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Material and Performance Specification

ECP-3[™] Polypropylene Turf Reinforcement Mat

Description:

The ECP-3[™] is made with uniformly distributed 100% green polypropylene fiber and three heavyweight 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-3[™] is a permanent turf reinforcement mat and is suitable for 1:1 slopes and high-flow channels. The ECP-3[™] meets Type 5.A, 5.B, and 5.C 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 P	olypropylene Fiber		
Netting:	1	Гуре		Net Color
Тор: Неа	avyweight 24# PMSF	UV Stabilized Polypropyl	ene	Black
Middle: Hea	avyweight 24# PMSF	UV Stabilized Polypropyl	ene	
Bottom: Hea	avyweight 24# PMSF	UV Stabilized Polypropyl	ene	
Net Opening:	•	Тор	Middle	Bottom
	0.4	" x 0.5"	0.4" x 0.5"	0.4" x 0.5"
Thread:		Туре	Color	
	UV Stabiliz	ed Thread	Black	
Roll Sizes:	Sta	andard	"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:*	125 lbs	56.7 kg	125 lbs 56.7 kg	250 lbs 113.4 kg
Area:	100 yd ²	83.6 m ²	100 yd² 83.6 m²	200 yd² 167.2 m²
#/Pallet:		6	4	6

*Weight at time of manufacturing within specified tolerances.

Index Value Properties*:					
Property	Test Method		Typical		
Mass/Unit Area	ASTM D6566	19.00	oz/yd²	644.2 g/m2	
Thickness	ASTM D6525	0.41	in	10.41 mm	
Tensile Strength-MD	ASTM D6818	1232	lb/ft	17.98 kN/m	
Elongation-MD	ASTM D6818	29	%		
Tensile Strength-TD	ASTM D6818	1192	lb/ft	17.40 kN/m	
Elongation-TD	ASTM D6818	19.0	%		
Light Penetration	ASTM D6567	15	%		
Density / Specific Gravity	ASTM D792	0.913	g/cm ³		
Water Absorption	ASTM D1117	0	%		
Resiliency	ASTM D6524	93	%		
UV Resistance	ASTM D4355	100	%	1000 hours	

*May differ depending upon raw material variations

ilope Performance Design Values*:				
Property	rty Test Method		Value	
C-Factors	ASTM D	6459	0.00	
Slope Length (L)	≤ 3:1	3:1-2:1	≥ 2:1	
< 50 ft (15 m)	0.000	0.001	0.022	
50 ft – 100 ft	0.005	0.009	0.029	
>100 ft (30 m)	0.016	0.025	0.036	

*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**=7.68	
ECTC Method 2 Rainfall	100mm (4in) / hr-30 min	SLR**=10.42	
	150mm (6in) / hr-30 min	SLR**=14.15	
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	3.51 lb/ft ²	
ECTC Method 4 Germination To	p soil; Fescue; 21 day incub	ation 426 %	

*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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Property	Test Method		Value		
Unvegetated Shear Stress	ASTM D 6460	3.80	lbs/ft ²	181.94	Ра
Unvegetated Velocity	ASTM D 6460	12.1	ft/s	3.69	m/s
Vegetated Shear Stress	ASTM D 6460	14.0	lbs/ft ²	670.32	Ра
Vegetated Velocity	ASTM D 6460	25.0	ft/s	7.62	m/s
Manning's N (Value Represe	ents a Range)		0.0	28	

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.