

TE-S31

EROSION CONTROL BLANKET



TE-S31 is a short-term 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 in a 1.5-inch (38.1 mm) center. TE-S31 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 comes packaged in clear shrink-wrap with a yellow 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 photodegradable top net with mesh size of 0.588 x 0.5 in (1.49 x 1.3 cm)

= photodegradable net and thread to ensure consistent functional longevity

TESTED PROPERTY	TEST METHOD	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)
Mass Per Unit Area	ASTM D 6475	oz/yd ²	8.56
Tensile Strength	ASTM D 6818	lbs/in @ %	12.2 @ 24.3 MD 3.9 @ 25.6 TD
Thickness	ASTM D 6525	in	0.351
Light Penetration / Ground Cover	ASTM D 6567	% / %	11.7 / 88.3
Water Absorption	ASTM D1117 & ECTCTASC 00197	%	502
Unvegetated Bench-Scale Rain Splash & Runoff (not to be used as a design value)	ASTM D 7101	1/sec	Soil Loss Ratio* = 8.57 Soil Loss Ratio* = 10.89 Soil Loss Ratio* = 13.83
Unvegetated Bench-Scale Shear Stress (not to be used as a design value)	ASTM D 7207	lbs/ft ² @ ½ in soil loss	1.5
Seed Germination & Plant Growth Under Bench-Scale Conditions	ASTM D 7322	% Improvement (Increased biomass)	367
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 (167.23)
Roll Weight ± 10%		lbs (kg)	52 (24) 104 (48)

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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