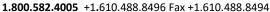


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Material and Performance Specification

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	2			
	Green or Tan F	Polypropylene	Fiber					
Netting:		Туре				Net	Color	
Top:	: Medium weight 5# PM	ISF UV Stabilize	ed Polypropylene			В	ack	
Middle:	None							
Bottom:	: Medium weight 5# PM	ISF UV Stabilize	ed Polypropylene					
Net Opening:		Тор		Middle		Во	Bottom	
	0.5	5" x 0.5"				0.5"	x 0.5"	
Thread:		Туре		Co	lor			
	UV Stabili	zed Thread		Bla	ick			
Roll Sizes:	St	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 yd ²	83.6 m ²	100	yd²	83.6 m ²	200 yd²	167.2 m ²	
#/Pallet:		16		ġ)		16	

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

Index Value Properties*:							
Property	Test Method	Ty	ypical				
Mass/Unit Area	ASTM D6566	10.00 oz/yd ²	339.1 g/m2				
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 De	esign Values*:			
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)	0.009	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 %			
*Rench scale tests should not be a	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	2.30	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