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SC32

Specification Sheet

The ErosionControlBlanket SC32 is an extended-term double net straw/coconut fiber erosion control blanket designed for use on 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. The 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). The SC32 comes packaged in clear shrink-wrap with a tan band and includes installation instructions.

Product Nomenclature & Properties

SC = 70% agricultural straw and 30% coconut fiber matrix
3 = straw/coconut fiber matrix applied at a rate of 0.43-0.5 lbs/yd^2 (198-270 g/m^2)
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

Index & Bench Scale Testing

Test Description	Test Method	Test Results
Mass per Unit Area	ASTM D6475	7-8 oz/yd^2
Tensile Strength	ASTM D6818	21.2 lb/in @ 20.5% MD 8.4 lb/in @ 21.2% TD
Thickness	ASTM D6525	0.293 in
Light Penetration / Ground Cover	ASTM D6567	6% / 94%
Water Absorption	ASTM D 1117 & ECTCTASC 00197	398%
Unvegetated Bench-Scale Rain Splash and Runoff (not to be used as a design value)	ASTM D7101	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 design value)	ASTM D7207	2.3 lbs/ft^2 @ ½ in. soil loss
Seed Germination and Plant Growth Under Bench-Scale Conditions	ASTM D7322	558% Improvement (increased biomass)

*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 = 0.096
- Maximum Unvegetated Permissible Shear Stress = 2.29 lbs/ft^2 (109 Pa)
- Maximum Permissible Velocity = 8 ft/sec (2.44 m/s)
- Manning's "n" = 0.03

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)	167.23m^2 (200 yd^2)
Weight ±10%	25kg (54lb)	50kg (108lb)

Highway Roll Details

Width	2.44m (8 ft)	4.88m (16 ft)
Standard Length	171.5m (562.5 ft)	171.5m (562.5 ft)
Area	418m^2 (500 yd^2)	836.1m^2 (1000 yd^2)
Weight ±10%	125kg (270lb)	250kg (540lb)