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Material and Performance Specification

ECS-1D™ Temporary Single Net Straw Rolled Erosion Control Product

Description:

The ECS-10™ is made with uniformly distributed 100% agricultural straw and one polypropylene net 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-1D™ has functional longevity of approximately 45 to 90 days, but will vary depending on soil and climatic conditions, and is suitable for slopes 3:1 or less. The ECS-1D™ meets Type 1.C 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 Color
	Top: Accelerated Lightweight Photodegradable Polypro	ppylene	Clear - 1% UVD

Middle: None Bottom: None

Net Opening:	Тор	Middle	Bottom
	0.5" x 0.5"		
Thread:	Туре	Color	
	Degradable Thre	White	
Roll Sizes:	Standard	"A" Size	Mega
Width:	8 ft 2.4	4 ft 1.2 r	m 16 ft 4.9 m
Length:	112.5 ft 34.3	225 ft 68.6 r	m 112.5 ft 34.3 m
Weight*:	50 lbs 22.7	50 lbs 22.7 k	kg 100 lbs 45.4 kg
Area:	100 yd² 83.6	² 100 yd ² 83.6 r	m 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	8.00 oz/yd²	271.2 g/m2		
Thickness	ASTM D6525	0.30 in	7.62 mm		
Tensile Strength-MD	ASTM D6818	121 lb/ft	1.77 kN/m		
Elongation-MD	ASTM D6818	30 %			
Tensile Strength-TD	ASTM D6818	79 lb/ft	1.15 kN/m		
Elongation-TD	ASTM D6818	35.0 %			
Light Penetration	ASTM D6567	22 %			
Density / Specific Gravity	ASTM D792	N/A g/cm ³			
Water Absorption	ASTM D1117	458 %			

^{*}May differ depending upon raw material variations

Slope Performance De	esign Values*:			
Property	Test Me	thod	Value	
C-Factors	ASTM D6459		0.02	
Slope Length (L)	≤ 3:1	3:1-2:1	≥ 2:1	
< 50 ft (15 m)	0.024	N/A	N/A	
50 ft – 100 ft	0.105	N/A	N/A	
>100 ft (30 m)	0.185	N/A	N/A	

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

Parameters	Results
50mm (2in) / hr-30 min	SLR**=6.29
100mm (4in) / hr-30 min	SLR**=5.80
150mm (6in) / hr-30 min	SLR**=5.37
Shear at .50 in soil loss	1.10 lb/ft ²
p soil; Fescue; 21 day incub	ation 517 %
	50mm (2in) / hr-30 min 100mm (4in) / hr-30 min 150mm (6in) / hr-30 min Shear at .50 in soil loss

^{**}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	Value		ıe	
Unvegetated Shear Stress	ASTM D 6460	1.50	lbs/ft ²	71.82	Pa
Unvegetated Velocity	ASTM D 6460	6.8	ft/s	2.07	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 Represents a Range)			0.02	25	

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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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