

MATERIAL PROPERTY DATA SHEET

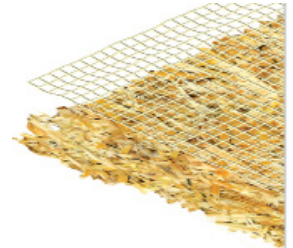


S75BN™

Equivalent and Replaces: SR-1AN • ETRS-1-BN • S1000BD
Short Term • Single Net • Straw Matrix •
Biodegradable • Erosion Control Blanket

DESCRIPTION

S75BN temporary Erosion Control Blanket is composed of a 100% weed free agricultural straw matrix mechanically (stitch) bonded on two-inch centers to a single biodegradable, jute/scrim net. Thread utilized in the construction of the blanket is biodegradable cotton. S75BN blanket is recommended applications requiring erosion protection for a period up to twelve months. 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 S75BN is made in the USA and manufactured under North American Green's Quality Assurance Program to ensure a continuous distribution of fibers and consistent thickness.

S75BN is compliant and/or exempt with the Build America, Buy America Act, §§ 70901–70927 of the Investment and Jobs Act (Pub L. 117-58), 2 CFR Part 184 – Buy America Preferences for Infrastructure Projects and OMB Memorandum M-22-11.

Material Content	
Matrix	Straw

Netting Jute Scrim, Biodegradable, Leno weave Single Net

Thread	Biodegradable Cotton or Rayon
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Standard Roll Sizes				
Width	8 ft	(2.4 m)	16 ft	(4.9 m)
Length	112 ft	(34.1 m)	112 ft	(34.1 m)
Weight ± 10%	50 lb	(22.7 kg)	100 lb	(45.4 kg)
Area	100 sy	(83.6 m ²)	200 SY	(167 m ²)
Part Number	S75BN-8X112.5		S75BN-16X112.5	

Material available in custom roll sizes

Approvals & Classification	
Classification	FHWA: Type 2.C / ECTC: Type 2.C
TTI Approvals	Class 1 Type A, C
NTPEP Number	ECP-2018-04-002

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Index Property	Test Method	Typical	
Thickness	ASTM D6525	0.28 in.	(7 mm)
Mass/Unit Area	ASTM D6566	8.0 oz/sy	(275 g/sm)
Tensile Strength – MD	ASTM D6818	130 lbs/ft	(1.9 kN/m)
Tensile Strength – TD	ASTM D6818	90 lbs/ft	(1.3 kN/m)
Elongation - MD	ASTM D6818	15%	
Elongation – TD	ASTM D6818	15%	
Density/Specific Gravity	D792	N/A	
Light Penetration	ASTM D6567	15%	
Biomass Improvement	ASTM D7322	375%	
Water Absorption	ASTM D1117	400%	

Design Parameters		
Property	Unvegetated	Vegetated ³
RUSLE C Factor ²	0.02	N/A
Slope Maximum Gradient ¹	2.5H:1V	N/A
Permissible Shear Stress ²	1.6 psf (75 Pa)	N/A
Permissible Velocity ²	5.0 fps (1.5 m/s)	N/A
τ_{veg} / τ_{TRM} (HEC-15)	N/A	0.65

Manning's n Roughness (HEC-15)		
τ_{lower}	τ_{mid}	τ_{upper}
0.040	0.030	0.030

1 Maximum Gradient a recommendation 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