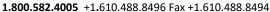


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Material and Performance Specification

ECP-2 10 oz.™ Polypropylene Turf Reinforcement Mat

Description:

The ECP-2 10 oz™ 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™ is a permanent turf reinforcement mat and is suitable for 1:1 slopes and high-flow channels. The ECP-2 10 oz™ 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 P	olypropylene	Fiber				
Netting:		Гуре				Net	Color
Top:	p: Medium weight 5# PMSF UV Stabilized Polypropylene		ed Polypropylene			BI	ack
Middle:	None						
Bottom:	Medium weight 5# PM	SF UV Stabiliz	ed Polypropylene				
Net Opening:	Тор		Top Middle		Bot	Bottom	
	0.5" x 0.5"					0.5"	x 0.5"
Thread:		Туре		Co	lor		
	UV Stabilized Thread			Black			
Roll Sizes:	Sta	andard		"A"	Size	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:*	62 lbs	28.1 kg	62	lbs	28.1 kg	124 lbs	56.2 kg
Area:	100 yd²	83.6 m ²	100	yd ²	83.6 m ²	200 yd²	167.2 m ²
#/Pallet:		16		9)	1	.6

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

Index Value Properties*:						
Test Method	T	ypical				
ASTM D6566	10.00 oz/yd²	339.1 g/m2				
ASTM D6525	0.40 in	10.16 mm				
ASTM D6818	370 lb/ft	5.40 kN/m				
ASTM D6818	24 %					
ASTM D6818	315 lb/ft	4.60 kN/m				
ASTM D6818	20.0 %					
ASTM D6567	25 %					
ASTM D792	0.917 g/cm^3					
ASTM D1117	0 %					
ASTM D6524	80 %					
ASTM D4355	82 %	1000 hours				
	Test Method ASTM D6566 ASTM D6525 ASTM D6818 ASTM D6818 ASTM D6818 ASTM D6818 ASTM D6818 ASTM D6567 ASTM D792 ASTM D1117 ASTM D6524	Test Method Total ASTM D6566 10.00 oz/yd² ASTM D6525 0.40 in ASTM D6818 370 lb/ft ASTM D6818 24 % ASTM D6818 315 lb/ft ASTM D6818 20.0 % ASTM D6567 25 % ASTM D792 0.917 g/cm³ ASTM D1117 0 % ASTM D6524 80 %				

^{*}May differ depending upon raw material variations

Slope Performance De	esign Values*:			
Property	ty Test Method		Value	
C-Factors	ASTM D	0.01		
Slope Length (L)	≤ 3:1	3:1-2:1	≥ 2:1	
< 50 ft (15 m)	0.009	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/ft ²			
ECTC Method 4 Germination To	p soil; Fescue; 21 day incub	ation 482 %			
*Bench scale tests should not be u	used for design purposes.				

^{**}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	2.30	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/ft²	478.80	Pa		
Vegetated Velocity	ASTM D 6460	18.0	ft/s	5.49	m/s		
Manning's N (Value Represe	ents a Range)		0.02	24	-		

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