MATERIAL PROPERTY DATA SHEET



EXCEL SR-1 All Natural™

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

DESCRIPTION

Excel SR-1 All Natural (SR-1AN) temporary Erosion Control Blanket is composed of a 100% weed free agricultural straw matrix mechanically (stitch) bonded on two-inch centers to a single biodegradable, jute/scrim net. Thread utilized in the construction of the blanket is biodegradable cotton. Excel SR-1AN blanket is recommended 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 SR-1AN is made in the USA and manufactured under Western Green's Quality Assurance Program to ensure a continuous distribution of fibers and consistent thickness.

SR-1AN has replaced ECS-1B, formerly provided by East Coast Erosion. SR-1AN meets or exceeds the ECS-1B and can be used as a replacement with no limitations.

	IV	laterial Con	tent	
Matrix	Straw			
Netting	Jute Scrim, E	Biodegradable, L	eno Weave	iingle Net
Thread	Biodegradab	le Cotton or Ra	yon	
	Sta	andard 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 Material availe	100 sy	(83.6 m²)	1000 SY	(836.0 m ²)

	Approvals & Classification
Classification	FHWA: Type 2.C / ECTC: Type 2.C
TTI Approvals	Class 1 Type A, C
NTPEP Number	ECP-2019-03-011

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Index Property	Test Method	Ту	pical
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	125 lbs/ft	(1.8 kN/m)
Tensile Strength – TD	ASTM D6818	90 lbs/ft	(1.3 kN/m)
Elongation - MD	ASTM D6818	-	15%
Elongation – TD	ASTM D6818	:	15%
Density/Specific Gravity	D792		N/A
Light Penetration	ASTM D6567	-	15%
Biomass Improvement	ASTM D7322	3	75%
Water Absorption	ASTM D1117	4	00%

Design Parameters					
Property	Unvegetated	Vegetated ³			
RUSLE C Factor ²	0.02	N/A			
Slope Maximum Gradient ¹	3H: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			
Manning's n Roughness (HEC-15)					
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- 1 Maximum Gradient a recomendation for typical insllations.
- 2 Hydraulic thresholds compliant with ASTM D6459/D6460 but generalized for typical applications.

0.030

3 Vegetated values dependent on established stand of vegetation

Rev. 4.2023

Tlower

0.040

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



0.030