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Material and Performance Specification

ECP-2 10 oz.TM Polypropylene Turf Reinforcement Mat

Description:

The ECP-2 10 oz.TM is made with uniformly distributed 100% polypropylene fiber and two medium weight polypropylene nets securely sewn together with UV stabilized thread. The tightly compressed blankets are wrapped and include a product label, code and installation guide. The blankets are palletized for easy transportation. The ECP-2 10 oz.TM is a permanent turf reinforcement mat and is suitable for 1:1 slopes and high-flow channels. The ECP-2 10 oz.TM meets Type 5.A, 5.B specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.18.

Matrix:	1		2			
Green or Tan Polypropylene Fiber						
Netting:	Type					Net Color
Top: Medium weight 5# PMSF UV Stabilized Polypropylene						Black
Middle: None						
Bottom: Medium weight 5# PMSF UV Stabilized Polypropylene						
Net Opening:	Top		Middle		Bottom	
0.5" x 0.5"			0.5" x 0.5"			
Thread:	Type		Color			
UV Stabilized Thread			Black			
Roll Sizes:	Standard		"A" Size		Mega	
Width:	8 ft	2.4 m	4 ft	1.2 m	16 ft	4.9 m
Length:	112.5 ft	34.3 m	225 ft	68.6 m	112.5 ft	34.3 m
Weight:*	62 lbs	28.1 kg	62 lbs	28.1 kg	124 lbs	56.2 kg
Area:	100 yd²	83.6 m²	100 yd²	83.6 m²	200 yd²	167.2 m²
#/Pallet:	16		9		16	

*Weight at time of manufacturing within specified tolerances.

Index Value Properties*:

Property	Test Method	Typical
Mass/Unit Area	ASTM D6566	10.00 oz/yd ² 339.1 g/m ²
Thickness	ASTM D6525	0.40 in 10.16 mm
Tensile Strength-MD	ASTM D6818	370 lb/ft 5.40 kN/m
Elongation-MD	ASTM D6818	24 %
Tensile Strength-TD	ASTM D6818	315 lb/ft 4.60 kN/m
Elongation-TD	ASTM D6818	20.0 %
Light Penetration	ASTM D6567	25 %
Density / Specific Gravity	ASTM D792	0.917 g/cm ³
Water Absorption	ASTM D1117	0 %
Resiliency	ASTM D6524	80 %
UV Resistance	ASTM D4355	82 % 1000 hours

*May differ depending upon raw material variations

Slope Performance Design Values*:

Property	Test Method	Value
C-Factors	ASTM D6459	0.01
Slope Length (L)	≤ 3:1	3:1-2:1 ≥ 2:1
< 50 ft (15 m)	0.009	0.019 0.062
50 ft – 100 ft	0.025	0.044 0.077
>100 ft (30 m)	0.053	0.072 0.096

*Large-Scale Results obtained by 3rd Party GAI Accredited Independent Laboratory

Bench-Scale Testing* (NTPEP***):

Test Method	Parameters	Results
	50mm (2in) / hr-30 min	SLR**=4.58
ECTC Method 2 Rainfall	100mm (4in) / hr-30 min	SLR**=8.80
	150mm (6in) / hr-30 min	SLR**=16.92

ECTC Method 3 Shear Resistance Shear at .50 in soil loss 2.42 lb/ft²

ECTC Method 4 Germination Top soil; Fescue; 21 day incubation 482 %

*Bench scale tests should not be used for design purposes.

**Soil Loss Ratio=Soil Loss Bare Soil/Soil Loss with RECP=1/C-Factor

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Channel Performance Design Values*:

Property	Test Method	Value
Unvegetated Shear Stress	ASTM D 6460	2.30 lbs/ft ² 110.12 Pa
Unvegetated Velocity	ASTM D 6460	9.0 ft/s 2.74 m/s
Vegetated Shear Stress	ASTM D 6460	10.0 lbs/ft ² 478.80 Pa
Vegetated Velocity	ASTM D 6460	18.0 ft/s 5.49 m/s
Manning's N (Value Represents a Range)		0.024

*Large-Scale Results obtained by 3rd Party GAI Accredited Independent Laboratory

The values presented are for guidance purposes and do not constitute the practice of engineering. East Coast Erosion Blankets LLC (ECEB) ascertains that at the time of manufacture, all information presented herein is accurate and reliable and falls within the ECEB manufacturing product specification variances. If the product does not meet the stated values and ECEB is notified in writing prior to installation, the product will be replaced at no cost to the purchaser. ECEB will not be held liable for any type of damage or losses, directly or indirectly for failure of this product. Current revision supersedes all previous versions for this product.