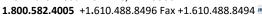


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Material and Performance Specification

ECS-2® Double Net Straw Rolled Erosion Control Product

Description:

Matrix:

The ECS-2® 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-2® has functional longevity of approximately 12 months, but will vary depending on soil and climatic conditions, and is suitable for slopes 2:1 or less and low to medium flow channels. The ECS-2® meets Type 2.D specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17.

	1009	% Straw					
Netting:	Туре				Net Color		
Top: Ligh	tweight Photodegra	adable Polypropyle	ne		Green		
Middle: Non	ie						
Bottom: Ligh	tweight Photodegra	adable Polypropyle	ne				
Net Opening:	ng: Top		I	Viiddle	Bottom		
	0.5'	" x 0.5"			0.5" x 0.5"		
Thread:	Ţ	Гуре		Color			
	Degradab	le Thread		White			
Roll Sizes:	Sta	ındard	"i	A" Size	Mega		
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 lb	s 24.0 kg	106 lbs 48.1 kg		
Area:	100 yd²	83.6 m ²	100 y	d² 83.6 m²	200 yd² 167.2 m²		
#/Pallet:		25		9	25		

^{*}Weight at time of manufacturing.

Property	Test Method		Typical			
Mass/Unit Area	ASTM D6475	8.50 o	z/yd²	288.2	g/m2	
Thickness	ASTM D6525	0.32 in		8.13	mm	
Tensile Strength-MD	ASTM D6818	150 lb	/ft	2.19	kN/m	
Elongation-MD	ASTM D6818	28 %	1			
Tensile Strength-TD	ASTM D6818	80 lb	/ft	1.17	kN/m	
Elongation-TD	ASTM D6818	29.4 %	1			
Light Penetration	ASTM D6567	19 %	1			
Density / Specific Gravity	ASTM D792	N/A g	/cm³			
Water Absorption	ASTM D1117	390 %)			

^{*}May differ depending upon raw material variations

Slope Performance De	esign Values*:			
Property	Test Me	Value		
C-Factors	ASTM D	0.01		
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**=5.84	
ECTC Method 2 Rainfall	100mm (4in) / hr-30 min	SLR**=6.87	
	150mm (6in) / hr-30 min	SLR**=8.09	
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	1.61 lb/ft ²	
ECTC Method 4 Germination To	p soil; Fescue; 21 day incub	ation 455 %	
*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	Value		ıe		
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/ft²	N/A	Pa	
Vegetated Velocity	NA	N/A	ft/s	N/A	m/s	
Manning's N (Value Represents a Range) 0.029						

^{*}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

Revised 1/11/2016