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## ECS-2B™ Double Net Straw Biodegradable Rolled Erosion Control Product

## **Description:**

The ECS-2B™ is made with uniformly distributed 100% agricultural straw and two organic jute nets securely sewn together with biodegradable 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-2B™ has functional longevity of approximately 12 months, but will vary depending on soil and climatic conditions, and is suitable for slopes 3:1 to 2:1 and low to medium flow channels The ECS-2B™ 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.

Matrix:	1	2	
	100% Straw	N/A	
Netting:	Туре		Net Color
Top: Orga	anic Leno Weave Jute		Natural
Middle: Non	e		
Bottom: Orga	anic Leno Weave Jute		
Net Opening:	Тор	Middle	Bottom
	0.5" x 1.0"	N/A	0.5" x 1.0"
Thread:	Туре	Color	
	Biodegradable Thread	Natural	
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*:	59 lbs 26.8 kg	59 lbs 26.8 kg	118 lbs 53.5 kg
Area:	100 yd² 83.6 m²	100 yd² 83.6 m²	200 yd² 167.2 m²
#/Pallet:	20	6	20

<sup>\*</sup>Weight at time of manufacturing.

Index Value Properties*:					
Property	Test Method	Ту	Typical		
Mass/Unit Area	ASTM D6475	9.00 oz/yd²	305.1 g/m2		
Thickness	ASTM D6525	0.30 in	7.62 mm		
Tensile Strength-MD	ASTM D6818	190 lb/ft	2.77 kN/m		
Elongation-MD	ASTM D6818	16 %			
Tensile Strength-TD	ASTM D6818	130 lb/ft	1.90 kN/m		
Elongation-TD	<b>ASTM D6818</b>	16.8 %			
Light Penetration	ASTM D6567	20 %			
Density / Specific Gravity	ASTM D792	N/A g/cm <sup>3</sup>			
Water Absorption	ASTM D1117	510 %			

<sup>\*</sup>May differ depending upon raw material variations

sign Values*:			
Test Me	Test Method		
ASTM D6459		0.02	
≤ 3:1	3:1-2:1	≥ 2:1	
0.016	0.049	N/A	
0.043	0.062	N/A	
0.080	0.106	N/A	
	Test Me  ASTM De  ≤ 3:1  0.016  0.043	Test Method  ASTM D6459  ≤ 3:1 3:1-2:1  0.016 0.049  0.043 0.062	

<sup>\*</sup>Large-Scale Results obtained by 3<sup>rd</sup> Party GAI Accredited Independent Laboratory

Bench-Scale Testing* (NTPEP***):				
Test Method	Parameters	Results		
	50mm (2in) / hr-30 min	SLR**=10.70		
ECTC Method 2 Rainfall	100mm (4in) / hr-30 min	SLR**=12.27		
	150mm (6in) / hr-30 min	SLR**=13.98		
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	1.87 lb/ft <sup>2</sup>		
ECTC Method 4 Germination To	p soil; Fescue; 21 day incub	ation 370 %		
*Bench scale tests should not be	used for design purposes.			
**Soil Loss Ratio=Soil Loss Bare So	oil/Soil Loss with RECP=1/C-	Factor		
***The preceding test data excer of AASHTO, however, this does no				

Channel Performance Design Values*:					
Property	Test Method	Value			
Unvegetated Shear Stress	ASTM D 6460	1.75	lbs/ft <sup>2</sup>	83.79	Pa
Unvegetated Velocity	ASTM D 6460	6.0	ft/s	1.83	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					

the product, material or device by AASHTO

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