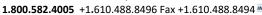


## Proud Member and Participant of:

www.eastcoasterosion.com

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## **Material and Performance Specification**

## ECS-2® Double Net Straw Rolled Erosion Control Product

## **Description:**

Matrix:

The ECS-2® is made with uniformly distributed 100% agricultural straw and two polypropylene nets securely sewn together with degradable thread. The tightly compressed blankets are wrapped and include a product label, code and installation guide. The blankets are palletized for easy transportation.

The ECS-2® has functional longevity of approximately 12 months, but will vary depending on soil and climatic conditions, and is suitable for slopes 2:1 or less and low to medium flow channels. The ECS-2® meets Type 2.D specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17.

TVIGITIZE.							
	100	N,	N/A				
Netting:	1	Гуре		Net Color		Color	
Top:	pp: Lightweight Photodegradable Polypropylene		ne			Green	
Middle:	None						
Bottom:	Lightweight Photodegr	adable Polypropyler	ne				
<b>Net Opening:</b>	Тор		Mic	Middle		Bottom	
	0.5" x 0.5"		N,	N/A		0.5" x 0.5"	
Thread:	Туре		Co	Color			
	Degradable Thread		Wh	White			
Roll Sizes:	St	andard	"A"	Size	Me	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	68.6 m	112.5 ft	34.3 m	
Weight*:	53 lbs	24.0 kg	53 lbs	24.0 kg	106 lbs	48.1 kg	
Area:	100 yd <sup>2</sup>	83.6 m <sup>2</sup>	100 yd <sup>2</sup>	83.6 m <sup>2</sup>	200 yd <sup>2</sup>	167.2 m <sup>2</sup>	

<sup>\*</sup>Weight at time of manufacturing.

#/Pallet:

Property	Test Method		Typical			
Mass/Unit Area	ASTM D6475	8.50 oz/yd <sup>2</sup>	288.2 g/m2			
Thickness	ASTM D6525	0.32 in	8.13 mm			
Tensile Strength-MD	ASTM D6818	150 lb/ft	2.19 kN/m			
Elongation-MD	ASTM D6818	28 %				
Tensile Strength-TD	ASTM D6818	80 lb/ft	1.17 kN/m			
Elongation-TD	ASTM D6818	29.4 %				
Light Penetration	ASTM D6567	19 %				
Density / Specific Gravity	ASTM D792	N/A g/cm <sup>3</sup>				
Water Absorption	ASTM D1117	390 %				

<sup>\*</sup>May differ depending upon raw material variations

lope Performance De	esign 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)	0.014	0.077	N/A
50 ft – 100 ft	0.048	0.084	N/A
>100 ft (30 m)	0.086	0.125	N/A

<sup>\*</sup>Large-Scale Results obtained by 3<sup>rd</sup> Party GAI Accredited Independent Laboratory

Test Method	Parameters	Results
	50mm (2in) / hr-30 min	SLR**=5.84
ECTC Method 2 Rainfall	100mm (4in) / hr-30 min	SLR**=6.87
	150mm (6in) / hr-30 min	SLR**=8.09
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	1.61 lb/ft <sup>2</sup>
ECTC Method 4 Germination To	p soil; Fescue; 21 day incub	ation 455 %
*Bench scale tests should not be	used for design purposes.	

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<sup>\*\*\*</sup>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	2.05	lbs/ft <sup>2</sup>	98.15	Pa
Unvegetated Velocity	ASTM D 6460	7.5	ft/s	2.29	m/s
Vegetated Shear Stress	NA	N/A	lbs/ft <sup>2</sup>	N/A	Pa
Vegetated Velocity	NA	N/A	ft/s	N/A	m/s
Manning's N (Value Represents a Range)			0.02	29	

<sup>\*</sup>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 previous versions for this product.

Revised 1/1/20177

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