

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/ft² @ 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	120m (393.75ft)	120m (393.75 ft)
Area	292.65m ² (350yd ²)	585.3m ² (700 yd ²)
Weight ± 10%	95.26kg (210 lb)	190.51kg (420 lb)