

MATERIAL PROPERTY DATA SHEET



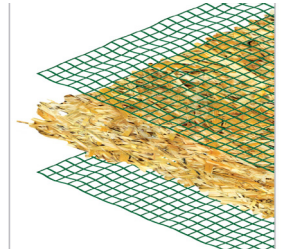
S150[®]

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.



Material Content

Matrix	Straw	
Netting	Top and Bottom Net: Lightweight, Synthetic, Regular Degradable	Double Net (Green)
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%	50 lb (22.7 kg)	500 lb (227.0 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 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 installations.

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

3 Vegetated values dependent on established stand of vegetation