7207 | 1.30 lbs/ft ² @ ½ in. soil loss |
| ASTM D7322 | 436% Improvement (increased biomass) |
| | ASTM D6475 ASTM D6818 ASTM D6525 ASTM D6567 ASTM D 1117 & ECTCTASC 00197 ASTM D7101 ASTM D7207 |

Design Values

- "C" factor = 0.03
- Maximum Permissible Shear Stress = 1.5 lbs/ft² (72 Pa)
- Maximum Permissible Velocity = 5 ft./sec. (1.52 m/s)
- Manning's "n" = 0.027

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% | 27.2 kg (60 lb) | 54.4 kg (120 lb) |

"Big Daddy" Roll Details

| Width | 2.44m (8 ft) | 4.88m (16 ft) |
|-----------------|---|-------------------|
| Standard Length | 137.2m (450ft) | 137.2m (450 ft) |
| Area | 334.5m ² (400yd ²) | 669m² (800 yd²) |
| Weight ± 10% | 95.26kg (210 lb) | 190.51kg (420 lb) |