ETTT-SC Erosion Control Blanket

ETTT-SC Triple Net Staw/Coir Turf Reinforcement Mat

A permanent turf reinforced mat blanket featuring 70% straw and 30% coir fill with three polypropylene nets securely sewn together with UV stabilized thread. This product meets all FHWA FP-03 requirements for a Type 5.A, 5.B, 5.C erosion control blanket.

Part Numbers	ETTT-SC100	ETTT-SC200
Blanket Size	8 ft x 112.5 ft	16 ft x 112.5 ft
Rolls per Pallet	9	9
Rolls per Truck Load	234	108
Netting	Top & Bottom Net – 5 lb UV Stabilized Polypropylene/ Middle Net – 24 lb UV Stabilized Polypropylene	
Opening Size	1/2 in opening – top, middle, bottom	
Stitching Thread	UV Stabilized Polypropylene	
Stitching Frequency	2 in	
Fill	70% Straw 30% Coir	
Packaging	Each Roll is Individually Stretched Wrapped with a Label	

INDEX TESTING	TEST METHOD	UNIT	ENGLISH
Mass per Unit Area	ASTM D 6475	oz / sq yd	12.5
Thickness	ASTM D 6525	mils	275
Tensile Strength	ASTM D 6818	lb/in	55.4 x 42.9
Ground Cover / Light Penetration	ASTM D 6567	%	95.7 / 4.3
Water Absorption	ASTM D 1117	% wt Change	337.7
BENCH-SCALE TESTING	**TEST METHOD**	**Parameter**	**ENGLISH**
Determination of Unvegetated RECP Ability to Protect Soil from Rain Splash and Associated Runoff Under Bench-Scale Conditions	ASTM D 7101	50 mm (2 in.) / hr for 30 min.	Soil Loss Ratio = 20.53
		100 mm (4 in.) / hr for 30 min.	Soil Loss Ratio = 24.69
		150 mm (6 in.) / hr for 30 min.	Soil Loss Ratio = 22.19
Determination of Unvegetated RECP Ability to Protect Soil from Hydraulically Induced Shear Stresses Under Bench-Scale Conditions	ASTM D 7207	Shear: 1.69 psf for 30 min.	Soil Loss = 14.4 g
		Shear: 2.84 psf for 30 min.	Soil Loss = 272.2 g
		Shear: 4.03 psf for 30 min.	Soil Loss = 873.6 g
		Soil loss curve intercept =	3.37 psf @ ½-in soil loss
Determination of Temporary Degradable RECP Performance in Encouraging Seed Germination and Plant Growth	ASTM D 7322	Topsoil; Fescue (Kentucky 31); 21-day incubation; 27±2° & approximately 45±5% RH	% of Control
			= 217%
			(increased biomass)
LARGE-SCALE TESTING	**TEST METHOD**	**UNIT**	**ENGLISH**
Slope Erosion	ASTM D 6459	C Factor	TBD
Channel Erosion	ASTM D 6460	lb/ft^2	2.39

Notes:

1. Soil Loss Ratio = Soil Loss Bare Soil / Soil Loss with RECP = 1 / C-Factor (Note: soil loss is based on regression analysis).
2. Permissible Velocity and Shear Stress have been obtained through large scale test programs featuring specific soil types, vegetation classes, flow conditions, anchor methods, and failure criteria. These conditions may not be relevant to every project nor can they be replicated by other manufacturers. Please contact your Erosion Tech rep for more information.
3. Design Performance Criteria for Vegetated Velocity and Shear Stress are estimated values given the typical industry results for RECP's manufactured to FHWA FP-03 Type 3.B standards and with similar physical properties. The Designing Engineer is responsible for determining the suitability of this product on projects.

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