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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, 5.C and 5.D 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	Polypropylene Fibe	r	N/A		
Netting:		Туре			Net Colo	or
Top:	Medium weight 5# PM	ISF UV Stabilized P	olypropylene		Black	
Middle:	None					
Bottom:	Medium weight 5# PM	ISF UV Stabilized P	olypropylene			
Net Opening:		Тор		Middle	Bottom	1
	0.5	5" x 0.5"		N/A	0.5" x 0.5	5"
Thread:		Туре		Color		
	UV Stabiliz	zed Thread		Black		
Roll Sizes:	Sta	andard		"A" Size	Mega	
Width:	8 ft	2.4 m	4.00	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	4.3 m
Weight:*	75 lbs	34.0 kg	75	lbs 34.0 kg	150 lbs 6	8.0 kg
Area:	100 yd ²	83.6 m ²	100	yd ² 83.6 m ²	200 yd ² 16	7.2 m ²
#/Pallet:		9		9	9	

*Weight at time of manufacturing within specified tolerances.

Droportu	Test Method		т.	minal		
Property	rest wiethod	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

lope Performance Design Values*:					
Property	Test Me	Value 0.01			
C-Factors	ASTM D				
Slope Length (L)	≤ 3:1	3:1-2:1	≥ 2:1		
< 50 ft (15 m)	0.007	0.012	0.081		
50 ft – 100 ft	0.017	0.030	0.097		
>100 ft (30 m)	0.028	0.050	0.108		

*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 %	

benefi seale tests should not be asea for design parposes.

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

Property	Test Method		Value		
Unvegetated Shear Stress	ASTM D 6460	2.60	lbs/ft ²	124.49	Ра
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	Ра
Vegetated Velocity	ASTM D 6460	20.0	ft/s	6.10	m/s
Manning's N (Value Represents a Range)			0.02	28	
*Large-Scale Results obtain Laboratory	ed by 3 rd Party GA	I Accred	ited Inde	pendent	

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.