

TE-S31 BD

EROSION CONTROL BLANKET



TE-S31 BD is a short-term 100% biodegradable straw fiber erosion control blanket 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. 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/yd² (270 g/m²)
- 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 D6475	oz/yd ²	6.21
Tensile Strength	ASTM D6818	lbs/in @ %	10.9 @ 11.3 MD 6.6 @ 13.1 TD
Thickness	ASTM D6525	in	0.329
Light Penetration / Ground Cover	ASTM D6567	% / %	15.7 / 84.3
Water Absorption	ASTM D1117 & ECTCTASC 00197	%	417
Unvegetated Bench-Scale Rain Splash and Runoff (not to be used as a design value)	ASTM D7101		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 D7207	lbs/ft ² @ ½ in. soil loss	1.30
Seed Germination and Plant Growth Under Bench-Scale Conditions	ASTM D7322	% 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 ² (m ²)	100 (83.61) 200 (167.22)
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/ft² (72 Pa)
- Maximum Permissible Velocity = 5 ft/sec (1.52 m/s)
- Manning's "n" = 0.027

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TITAN ENVIRONMENTAL CONTAINMENT

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