



EROSION CONTROL
TECHNOLOGY COUNCIL
EST. 1979



International Erosion Control Association
EMERALD MEMBER



ETRS-1 Erosion Control Blanket

ETRS-1 Single Net Straw

A blanket featuring 100% straw fill with a typical functional longevity of 12 months but will differ with soil and climate conditions. This product meets all FHWA FP-03 requirements for a Type 2.A and 2.C erosion control blanket.

Part Numbers	ETRS-1-100	ETRS-1-200	ETRS-1-500	ETRS-1-1000
Blanket Size	8 ft x 112.5 ft	16 ft x 112.5 ft	8 ft x 562.5 ft	16 ft x 562.5 ft
Rolls per Pallet	25	25	4	4
Rolls per Truck Load	600	300	96	48
Netting	Single Net - Green/Photodegradable/Polypropylene			
Opening Size	0.5 in x 0.5 in			
Stitching Thread	White/Photodegradable/Polypropylene			
Stitching Frequency	2 in			
Fill	100% Straw			
Packaging	Each Roll is Individually Stretched Wrapped with a Label			

INDEX TESTING	TEST METHOD	UNIT	ENGLISH
Mass per Unit Area	ASTM D 6475	oz / sq yd	8.95
Thickness	ASTM D 6525	mils	241
Tensile Strength	ASTM D 6818	lb/in	8.5 x 4.8
Ground Cover / Light Penetration	ASTM D 6567	%	90/ 10
Water Absorption	ASTM D 1117	% wt Change	516

BENCH-SCALE TESTING	TEST METHOD	Parameter	ENGLISH
Determination of Unvegetated RECP Ability to Protect Soil from Rain Splash and Associated Runoff Under Bench-Scale Conditions	ASTM D 7101	50 mm (2 in.) / hr for 30 min.	Soil Loss Ratio = 28.23
		100 mm (4 in.) / hr for 30 min.	Soil Loss Ratio = 32.71
		150 mm (6 in.) / hr for 30 min.	Soil Loss Ratio = 27.69
Determination of Unvegetated RECP Ability to Protect Soil from Hydraulically Induced Shear Stresses Under Bench-Scale Conditions	ASTM D 7207	Shear: 1.14 psf for 30 min.	Soil Loss = 116.4 g
		Shear: 1.94 psf for 30 min.	Soil Loss = 433.5 g
		Shear: 2.73 psf for 30 min.	Soil Loss = 640.7 g
Determination of Temporary Degradable RECP Performance in Encouraging Seed Germination and Plant Growth	ASTM D 7322	Soil loss curve intercept =	1.85 psf @ ½-in soil loss
		Topsoil; Fescue (Kentucky 31); 21-day incubation; 27±2° & approximately 45±5% RH	% of Control = 353% (increased biomass)

LARGE-SCALE TESTING	TEST METHOD	UNIT	ENGLISH
Slope Erosion	ASTM D 6459	C Factor	0.048
Channel Erosion	ASTM D 6460	lb/ft^2	2.05

Notes:

1. Soil Loss Ratio = Soil Loss Bare Soil / Soil Loss with RECP = 1 / C-Factor (Note: soil loss is based on regression analysis).
2. Permissible Velocity and Shear Stress have been obtained through large scale test programs featuring specific soil types, vegetation classes, flow conditions, anchor methods, and failure criteria. These conditions may not be relevant to every project nor can they be replicated by other manufacturers. Please contact your Erosion Tech rep for more information.
3. Design Performance Criteria for Vegetated Velocity and Shear Stress are estimated values given the typical industry results for RECP's manufactured to FHWA FP-03 Type 2.A and 2.C standards and with similar physical properties. The Designing Engineer is responsible for determining the suitability of this product on projects.

