MATERIAL PROPERTY DATA SHEET

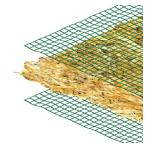


EXCEL SS-2™

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			

	Sta	ndard Roll Siz	es	
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		

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WESTERN
EXCELSIOR

Index Property	Test Method	Ту	pical
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)				
$ au_{lower}$	τ_{mid}	$ au_{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.



MATERIAL PROPERTY DATA SHEET



EXCEL SS-2 All Natural™

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

DESCRIPTION

Excel SS-2 All Natural (SS-2AN) temporary Erosion Control Blanket is composed of 100% weed free agricultural straw matrix mechanically (stitch) bonded on two-inch centers between two biodegradable, jute/scrim nets. Thread utilized in the construction of the blanket is biodegradable cotton. The SS-2AN blanket is recommended for use in 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 Excel SS-2AN 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-2AN has replaced ECS-2B, formerly provided by East Coast Erosion. SS-2AN meets or exceeds the ECS-2B and can be used as a replacement with no limitations.

	Material Content	
Matrix	Straw	
Netting	Top & Bottom Net: Jute Scrim, Biodegradable, Leno Weave	Double Net
Thread	Biodegradable Cotton or Rayon	
	Standard Roll Sizes	

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	N/A
NTPEP Number	ECP-2020-01-007

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Index Property	Test Method	Ту	pical
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	190 lbs/ft	(2.8 kN/m)
Tensile Strength – TD	ASTM D6818	150 lbs/ft	(2.2 kN/m)
Elongation - MD	ASTM D6818	15%	
Elongation – TD	ASTM D6818	1	15%
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	1.9 psf (90 Pa)	N/A		
Permissible Velocity ²	6.0 fps (1.8 m/s)	N/A		
Manning's n Roughness (HEC-15)				
T _{lower}	τ _{mid}	τ _{upper}		

- 1 Maximum Gradient a recomendation for typical insllations.
- 2 Hydraulic thresholds compliant with ASTM D6459/D6460 but generalized for typical applications.

0.034

3 Vegetated values dependent on established stand of vegetation

Rev. 4.2023

0.048

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0.031

MATERIAL PROPERTY DATA SHEET

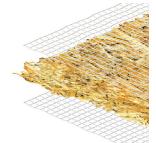


EXCEL SS-2 Rapid Go™

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

DESCRIPTION

Excel SS-2 Rapid Go (SS-2RG) temporary Erosion Control Blanket (ECB) is composed 100% weed free agricultural straw mechanically (stitch) bonded on two-inch centers between two photodegradable, synthetic nets. The netting of the SS-2RG ECB is treated to accelerate the degradation process. Excel SS-2RG is 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 Excel SS-2RG is made in the USA and manufactured under Western Green's Quality Assurance Program to ensure a continuous distribution of fibers and consistent thicknesss.

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

Material Content				
Matrix	Straw			
Netting	Top & Bottom Net: Lightweight, Synthetic, Rapid Degradable	Double 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.D / ECTC: Type 1.D			
TTI Approvals	N/A			
NTPEP Number	N/A			

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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	2	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}	T _{mid}	Tupper			

- 1 Maximum Gradient a recomendation for typical insllations.
- ${\small 2~Hydraulic~thresholds~compliant~with~ASTM~D6459/D6460~but~generalized~for~typical~applications.}\\$

0.036

3 Vegetated values dependent on established stand of vegetation

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0.050

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0.032