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Material and Performance Specification

ECSC-2™ Double Net Straw/Coconut Rolled Erosion Control Product

Description:

The ECSC-2™ is made with uniformly distributed 70% agricultural straw, 30% coconut fiber 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 ECSC-2™ has functional longevity of approximately 24 months, but will vary depending on soil and climatic conditions, and is suitable for slopes 2:1 to 1:1 and low to medium flow channels. The ECSC-2™ meets Type 3.B specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17.

IVIALITY.		<u> </u>	
	70% Straw	30% Coconut	
Netting:	Туре		Net Color
Top: Light	tweight Photodegradable Polypropylene		Green
Middle: None	e		
Bottom: Med	lium weight UV Stabilized Polypropylene		
Net Opening:	Тор	Middle	Bottom
	0.5" x 0.5"	N/A	0.75" x 0.75"
Thread:	Туре	Color	
	Degradable Thread	White	
Roll Sizes:	Standard	"A" Size	Mega
Width:	8 ft 2.4 m	4.00 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*:	57 lbs 25.9 kg	57 lbs 25.9 kg	114 lbs 51.7 kg
Area:	100 yd² 83.6 m²	100 yd² 83.6 m²	200 yd² 167.2 m²
#/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	178.00	lb/ft	2.60 kN/m	
Elongation-MD	ASTM D6818	31	%		
Tensile Strength-TD	ASTM D6818	148.00	lb/ft	2.16 kN/m	
Elongation-TD	ASTM D6818	22.4	%		
Light Penetration	ASTM D6567	13	%		
Density / Specific Gravity	ASTM D792	N/A	g/cm³		
Water Absorption	ASTM D1117	436	%		
*May differ depending upon raw material variations					

lope Performance Design Values*:				
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)	0.015	0.020	0.065	
50 ft – 100 ft	0.020	0.035	0.090	
>100 ft (30 m)	0.025	0.050	0.110	

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

Test Method	Parameters	Results
	50mm (2in) / hr-30 min	SLR**=8.52
ECTC Method 2 Rainfall	100mm (4in) / hr-30 min	SLR**=11.01
	150mm (6in) / hr-30 min	SLR**=14.28
ECTC Method 3 Shear Resistance	e Shear at .50 in soil loss	2.16 lb/ft ²
ECTC Method 4 Germination T	op soil; Fescue; 21 day incub	ation 503 %
*Bench scale tests should not be	e 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	Value			
Unvegetated Shear Stress	ASTM D 6460	2.25	lbs/ft ²	107.73	Pa
Unvegetated Velocity	ASTM D 6460	8.0	ft/s	2.44	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	ents a Range)		0.02	29	

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