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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.

Matrix:		1		2			
	100%	Straw	N	I/A			
Netting:	Ту	ре			Net Co	lor	
Top: Acce	elerated Lightweight	Photodegrad	ble Polypropylene		Clear - 1%	UVD	
Middle: Non	e						
Bottom: Acce	elerated Lightweight	Photodegrad	ble Polypropylene				
Net Opening:	Тор			ddle		Bottom	
	0.5"	x 0.5"	N	I/A	0.5" x 0	.5"	
Thread:	Ty	ype	Co	olor			
	Degradable	Thread	W	hite			
Roll Sizes:	Star	ndard	"A"	Size	Mega	a	
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 yd ² 1	67.2 m ²	
#/Pallet:	2	25		9	25		

^{*}Weight at time of manufacturing.

*:		
Test Method	Ту	pical
ASTM D6475	8.50 oz/yd ²	288.2 g/m2
ASTM D6525	0.32 in	8.13 mm
ASTM D6818	169 lb/ft	2.47 kN/m
ASTM D6818	28 %	
ASTM D6818	107 lb/ft	1.56 kN/m
ASTM D6818	29.4 %	
ASTM D6567	19 %	
ASTM D792	N/A g/cm ³	
ASTM D1117	368 %	
	ASTM D6475 ASTM D6525 ASTM D6818 ASTM D6818 ASTM D6818 ASTM D6818 ASTM D6818 ASTM D6567 ASTM D792	Test Method Ty ASTM D6475 8.50 oz/yd² ASTM D6525 0.32 in ASTM D6818 169 lb/ft ASTM D6818 28 % ASTM D6818 107 lb/ft ASTM D6818 29.4 % ASTM D6567 19 % ASTM D792 N/A g/cm³

^{*}May differ depending upon raw material variations

ope 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

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 To	p soil; Fescue; 21 day incub	ation 542 %

^{*}Bench scale tests should not be used for design purposes.

^{***}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

Test Method	Value			
ASTM D 6460	2.05	lbs/ft ²	98.15	Pa
ASTM D 6460	7.5	ft/s	2.29	m/s
NA	N/A	lbs/ft²	N/A	Pa
NA	N/A	ft/s	N/A	m/s
	ASTM D 6460 ASTM D 6460 NA	Test Method ASTM D 6460 2.05 ASTM D 6460 7.5 NA N/A	Test Method Valu ASTM D 6460 2.05 lbs/ft² ASTM D 6460 7.5 ft/s NA N/A lbs/ft²	Test Method Value ASTM D 6460 2.05 lbs/ft² 98.15 ASTM D 6460 7.5 ft/s 2.29 NA N/A lbs/ft² N/A

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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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^{**}Soil Loss Ratio=Soil Loss Bare Soil/Soil Loss with RECP=1/C-Factor