

TE-SC32

EROSION CONTROL BLANKET



TE-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. 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 and 30% coconut 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 D6475 | oz/yd ² | 8.63 |
| Tensile Strength | ASTM D6818 | lbs/in @ % | 21.2 @ 20.5 MD 8.4 @ 21.2 TD |
| Thickness | ASTM D6525 | in | 0.293 |
| Light Penetration / Ground Cover | ASTM D6567 | % / % | 6 / 94 |
| Water Absorption | ASTM D1117 & 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 a design value) | ASTM D7207 | lbs/ft ² @ ½ in. soil loss | 2.3 |
| Seed Germination and Plant Growth Under Bench-Scale Conditions | ASTM D7322 | % 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 (167.22) |
| 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 = 0.002
- 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

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