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# ECS-2 Double Net Straw Rolled Erosion Control Product

The ECS-2 is an erosion control blanket 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 climate 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.

Materials: Netting – Top and Bottom

Lightweight Photodegradable Polypropylene

0.50" x 0.50" Opening

Color: Green

Matrix Thread

100% Straw Degradable Thread

Color: White

**Roll Sizes:** 

S	ta	nc	lard	
_	_	-		

25

4 ft 1.2 m

**Mega** 16.0 ft (4.9 m)

Width: Length: 8.0 ft (2.4 m) 112.5 ft (34.3 m) 53.0 lbs (24.0 kg)

225 ft 68.6 m 53 lbs 24.0 kg

"A" Size

112.5 ft (34.3 m) 106.0 lbs (48.1 kg)

Weight  $\pm 10\%$ : Area:

53.0 lbs (24.0 kg) 100 yd<sup>2</sup> (83.6 m<sup>2</sup>)

100 yd<sup>2</sup> 83.6 m<sup>2</sup>

200 yd<sup>2</sup> (167.2 m<sup>2</sup>)

#/Pallet:

C

250 ya (

#### Index Value Properties\*:

06475 06525 06818 06818	8.50 .32 150 28	oz/yd² 288.2 g/m2 in (8.13 mm) lb/ft (2.19 kN/m) % lb/ft (1.17 kN/m)
06818	150 28	lb/ft (2.19 kN/m) %
06818	28	%
06818	80	lh/ft (1 17 kN/m)
		1D/11 (1.17 KN/111)
06818	29.4	%
06567	19	%
792	N/A g/	′cm³
01117	390	%
	D1117	, 3.

## SLOPE Performance Design Values\*:

Prope	rty	Test Method		Value
C-Fac	tors	ASTM D6459		0.01
	Slope Length (L)	≤ 3:1	3:1 - 2:1	≥ 2:1
	< 50 ft (15m)	0.005	0.078	N/A
	50 ft – 100 ft	0.020	0.079	N/A
	> 100 ft (30 m)	0.038	0.800	N/A

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

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

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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/ft²	
ECTC Method 4 Germination	Top soil; Fescue; 21 day incubation	455%	
*Panch scale tasts shou	ld not be used for design nurr	20000	

\*Bench scale tests should not be used for design purposes.

#### **CHANNEL Performance Design Values\*:**

Property	Test Method	Value
Unvegetated Shear Stress	ASTM D 6460	2.05 lbs/ft <sup>2</sup> (98.15 Pa)
Unvegetated Velocity	ASTM D 6460	7.5 ft/s (2.29 m/s)
Vegetated Shear Stress	NA	NA
Vegetated Velocity	NA	NA
Manning's N	Calculated Range	0.029
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\*Large-Scale Results obtained by 3<sup>rd</sup> Party GAI Accredited Independent Laboratory

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<sup>\*\*</sup>Soil Loss Ratio=Soil Loss Bare Soil/Soil Loss with RECP=1/C-Factor

<sup>\*\*\*</sup> 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