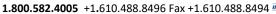


Proud Member and Participant of:

www.eastcoasterosion.com

443 Bricker Road Bernville, PA 19506









Material and Performance Specification

ECS-2® Double Net Straw Rolled Erosion Control Product

Description:

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.

Matrix:		1		2			
	100	% Straw					
Netting:	Туре				Net Co	Net Color	
Top:	Top: Lightweight Photodegradable Polypropylene			Green		n	
Middle:	: None						
Bottom:	: Lightweight Photodegra	adable Polypropylene					
Net Opening:	д: Тор			Middle	Botto	Bottom	
	0.5" x 0.5"				0.5" x (0.5"	
Thread:	Type Degradable Thread			Color			
				White			
Roll Sizes:	Sta	andard	u	A" Size	Meg	;a	
Width	: 8 ft	2.4 m	4 f	t 1.2 m	16 ft	4.9 m	
Length:	: 112.5 ft	34.3 m	225 f	t 68.6 m	112.5 ft	34.3 m	
Weight*:	: 53 lbs	24.0 kg	53 I	bs 24.0 kg	106 lbs	48.1 kg	
Area	: 100 yd²	83.6 m ²	100 y	/d² 83.6 m²	200 yd ² 2	167.2 m ²	
#/Pallet:	:	25		9	25		

^{*}Weight at time of manufacturing.

Index Value Properties*:				
Property	Test Method	Ту	pical	
Mass/Unit Area	ASTM D6475	8.50 oz/yd ²	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 ³		
Water Absorption	ASTM D1117	390 %		

^{*}May differ depending upon raw material variations

pe 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

^{*}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**=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 ²		
ECTC Method 4 Germination To	p soil; Fescue; 21 day incub	ation 455 %		
*Bench scale tests should not be	used for design purposes.			
**Soil Loss Ratio=Soil Loss Bare So	oil/Soil Loss with RECP=1/C-	-Factor		
***The preceding test data excer	nts were reproduced with t	he nermission		

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 ²	98.15	Pa
Unvegetated Velocity	ASTM D 6460	7.5	ft/s	2.29	m/s
Vegetated Shear Stress	NA	N/A	lbs/ft ²	N/A	Pa
Vegetated Velocity	NA	N/A	ft/s	N/A	m/s
Manning's N (Value Represe		0.02	19		

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