



Specification Sheet

S31

The S31 blanket from ErosionControlBlanket.com is manufactured from 100% agricultural straw stitched to one photodegradable polypropylene top net with a mesh size of 1.49 x 1.3 cm (0.588 x 0.5 in). The “S” and “3” represent straw applied at a minimum of 270 g/m² (0.5 lbs/yd²) and the “1” represents that the blanket is only netted on the topside. The functional longevity of the blanket is 3-12 months depending on moisture, light, and environmental conditions. The blanket is sewn together on 38.1 mm (1.5 in) centers, with photodegradable thread to ensure the same rate of degradation for the net and thread. Each roll of S31 is packaged in blue shrink-wrap with a blue band and includes installation instructions.

Index Test Results From Bench Scale Testing (TRI Environmental Labs or NTPEP)

Test Method – Description	Parameters	Test Result
ASTM D6475 – Mass per Unit Area	Index Test	5.64 oz/sq. yd.
ASTM D6818 – Tensile Strength Machine Direction (MD) Transverse/Cross Direction (TD)	Index Test Index Test	12.2 lbs/in @ 24.3 3.9 lbs/in @ 25.6
ASTM D6525 – Thickness	Index Test	0.320 in
ASTM D6567 – Light Penetration	Index Test	17.3%
ASTM D 1117 & ECTC-TASC 00197 – Water Absorption	Index Test	468%
ECTC Method 2 – Determination of Unvegetated RECP Ability to Protect Soil from Rain Splash and Associated Runoff Under Bench-Scale Conditions	25 mm (1 in.)/hr for 30 min. 75 mm (3 in.)/hr for 30 min. 125 mm (5 in.)/hr for 30 min.	Soil Loss Ratio* = 8.57 Soil Loss Ratio* = 10.89 Soil Loss Ratio* = 13.83
ECTC Method 3 – Determination of Unvegetated RECP Ability to Protect Soil from Hydraulically-Induced Shear Stresses Under Bench-Scale Conditions	Regression (power curve)	1.5 psf @ ½ in. soil loss (not to be used as a design value)
ECTC Draft Method 4 – Determination of Temporary Degradable RECP Performance in Encouraging Seed Germination and Plant Growth	Top soil; Fescue (Kentucky 31); 21 day incubation; 27±2° approximately 65% RH	% Improvement = 206% (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 = 72 Pa (1.5 lbs/ft²) (Erosion Control Blanket does not recommend the S31 for use in channel applications)
- Manning’s “n” = 0.027
- S31 meets all requirements established in the FHWA FP-03 as a Type 2C erosion control blanket for use on slopes with gradients not exceeding 3:1 (h:v)
- S31 has been tested by the National Transportation Product Evaluation Program (NTPEP)

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)

“Big Daddy” 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)

More information available upon request.