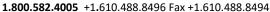


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Material and Performance Specification

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					
Netting:	1	Гуре				Net	Color	
Top:	Medium weight 5# PM	SF UV Stabilize	ed Polypropylene			BI	ack	
Middle:	None							
Bottom:	Medium weight 5# PM	SF UV Stabilize	ed Polypropylene					
Net Opening:		Тор		Middle		Bot	Bottom	
	0.5	" x 0.5"				0.5"	x 0.5"	
Thread:		Туре		Col	or			
	UV Stabiliz	ed Thread		Blac	ck			
Roll Sizes:	Sta	andard		"A" S	ize	M	ega	
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			9	

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

Index Value Properties*:						
Property	Test Method	Typical				
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

Slope Performance De	esign Values*:			
Property	Test Method		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

Bench-Scale Testing* (NTPEP	***):	
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 %
*Rench scale tests should not be	used for design nurnoses	

^{**}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/ft²	574.56	Pa		
Vegetated Velocity	ASTM D 6460	20.0	ft/s	6.10	m/s		
Manning's N (Value Represe	ents a Range)		0.02	28			

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