

TE-P42 TRM

EROSION CONTROL BLANKET



TE-P42 is a turf reinforcement mat made of 100% polypropylene fiber (green or tan) designed for critical slope and channel applications requiring permanent erosion control and turf reinforcement. The matting is sewn together on 1.5-inch (38.1 mm) centers. TE-P42 meets all requirements established in the FHWA FP-03 as a Type 5 A, B, and C turf reinforcement matting for use on slopes with gradients up to 0.5:1 (h:v), channels, and shorelines. TE-P42 has been tested by the National Transportation Product Evaluation Program (NTPEP). TE-P42 comes packaged in clear shrink-wrap with a blue band and includes installation instructions.

Product Nomenclature & Properties

P = 100% polypropylene fiber matrix (tan or green in colour)

4 = polypropylene fiber matrix applied at a rate of 0.75 lbs/yd² (400 g/m²)

2 = top permanent UV stabilized black net with a mesh size of 0.53 x 0.5 in (1.34 x 1.27 cm)

= bottom permanent UV stabilized black net with a mesh size of 0.626 x 0.626 in (1.59 x 1.59 cm) = permanent UV stabilized black thread

TESTED PROPERTY	TEST METHOD	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)
Mass Per Unit Area	ASTM D 6475	oz/yd ²	12.7
Tensile Strength	ASTM D 6818	lbs/in @ %	31.4 @ 27.6 MD 17.7 @ 33.4 TD
Thickness	ASTM D 6525	in	0.446
Light Penetration / Ground Cover	ASTM D 6567	% / %	20 / 80
UV Stability @ 500hrs	ASTM D 4355	%	96
Unvegetated Bench-Scale Rain Splash & Runoff (not to be used as a design value)	ASTM D 7101	1/sec	Soil Loss Ratio* = 6.29 Soil Loss Ratio* = 6.05 Soil Loss Ratio* = 5.81
Unvegetated Bench-Scale Shear Stress (not to be used as a design value)	ASTM D 7207	lbs/ft ² @ ½ in soil loss	3.07
Seed Germination & Plant Growth Under Bench-Scale Conditions	ASTM D 7322	% Improvement (Increased biomass)	508
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)	75 (62.7) 150 (125.4)
Roll Weight ± 10%		lbs (kg)	61 (28) 122 (56)

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 = 0.001
- Unvegetated Maximum Permissible Shear Stress = 3.30 lbs/ft² (158.4 Pa)
- Vegetated Maximum Permissible Shear Stream = 14.0 lbs/ft² (665 Pa)
- Maximum Flow Velocity Unvegetated = 12 ft/s (3.8 m/s)
- Maximum Flow Velocity Vegetated = 21 ft/s (6.65 m/s)
- Unvegetated Manning's "n" = 0.03 (The hydraulic roughness coefficient will vary for vegetated conditions based on vegetation stand height and density)

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