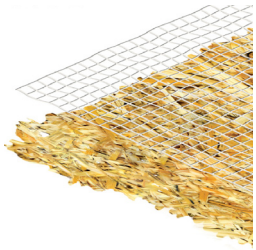
NORTH AMERICAN GREEN®

DS75™

Ultra-Short Term • Single Net • Straw Matrix • Erosion Control Blanket

DESCRIPTION

DS75 temporary Erosion Control Blanket (ECB) is composed of 100% weed free agricultural straw matrix mechanically (stitch) bonded on two-inch centers to a single photodegradable, synthetic net. The netting of DS75 ECB is treated to accelerate the degradation process. Recommended for applications requiring erosion protection for a period forty-five to ninety days. 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 DS75 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	Lightweight, Synthetic, Rapid Degradable	Single Net (White/Clear)
Thread	Synthetic, Rapid 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 1.C / ECTC: Type 1.C
TTI Approvals	N/A
NTPEP Number	N/A

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	110 lbs/ft	(1.6 kN/m)
Tensile Strength – TD	ASTM D6818	60 lbs/ft	(0.9 kN/m)
Elongation - MD	ASTM D6818	30%	
Elongation – TD	ASTM D6818	30%	
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 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