

TE-SC32

EROSION CONTROL BLANKET



TE-SC32 is an extended-term double net straw/coconut fiber erosion control blanket designed for use on the severe slope and channel applications requiring erosion control for up to 24 months depending on moisture, light, and environmental conditions. The blanket is sewn together on 1.5-inch (38.1 mm) centers. TE-SC32 meets all requirements established in the FHWA FP-03 as a Type 3B erosion control blanket for use on slopes with gradients not exceeding 1.5:1 (h:v) and has been tested by the National Transportation Product Evaluation Program (NTPEP). TE-SC32 comes packaged in clear shrink-wrap with a tan band and included installation instructions.

Product Nomenclature & Properties

SC = 70% agricultural straw fiber matrix

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

2 = top UV stabilized photodegradable black net with a mesh size of 0.626 x 0.626 in (1.59 x 1.59 cm)

= bottom photodegradable net with a mesh size of 0.588 x 0.5 in (1.49 x 1.3 cm)

= UV stabilized photodegradable 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	8.63
Tensile Strength	ASTM D 6818	lbs/in @ %	21.2 @ 20.5 MD 8.4 @21.2 TD
Thickness	ASTM D 6525	in	0.293
Light Penetration / Ground Cover	ASTM D 6567	% / %	6 / 94
Water Absorption	ASTM D1117 & ECTCTASC 00197	%	398
Unvegetated Bench-Scale Rain Splash & Runoff (not to be used as a design value)	ASTM D 7101	1/sec	Soil Loss Ratio* = 16.17 Soil Loss Ratio* = 17.86 Soil Loss Ratio* = 19.73
Unvegetated Bench-Scale Shear Stress (not to be used as a design value)	ASTM D 7207	lbs/ft ² @ ½ in soil loss	2.3
Seed Germination & Plant Growth Under Bench-Scale Conditions	ASTM D 7322	% Improvement (Increased biomass)	558
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)	54 (25) 108 (50)

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 = 2.00 lbs/ft² (96 Pa)
- Maximum Permissible Velocity = 8 ft/sec (2.44 m/s)
- Manning's "n" = 0.03

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Titan Environmental Containment

Toll free: 1-866-327-1957 | info@titanenviro.com | TitanEnviro.com