

Material and Performance Specification

ECS-2D[™] Temporary Double Net Straw Rolled Erosion Control Product

Description:

The ECS-2D[™] 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-2D[™] has functional longevity of approximately 45 to 90 days, but will vary depending on soil and climatic conditions, and is suitable for slopes 2:1 to 3:1 and low to medium flow channels. The ECS-2D[™] meets Type 1.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	2				
	100	0% Straw		N,	/A				
Netting:		Туре					Ne	t Color	
Top:	Accelerated Lightweigh	nt Photodegra	dable Polypropylene				Clear	- 1% UVD	
Middle:	None								
Bottom:	Accelerated Lightweigh	nt Photodegra	dable Polypropylene						
Net Opening:		Тор		Mic	ldle		B	ottom	
	0.5	5" x 0.5"		N,	/A		0.5	" x 0.5"	
Thread:		Туре		Со	lor				
	Degradal	ble Thread		Wł	ite				
Roll Sizes:	St	andard		"A"	Size		ſ	Леда	
Width:	8 ft	2.4 m	4.00	ft	1.2 m	ı	16 ft	4.9 m	
Length:	112.5 ft	34.3 m	225	ft	68.6 m	ı	112.5 ft	34.3 m	
Weight*:	53 lbs	24.0 kg	53	lbs	24.0 kg	g	106 lb	s 48.1 kg	
Area:	100 yd ²	83.6 m ²	100	yd²	83.6 m	1 ²	200 yd	² 167.2 m ²	
#/Pallet:		25		9)			25	

*Weight at time of manufacturing.

Index Value Properties*:					
Property	Test Method	Typical			
Mass/Unit Area	ASTM D6475	8.50 oz/	/yd² 288.2	g/m2	
Thickness	ASTM D6525	0.32 in	8.13	mm	
Tensile Strength-MD	ASTM D6818	169.00 lb/	ft 2.47	kN/m	
Elongation-MD	ASTM D6818	28 %			
Tensile Strength-TD	ASTM D6818	107.00 lb/	ft 1.56	kN/m	
Elongation-TD	ASTM D6818	29.4 %			
Light Penetration	ASTM D6567	19 %			
Density / Specific Gravity	ASTM D792	N/A g/c	cm ³		
Water Absorption	ASTM D1117	368 %			
*May differ depending up	on raw material v	ariations			

Class Base	 D 1 1 /	
Slope Per		

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Property	Test Me	thod	Value	
C-Factors	ASTM D6459		0.01	
Slope Length (L)	≤ 3:1	3:1-2:1	≥ 2:1	
< 50 ft (15 m)	0.005	0.076	N/A	
50 ft – 100 ft	0.078	0.078	N/A	
>100 ft (30 m)	0.038	0.080	N/A	

*Large-Scale Results obtained by 3rd Party GAI Accredited Independent Laboratory

Bench-Scale Testing* (NTPE	D***):		
Test Method	Parameters	Results	
	50mm (2in) / hr-30 min	SLR**=7.89	
ECTC Method 2 Rainfall	100mm (4in) / hr-30 min	SLR**=8.83	
	150mm (6in) / hr-30 min	SLR**=9.90	
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	1.50 lb/ft ²	
ECTC Method 4 Germination T	op soil; Fescue; 21 day incub	oation 542 %	
*Bench scale tests should not be	used for design purposes.		

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		Valu	Je		
Unvegetated Shear Stress	ASTM D 6460	2.05	lbs/ft ²	98.15	Ра	
Unvegetated Velocity	ASTM D 6460	7.5	ft/s	2.29	m/s	
Vegetated Shear Stress	NA	N/A	lbs/ft ²	N/A	Ра	
Vegetated Velocity	NA	N/A	ft/s	N/A	m/s	
Manning's N (Value Represents a Range)			0.02	29		

*Large-Scale Results obtained by 3rd 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.