MATERIAL PROPERTY DATA SHEET



BioNet® SC150BN™

Extended Term • Double Net • Coconut/Straw Matrix • Biodegradable • Erosion Control Blanket

DESCRIPTION

SC150BN Extended Term Erosion Control Blanket consists of 30% coconut fibers and 70% weed free agricultural straw manufactured into a continuous matrix. The coconut/straw matrix is confined by a biodegradable, jute/scrim net on top and bottom, mechanically (stitch) bound on two-inch centers with a biodegradable, cotton thread. SC150BN is intended for slope and channel erosion control applications requiring up to twenty-four months of functional longevity. The material is fully degradable. The net, thread, and the fiber matrix is biodegradable. Actual field longevity is dependent on soil and climatic conditions.



Each roll of SC150 is made in the USA and manufactured under Western Green's Quality Assurance Program to ensure a continuous distribution of fibers and consistent thickness.

Material Content				
Matrix	Straw/Cocor	nut		
Netting	Top & Bottom Net : Jute Scrim, Biodegradable, Leno Weave Double Net			
Thread	Biodegradable Cotton or Rayon			
	Sta	andard Roll S	Sizes	
Width	8 ft	(2.4 m)	16 ft	(4.9 m)
Length	112 ft	(34.1 m)	563 ft	(171.0 m)
Weight ± 10%	53 lb	(24.1 kg)	530 lb	(241.0 kg)
Area Material availa	100 sy	(83.6 m²) n roll sizes	1000 SY	(836.0 m ²)

	Approvals & Classification
Classification	FHWA: Type 3.B / ECTC: Type 3.B
TTI Approvals	N/A
NTPEP Number	ECP-2020-01-019

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in the USA

ness of these values for any particular application or interpretation. While testing methods are provided for reference, values shown may be derived from interpolation or adjustment to be representative of intended use. For further information, please feel free to contact Western Green.
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Index Property	Test Method	Ту	pical
Thickness	ASTM D6525	0.30 in.	(8 mm)
Mass/Unit Area	ASTM D6566	8.5 oz/sy	(290 g/sm)
Tensile Strength – MD	ASTM D6818	210 lbs/ft	(3.1 kN/m)
Tensile Strength – TD	ASTM D6818	190 lbs/ft	(2.8 kN/m)
Elongation - MD	ASTM D6818		15%
Elongation – TD	ASTM D6818		15%
Density/Specific Gravity	D792		N/A
Light Penetration	ASTM D6567	12%	
Biomass Improvement	ASTM D7322	500%	
Water Absorption	ASTM D1117	350%	

Design Parameters				
Property	Unvegetated	Vegetated ³		
RUSLE C Factor ²	0.03	N/A		
Slope Maximum Gradient ¹	2H:1V	N/A		
Permissible Shear Stress ²	2.1 psf (100 Pa)	N/A		
Permissible Velocity ²	8.0 fps (2.4 m/s)	N/A		
Manning's n Roughness (HEC-15)				
τ_{lower}	$ au_{mid}$	τ_{upper}		
0.045	0.036	0.031		

- 1 Maximum Gradient a recomendation for typical insllations.
- 2 Hydraulic thresholds compliant with ASTM D6459/D6460 but generalized for typical applications
- 3 Vegetated values dependent on established stand of vegetation

Scan for additional and updated product information, or click here.



MATERIAL PROPERTY DATA SHEET

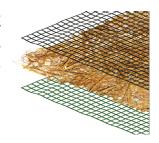


EroNet™ SC150®

Extended Term • Double Net • Coconut/Straw Matrix • Erosion Control Blanket

DESCRIPTION

The Coconut/Straw SC150 extended term Erosion Control Blanket consists of 30% coconut fibers and 70% weed free agricultural straw manufactured into a continuous matrix. The coconut/straw matrix is confined by a photodegradable, synthetic net on top and bottom, mechanically (stitch) bound on two-inch centers. SC150 is intended for applications requiring up to twenty-four months of functional longevity. The material is fully degradable. The net and thread are photodegradable and the fiber matrix is biodegradable. Actual field longevity is dependent on soil and climatic conditions.



Each roll of SC150 is made in the USA and manufactured under Western Green's Quality Assurance Program to ensure a continuous distribution of fibers and consistent thickness.

	Material Content	
Matrix	Straw/ Coconut Blend	
Netting	Top Net: Medium weight, Synthetic, Regular Degradable Bottom Net: Lightweight, Synthetic Regular Degradable	Double Net (black)
Thread	Synthetic, Regular Degradable	

Standard Roll Sizes				
Width	8 ft	(2.4 m)	16 ft	(4.9 m)
Length	112 ft	(34.1 m)	563 ft	(171.0 m)
Weight ± 10%	53 lb	(24.1 kg)	530 lb	(241.0 kg)
Area	100 sy	(83.6 m ²)	1000 SY	(836.0 m ²)

Material available in custom roll sizes

	Approvals & Classification
Classification	FHWA: Type 3.B / ECTC: Type 3.B
TTI Approvals	N/A
NTPEP Number	ECP-2019-03-013

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Index Property	Test Method	Ту	pical
Thickness	ASTM D6525	0.30 in.	(8 mm)
Mass/Unit Area	ASTM D6566	8.5 oz/sy	(290 g/sm)
Tensile Strength – MD	ASTM D6818	150 lbs/ft	(2.2 kN/m)
Tensile Strength – TD	ASTM D6818	130 lbs/ft	(1.9 kN/m)
Elongation - MD	ASTM D6818	;	25%
Elongation – TD	ASTM D6818	25%	
Density/Specific Gravity	D792		N/A
Light Penetration	ASTM D6567	12%	
Biomass Improvement	ASTM D7322	500%	
Water Absorption	ASTM D1117	350%	

Design Parameters			
Property	Unvegetated	Vegetated ³	
RUSLE C Factor ²	0.03	N/A	
Slope Maximum Gradient ¹	2H:1V	N/A	
Permissible Shear Stress ²	2.0 psf (95 Pa)	N/A	
Permissible Velocity ²	8.0 fps (2.4 m/s)	N/A	
Manning's n Roughness (HEC-15)			
τ	τ.	τ	

1 Maximum Gradient a recomendation for typical insllations.

0.045

0.036

Rev. 4.2023 Scan for additional and updated product information, or click here.



0.031

² Hydraulic thresholds compliant with ASTM D6459/D6460 but generalized for typical applications.

³ Vegetated values dependent on established stand of vegetation