



S31 UVD

Specification Sheet

The ErosionControlBlanket S31 UVD is an ultra short-term straw fiber erosion control blanket designed for use on mild slope and channel applications requiring erosion control for up to 3 months depending on moisture, light, and environmental conditions. The blanket is sewn together on 1.5 inch (38.1 mm) centers. The S31 UVD meets all requirements established in the FHWA FP-03 as a Type 1C erosion control blanket for use on slopes with gradients not exceeding 3:1 (h:v) and has been tested by the National Transportation Product Evaluation Program (NTPEP). The S31 UVD comes packaged in clear shrink-wrap with a red band and includes installation instructions.

Product Nomenclature & Properties

- S** = 100% agricultural straw fiber matrix
- 3** = straw fiber matrix applied at a rate of 0.5 lbs/yd² (270 g/m²)
- 1** = a single rapid photodegradable top net with a mesh size of 0.588 x 0.5 in (1.49 x 1.3 cm)
- UVD** = rapid photodegradable net and thread to ensure consistent functional longevity

Index & Bench Scale Testing

Test Description	Test Method	Test Results
Mass per Unit Area	ASTM D6475	8.33 oz/yd ²
Tensile Strength	ASTM D6818	8.9 lbs/in @ 24.5% MD 4.4 lbs/in @ 21.1% TD
Thickness	ASTM D6525	0.376 in
Light Penetration / Ground Cover	ASTM D6567	9.9% / 90.1%
Water Absorption	ASTM D 1117 & ECTCTASC 00197	490%
Unvegetated Bench-Scale Rain Splash and Runoff (not to be used as a design value)	ASTM D7101	Soil Loss Ratio* = 10.319 Soil Loss Ratio* = 10.14 Soil Loss Ratio* = 9.96
Unvegetated Bench-Scale Shear Stress (not to be used as design value)	ASTM D7207	1.14 lbs/ft ² @ ½ in. soil loss
Seed Germination and Plant Growth Under Bench-Scale Conditions	ASTM D7322	480% Improvement (increased biomass)

*Soil Loss Ratio = Soil Loss Bare Soil / Soil Loss with RECP = 1 / C-Factor (Note: Soil loss is based on regression analysis)

Design Values

- "C" factor = 0.03
- Maximum Permissible Shear Stress = 1.5 lbs/ft² (72 Pa)
- Maximum Permissible Velocity = 5 ft./sec. (1.52 m/s)
- Manning's "n" = 0.027

Standard Roll Details

Width	2.44m (8 ft)	4.88m (16 ft)
Standard Length	34.3m (112.5 ft)	34.3m (112.5 ft)
Area	83.61m ² (100 yd ²)	167.23m ² (200 yd ²)
Weight ±10%	24kg (52 lb)	48kg (104 lb)

Highway Roll Details

Width	2.44m (8 ft)	4.88m (16 ft)
Standard Length	137.2m (450 ft)	137.2m (450 ft)
Area	334.4m ² (400 yd ²)	668.8m ² (800 yd ²)
Weight ±10%	96kg (208 lb)	192kg (416 lb)