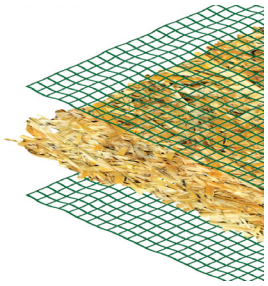
MATERIAL PROPERTY DATA SHEET

EXCEL SS-2™

Short Term • Double Net • Straw Matrix • Erosion Control Blanket

DESCRIPTION

Excel SS-2 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. Excel SS-2 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 Excel SS-2 is made in the USA and manufactured under Western Green's Quality Assurance Program to ensure a continuous distribution of fibers and consistent thickness.

SS-2 has replaced ECS-2, formerly provided by East Coast Erosion. SS-2 meets or exceeds the ECS-2 and can be used as a replacement with no limitations.

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: Typ 2.D
TTI Approvals	Class 1 Type A,B,C,D Class 2 Type E,F
NTPEP Number	ECP-2018-04-010

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

Manning's n Roughness (HEC-15)		
τ_{lower}	τ_{mid}	τ_{upper}
0.050	0.036	0.032

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

Rev. 4.2023

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

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