TE-PC42

TURF REINFORCEMENT MAT

TTE-PC42 turf reinforcement matting is manufactured from a composition of 67% polypropylene fiber and 33% coconut fiber stitched between a black UV-stabilized polypropylene top net with a mesh size of 1.34 x 1.27 cm (0.53 x 0.5 in) and a black UV stabilized polypropylene bottom net with a mesh size of 1.59 x 1.59 cm (0.626 x 0.626 in). The "PC" and "4" represent the polypropylene and coconut fiber applied at a minimum of 400 g/m² (0.75 lbs/yd²) and the "2" represents that the mat is netted on the top and bottom sides. TE-PC42 is a permanent turf reinforcement mat. The mat is sewn together on 38.1 mm (1.5 in) centers, with UV-stabilized polypropylene black thread. Each roll of TE-PC42 is packaged in clear shrink-wrap with a blue band and includes installation instructions.

Index Test Results from Bench Scale Testing (TRI Environmental Labs or NTPEP)

TESTED PROPERTY	TEST METHOD	PARMETERS	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)
Mass Per Unit Area	ASTM D 6566	Index Test	oz/yd²	10.8
Tensile Strength	ASTM D 6818	Index Text	lbs/in @ %	27.3 @ 38.6 15.7 @ 27.4
Thickness	ASTM D 6525	Index Test	in	0.390
Light Penetration / Ground Cover	ASTM D 6567	Index Text	% / %	79.7 / 20.3
UV Stability @ 500hrs	ASTM D 4355	Index Test	%	86
Determination of Unvegetated RECP Ability to Protect Soil From Hydraulically - Induces Shear Stresses Under Bench-Scale Conditions	ASTM D 7207 ECTC Method 3	Regression (Power Curve)	psf @ ½ in soil loss	3.3
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			yd² (m²)	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
- 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)

Titan Environmental Containment

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