

# TE-S31 BD

## EROSION CONTROL BLANKET



TE-S31 BD is a short-term 100% biodegradable straw fiber erosion control blanket for use on a 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. TE-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). TE-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/yd<sup>2</sup> (270 g/m<sup>2</sup>)

**1** = a single biodegradable leno woven top net with mesh size of 0.5 x 1.0 in (1.3 x 2.54 cm)

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

TESTED PROPERTY	TEST METHOD	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)
Mass Per Unit Area	ASTM D 6475	oz/yd <sup>2</sup>	6.21
Tensile Strength	ASTM D 6818	lbs/in @ %	10.9 @ 11.3 MD 6.6 @ 13.1 TD
Thickness	ASTM D 6525	in	0.329
Light Penetration / Ground Cover	ASTM D 6567	% / %	15.7 / 84.3
Water Absorption	ASTM D1117 & ECTCTASC 00197	%	417
Unvegetated Bench-Scale Rain Splash & Runoff (not to be used as a design value)	ASTM D 7101	1/sec	Soil Loss Ratio* = 8.88 Soil Loss Ratio* = 9.02 Soil Loss Ratio* = 9.16
Unvegetated Bench-Scale Shear Stress (not to be used as a design value)	ASTM D 7207	lbs/ft <sup>2</sup> @ ½ in soil loss	1.30
Seed Germination & Plant Growth Under Bench-Scale Conditions	ASTM D 7322	% Improvement (Increased biomass)	436
TYPICAL ROLL DIMENSIONS			
Roll Dimensions		ft (m)	8 (2.44) x 112.5 (34.3) 16 (4.88) x 112.5 (34.3)
Roll Area		yd <sup>2</sup> (m <sup>2</sup> )	100 (83.61) 200 (167.23)
Roll Weight ± 10%		lbs (kg)	60 (27.2) 120 (54.4)

NOTES: \*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 = 0.03
- Maximum Permissible Shear Stress = 1.5 lbs/ft<sup>2</sup> (72 Pa)
- Maximum Permissible Velocity = 5 ft/sec (1.52 m/s)
- Manning's "n" = 0.027

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