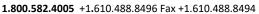


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Material and Performance Specification

ECP-2™ Polypropylene Turf Reinforcement Mat

Description:

The ECP-2™ is made with uniformly distributed 100% green 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™ is a permanent turf reinforcement mat and is suitable for 1:1 slopes and high-flow channels. The ECP-2™ 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	N	I/A			
Netting:	Type				Net (Net Color	
Top:	: Medium weight 5# PMSF UV Stabilized Polypropylene		lypropylene		Black		
Middle:							
Bottom:	Medium weight 5# PM	SF UV Stabilized Pol	lypropylene				
Net Opening: To		Тор	Mi	ddle	Bottom		
	0.5" x 0.5"		N	N/A		0.5" x 0.5"	
Thread:	Туре		Co	Color			
	UV Stabilized Thread		В	Black			
Roll Sizes:	Sta	andard	"A"	' Size	Me	ga	
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:*	75 lbs	34.0 kg	75 lbs	34.0 kg	150 lbs	68.0 kg	
Area:	100 yd²	83.6 m ²	100 yd²	83.6 m ²	200 yd²	167.2 m ²	
#/Pallet:		9		6			

^{*}Weight at time of manufacturing within specified tolerances.

Index Value Properties*:						
Property	Test Method	Ту	pical			
Mass/Unit Area	ASTM D6566	12.00 oz/yd²	406.9 g/m2			
Thickness	ASTM D6525	0.40 in	10.16 mm			
Tensile Strength-MD	ASTM D6818	400 lb/ft	5.84 kN/m			
Elongation-MD	ASTM D6818	31 %				
Tensile Strength-TD	ASTM D6818	400 lb/ft	5.84 kN/m			
Elongation-TD	ASTM D6818	19.0 %				
Light Penetration	ASTM D6567	18 %				
Density / Specific Gravity	ASTM D792	0.915 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

a Daufaumana D	sian Values*.		
pe Performance De Property	Test Me	thod	Value
C-Factors	ASTM D	0.01	
Slope Length (L)	≤ 3:1	3:1-2:1	≥ 2:1
< 50 ft (15 m)	0.012	0.025	0.092
50 ft – 100 ft	0.036	0.065	0.115
>100 ft (30 m)	0.080	0.108	0.145

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

Test Method	Parameters	Results	
	50mm (2in) / hr-30 min	SLR**=5.53	
ECTC Method 2 Rainfall	100mm (4in) / hr-30 min	SLR**=5.38	
	150mm (6in) / hr-30 min	SLR**=5.22	
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	2.72 lb/ft ²	
ECTC Method 4 Germination To	p soil; Fescue; 21 day incub	ation 469 %	

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

^{***}The preceding test data excerpts were reproduced with the permission of AASHTO, however, this does not constitute endorsement or approval of the product, material or device by AASHTO

Channel Performance Design Values*:						
Property	Test Method		Value			
Unvegetated Shear Stress	ASTM D 6460	2.60	lbs/ft ²	124.49	Pa	
Unvegetated Velocity	ASTM D 6460	10.0	ft/s	3.05	m/s	
Vegetated Shear Stress	ASTM D 6460	12.0	lbs/ft ²	574.56	Pa	
Vegetated Velocity	ASTM D 6460	20.0	ft/s	6.10	m/s	
Manning's N (Value Represents a Range)			0.01	28	- 11	

^{*}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.

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