

US CONSTRUCTION FABRICS LLC

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Wholesale Distribution

CONSTRUCTION FABRICS, LINERS, & ENVIRONMENTAL PRODUCTS

ECS-1™ Single Net Straw Rolled Erosion Control Product

Description:

Matrix:

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.

	100% Straw		
Netting:	Туре		Net Color
Top: Light	weight Photodegradable Polypropylene		Green
Middle: None			
Bottom: None	!		
Net Opening:	Тор	Middle	Bottom
	0.5" x 0.5"		
Thread:	Туре	Color	
	Degradable Thread	White	
Roll Sizes:	Standard	"A" Size	Mega
Width:	7.5 ft 2.3 m	3.75 ft 1.1 m	15 ft 4.6 m
Length:	120 ft 36.6 m	240 ft 73.2 m	120 ft 36.6 m
Weight <u>+</u> 10%:	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 yd ² 167.2 m ²
#/Pallet:	20	9	16

Property	Test Method	1	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 %			
Water Absorption	ASTM D1117	385 %			

^{*}May differ depending upon raw material variations

Slope Performance Design 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	
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^{*}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 %
*Bench scale tests should not be u	used for design purposes.	
**Soil Loss Ratio=Soil Loss Bare So	oil/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

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/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	25	











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Laboratory