

## Proud Member and Participant of: www.eastcoasterosion.com 443 Bricker Road Bernville, PA 19506 1.800.582.4005 +1.610.488.8496 Fax +1.610.488.8494

## Material and Performance Specification

## ECP-2 10 oz.<sup>™</sup> Polypropylene Turf Reinforcement Mat

## **Description:**

The ECP-2 10 oz<sup>TM</sup> 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<sup>TM</sup> is a permanent turf reinforcement mat and is suitable for 1:1 slopes and high-flow channels. The ECP-2 10 oz<sup>TM</sup> 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 F	olypropylene Fib	er				
Netting:	Туре					Net Color	
Top: Mec	lium weight 5# PM	ISF UV Stabilized	Polypropylene		Bla	ck	
Middle: Non							
Bottom: Mec	lium weight 5# PM	ISF UV Stabilized	Polypropylene				
Net Opening: 1		Тор	Midd	Middle		om	
	0.5" x 0.5"				0.5" ×	: 0.5"	
Thread:	Type UV Stabilized Thread		Colo	Color			
			Black	Black			
Roll Sizes:	Standard		"A" Si	"A" Size		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 6	68.6 m	112.5 ft	34.3 m	
Weight:*	62 lbs	28.1 kg	62 lbs 2	28.1 kg	124 lbs	56.2 kg	
Area:	100 yd²	83.6 m <sup>2</sup>	100 yd² 8	83.6 m <sup>2</sup>	200 yd <sup>2</sup>	167.2 m <sup>2</sup>	
#/Pallet:		16	9		1	6	

\*Weight at time of manufacturing within specified tolerances.

Index Value Properties*:					
Property	Test Method	т	ypical		
Mass/Unit Area	ASTM D6566	10.00 oz/yd <sup>2</sup>	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 <sup>3</sup>			
Water Absorption	ASTM D1117	0 %			
Resiliency	ASTM D6524	80 %			
UV Resistance	ASTM D4355	82 %	1000 hours		
*May differ depending up		viations			

\*May differ depending upon raw material variations

lope Performance Design Values*:					
Property	Test Me	Value 0.01			
C-Factors	ASTM D6459				
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 3<sup>rd</sup> Party GAI Accredited Independent Laboratory

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 <sup>2</sup>	
ECTC Method 4 Germination To	p soil; Fescue; 21 day incub	ation 482 %	

\*\*Soil Loss Ratio=Soil Loss Bare Soil/Soil Loss with RECP=1/C-Factor

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Property	Test Method	Value			
Unvegetated Shear Stress	ASTM D 6460	2.30	lbs/ft <sup>2</sup>	110.12	Ра
Unvegetated Velocity	ASTM D 6460	9.0	ft/s	2.74	m/s
Vegetated Shear Stress	ASTM D 6460	10.0	lbs/ft <sup>2</sup>	478.80	Ра
Vegetated Velocity	ASTM D 6460	18.0	ft/s	5.49	m/s

\*Large-Scale Results obtained by 3<sup>rd</sup> 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 mevious versions for this product.

Distributed By:



5 Pine Camp Dr. Binghamton, NY 13904 F

Phone (607) 729-5111

(800) 659-5111 Fax (607) 729-5158 www.iviindustries.com IVI-EC-3323-1117-C146A