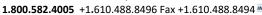


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Material and Performance Specification

ECS-1[™] Single Net Straw Rolled Erosion Control Product

Description:

The ECS-1™ 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-1[™] has functional longevity of approximately 12 months, but will vary depending on soil and climatic conditions, and is suitable for slopes 3:1 or less and low flow channels. The ECS-1[™] meets Type 2.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	N/A	
Netting:	Type		Net Color
Тор	: Lightweight Photodegradable Polypropylene		Green
Middle	: None		
Bottom	: None		

Bottonn mon	-			
Net Opening: Top		Middle	Bottom	
	0.5" x 0.5"	N/A	N/A	
Thread:	Туре	Color		
	Degradable Thread	White		
Roll Sizes:	Standard	"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*:	50 lbs 22.7 kg	50 lbs 22.7 kg	100 lbs 45.4 kg	
Area:	100 yd ² 83.6 m ²	100 yd ² 83.6 m ²	200 yd² 167.2 m²	
#/Pallet:	25	9	25	

^{*}Weight at time of manufacturing.

Property	Test Method	Typical	
Mass/Unit Area	ASTM D6475	8.00 oz/yd ²	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	385 %	

^{*}May differ depending upon raw material variations

lope Performance De	esign Values*:			
Property	Test Method		Value	
C-Factors	ASTM D	ASTM D6459		
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

Test Method	Parameters	Results
	50mm (2in) / hr-30 min	SLR**=5.63
ECTC Method 2 Rainfall	100mm (4in) / hr-30 min	SLR**=5.59
	150mm (6in) / hr-30 min	SLR**=5.58
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	1.39 lb/ft ²
ECTC Method 4 Germination To	p soil; Fescue; 21 day incub	ation 484 %

^{**}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	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/ft²	N/A	Pa
Vegetated Velocity	NA	N/A	ft/s	N/A	m/s
Manning's N (Value Represents a Range)			0.02	25	

^{*}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 1/1/20177