

# **S**31

## **Specification Sheet**

The ErosionControlBlanket S31 is a short-term straw fiber erosion control blanket designed for use on mild slope and channel applications requiring erosion control for up to 12 months depending on moisture, light, and environmental conditions. The blanket is sewn together on 1.5 inch (38.1 mm) centers. The 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) and has been tested by the National Transportation Product Evaluation Program (NTPEP). The S31 comes packaged in clear shrink-wrap with a yellow band and includes installation instructions.

## **Product Nomenclature & Properties**

- **S** = 100% agricultural straw fiber matrix
- 3 = straw fiber matrix applied at a rate of 0.43-0.5  $lbs/yd^2$  (198-270 g/m<sup>2</sup>)
  - = a single photodegradable top net with a mesh size of 0.588 x 0.5 in (1.49 x 1.3 cm)
    - = photodegradable net and thread to ensure consistent functional longevity

#### Index & Bench Scale Testing

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Test Method	Test Results
ASTM D6475	7-8 oz/yd <sup>2</sup>
ASTM D6818	12.2 lbs/in @ 24.3% MD 3.9 lbs/in @ 25.6% TD
ASTM D6525	0.351 in
ASTM D6567	11.7% / 88.3%
ASTM D 1117 & ECTCTASC 00197	502%
ASTM D7101	Soil Loss Ratio* = 8.57 Soil Loss Ratio* = 10.89 Soil Loss Ratio* = 13.83
ASTM D7207	1.5 lbs/ft <sup>2</sup> @ 1/2 in. soil loss
ASTM D7322	367% Improvement (increased biomass)
	ASTM D6475 ASTM D6818 ASTM D6525 ASTM D6567 ASTM D 1117 & ECTCTASC 00197 ASTM D7101 ASTM D7207

### **Design Values**

- "C" factor = 0.03
- Maximum Permissible Shear Stress = 1.5 lbs/ft<sup>2</sup> (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 <sup>2</sup> (100 yd <sup>2</sup> )	167.23m <sup>2</sup> (200 yd <sup>2</sup> )
	Weight ±10%	24kg (52 lb)	48kg (104 lb)
Highway Roll Details			
•	Width	2.44m (8 ft)	4.88m (16 ft)
	Standard Length	171.5m (562.5ft)	171.5m (562.5ft)
	Area	$418m^2$ (500 yd <sup>2</sup> )	836.1m <sup>2</sup> (1000 yd <sup>2</sup> )
	Weight ±10%	117.93kg (260 lb)	235.87kg (520 lb)
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