

MATERIAL PROPERTY DATA SHEET



S150®

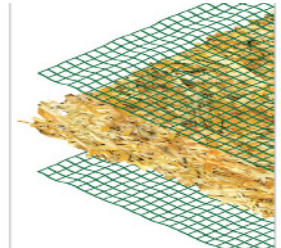
Equivalent and Replaces: SS-2 • ETRS-2 • S2000
Short Term • Double Net • Straw Matrix •
Erosion Control Blanket

DESCRIPTION

S150 temporary Erosion Control Blanket is composed of a 100% weed free agricultural straw matrix mechanically (stitch) bound on two-inch centers between two photodegradable, synthetic nets. S150 is intended for use in applications requiring erosion protection for a period up to twelve months. 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 S150 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.

S150 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	Top and Bottom Net: Lightweight, Synthetic, Regular Degradable	Double Net (Green)
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Thread	Synthetic, Regular Degradable
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Standard Roll Sizes				
Width	8 ft (2.4 m)	8 ft (2.4 m)	16 ft (4.9 m)	16 ft (4.9 m)
Length	112 ft (34.1 m)	563 ft (171 m)	112 ft (34.1 m)	563 ft (171 m)
Weight ± 10%	50 lb (22.7 kg)	250 lb (113.5 kg)	100 lb (45.4 kg)	500 lb (227 kg)
Area	100 sy (83.6 m ²)	500 sy (418 m ²)	200 SY (167 m ²)	1000 SY (836 m ²)
Part Number	S150-8X112.5-25	S150-8X562.5	S150-16X112.5	S150-16X562.5

Material available in custom roll sizes

Approvals & Classification	
Classification	FHWA: Type 2.D / ECTC: Type 2.D
TTI Approvals	Class 1 Type A,B, C, D Class 2 Type E,F
NTPEP Number	ECP-2020-01-16

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Index Property	Test Method	Typical	
Thickness	ASTM D6525	0.30 in.	(8 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	100 lbs/ft	(1.5 kN/m)
Elongation - MD	ASTM D6818	25%	
Elongation – TD	ASTM D6818	25%	
Density/Specific Gravity	D792	N/A	
Light Penetration	ASTM D6567	15%	
Biomass Improvement	ASTM D7322	450%	
Water Absorption	ASTM D1117	400%	

Design Parameters		
Property	Unvegetated	Vegetated ³
RUSLE C Factor ²	0.04	N/A
Slope Maximum Gradient ¹	2H:1V	N/A
Permissible Shear Stress ²	1.8 psf (85 Pa)	N/A
Permissible Velocity ²	6.0 fps (1.8 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}
0.050	0.036	0.032

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