

Carthage Mills Product Data

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

The ECSC-2 is an erosion control blanket 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 climate 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.

Materials: Netting - Top / Bottom

Med wt UV Sta. PP / Lt wt Photodegradable PP 0.50" x 0.50" Opening / 0.75" x 0.75" Opening

Color: Green

Roll Sizes: Standard

> Width: 8.0 ft (2.4 m) Length: 112.5 ft (34.3 m) Weight +10%: 57.0 lbs (25.9 kg)

100 yd² (83.6 m²) Area: #/Pallet: 25

Matrix

70% Straw 30% Coconut

Thread

Degradable Thread Color: White

"A" Size Me	ega
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4.0 ft 1.2 m 16.0 ft (4.9 m) 225 ft 68.6 m 112.5 ft (34.3 m) 57 lbs 25.9 kg 114.0 lbs (51.7 kg) 200 yd² (167.2 m²) 100 ys² 83.6 m²

25

Index Value Properties*:

Property	Test Method	Typic	al
Mass/Unit Area	ASTM D6475	8.00	oz/yd² 271.2 g/m2
Thickness	ASTM D6525	.30	in (7.62 mm)
Tensile Strength-MD	ASTM D6818	178	lb/ft (2.60 kN/m)
Elongation-MD	ASTM D6818	31	%
Tensile Strength-TD	ASTM D6818	148	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

SLOPE Performance Design Values*:

Prope	rty	Test Method		Value
C-Fact	ors	ASTM D6459		0.02
	Slope Length (L)	≤ 3:1	3:1 – 2:1	≥ 2:1
	< 50 ft (15m)	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

Bench-Scale Testing* (NTPEP***):

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	Shear at .50 in soil loss	2.16 lb/ft ²
ECTC Method 4 Germination	Top soil; Fescue; 21 day incubation	503%
*Bench scale tests should not be used for design purposes.		

CHANNEL Performance Design Values*:

ASTM D 6460	2.25 lbs/ft² (107.73 Pa)
ASTM D 6460	8.0 ft/s (2.44 m/s)
NA	NA
NA	NA
Calculated Range	0.029
	ASTM D 6460 NA NA

*Large-Scale Results obtained by 3rd Party GAI Accredited Independent

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^{**}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 by AASHTO