



## S32 BD

### Specification Sheet

The ErosionControlBlanket S32 BD is a short-term 100% biodegradable double net straw fiber erosion control blanket designed for use on moderate 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 S32 BD meets all requirements established in the FHWA FP-03 as a Type 2D erosion control blanket for use on slopes with gradients not exceeding 2:1 (h:v) and has been tested by the National Transportation Product Evaluation Program (NTPEP). The S32 BD comes packaged in clear shrink-wrap with a brown 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<sup>2</sup> (198-270 g/m<sup>2</sup>)
- 2** = top and bottom leno woven biodegradable nets with a mesh size of 0.5 x 1.0 in (1.3 x 2.54 cm)
- BD** = 100% biodegradable leno woven net, thread, and matrix to ensure consistent functional longevity

#### Index & Bench Scale Testing

Test Description	Test Method	Test Results
Mass per Unit Area	ASTM D6475	7-8 oz/yd <sup>2</sup>
Tensile Strength	ASTM D6818	21.7 lbs/in @ 14.5% MD 16.8 lbs/in @ 23.9% TD
Thickness	ASTM D6525	0.422 in
Light Penetration / Ground Cover	ASTM D6567	11.5% / 88.5%
Water Absorption	ASTM D 1117 & ECTCTASC 00197	416%
Unvegetated Bench-Scale Rain Splash and Runoff (not to be used as a design value)	ASTM D7101	Soil Loss Ratio* = 11.30 Soil Loss Ratio* = 11.79 Soil Loss Ratio* = 12.30
Unvegetated Large-Scale Channel Shear Stress	ASTM D6460	2.38 lbs/ft <sup>2</sup>
Seed Germination and Plant Growth Under Bench-Scale Conditions	ASTM D7322	677% 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 = 0.124
- Maximum Unvegetated Permissible Shear Stress = 2 lbs/ft<sup>2</sup> (95.7 Pa)
- Maximum Permissible Velocity = 6 ft./sec. (1.83 m/s)
- Manning's "n" = 0.03

#### 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> )	167.22m <sup>2</sup> (200 yd <sup>2</sup> )
Weight ± 10%	30.8 kg (68 lb)	61.6 kg (136 lb)

#### Highway Roll Details

Width	2.44m (8 ft)	4.88m (16 ft)
Standard Length	120m (393.75ft)	120m (393.75ft)
Area	292.6m <sup>2</sup> (350 yd <sup>2</sup> )	585.3m <sup>2</sup> (700 yd <sup>2</sup> )
Weight ± 10%	108kg (238 lb)	215.9kg (476 lb)

