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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.

	100	% Straw							
Netting:	1	Гуре				Net (Color		
Top:	Accelerated Lightweigh	nt Photodegrada	able Polypropylene			Clear - 1	l% UVD		
Middle:	None								
Bottom:	Accelerated Lightweigh	nt Photodegrada	able Polypropylene						
Net Opening:	pening: Top			Middle			Bottom		
	0.5	" x 0.5"				0.5" >	(0.5"		
Thread:		Туре		Co	lor				
	Degradab	ole Thread		Wł	nite				
Roll Sizes:	Sta	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 yd²	83.6 m ²	100	yd²	83.6 m ²	200 yd²	167.2 m ²		
#/Pallet:	25			9		2	25		
*Weight at time	of manufacturing.								

Property	Test Method	Typical			
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	169 lb/ft	2.47 kN/m		
Elongation-MD	ASTM D6818	28 %			
Tensile Strength-TD	ASTM D6818	107 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/cm ³			
Water Absorption	ASTM D1117	368 %			

^{*}May differ depending upon raw material variations

lope Performance De	esign 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)	0.014	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

Test Method	Parameters	Results	
	50mm (2in) / hr-30 min	SLR**=7.89 SLR**=8.83	
ECTC Method 2 Rainfall	100mm (4in) / hr-30 min		
	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 To	p soil; Fescue; 21 day incub	ation 542 %	

^{**}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

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Channel Performance D					
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 Repres	ents a Range)		0.02	29	

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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.

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