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S31 BD

Specification Sheet

The ErosionControlBlanket S31 BD is a short-term 100% biodegradable 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 BD 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 BD comes packaged in clear shrink-wrap with an orange 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^2)
1 = a single biodegradable leno woven top net 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^2
Tensile Strength	ASTM D6818	11.7 lbs/in @ 12.1% MD 7.4 lbs/in @ 13.3% TD
Thickness	ASTM D6525	0.329 in
Light Penetration / Ground Cover	ASTM D6567	15.7% / 84.3%
Water Absorption	ASTM D 1117 & ECTCTASC 00197	417%
Unvegetated Bench-Scale Rain Splash and Runoff (not to be used as a design value)	ASTM D7101	Soil Loss Ratio* = 8.88 Soil Loss Ratio* = 9.02 Soil Loss Ratio* = 9.16
Unvegetated Bench-Scale Shear Stress (not to be used as design value)	ASTM D7207	1.30 lbs/ft^2 @ ½ in. soil loss
Seed Germination and Plant Growth Under Bench-Scale Conditions	ASTM D7322	436% 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/ft^2 (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)	167.22m^2 (200 yd^2)
Weight ± 10%	27.2 kg (60 lb)	54.4 kg (120 lb)

Highway Roll Details

Width	2.44m (8 ft)	4.88m (16 ft)
Standard Length	120m (393.75ft)	120m (393.75 ft)
Area	292.65m^2 (350yd^2)	585.3m^2 (700 yd^2)
Weight ± 10%	95.26kg (210 lb)	190.51kg (420 lb)

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S31

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^2)
1 = 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

Test Description	Test Method	Test Results
Mass per Unit Area	ASTM D6475	7-8 oz/yd^2
Tensile Strength	ASTM D6818	12.2 lbs/in @ 24.3% MD 3.9 lbs/in @ 25.6% TD
Thickness	ASTM D6525	0.351 in
Light Penetration / Ground Cover	ASTM D6567	11.7% / 88.3%
Water Absorption	ASTM D 1117 & ECTCTASC 00197	502%
Unvegetated Bench-Scale Rain Splash and Runoff (not to be used as a design value)	ASTM D7101	Soil Loss Ratio* = 8.57 Soil Loss Ratio* = 10.89 Soil Loss Ratio* = 13.83
Unvegetated Bench-Scale Shear Stress (not to be used as design value)	ASTM D7207	1.5 lbs/ft^2 @ ½ in. soil loss
Seed Germination and Plant Growth Under Bench-Scale Conditions	ASTM D7322	367% 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/ft^2 (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	171.5m (562.5ft)	171.5m (562.5ft)
Area	418m^2 (500 yd^2)	836.1m^2 (1000 yd^2)
Weight ±10%	117.93kg (260 lb)	235.87kg (520 lb)

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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 0.43-0.5 lbs/yd^2 (270 g/m^2)
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	7-8 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/ft^2 (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)

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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^2 (198-270 g/m^2)
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^2
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^2
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^2 (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^2 (100 yd^2)	167.22m^2 (200 yd^2)
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^2 (350 yd^2)	585.3m^2 (700 yd^2)
Weight ± 10%	108kg (238 lb)	215.9kg (476 lb)

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S32

Specification Sheet

The ErosionControlBlanket S32 is a short-term 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 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 comes packaged in clear shrink-wrap with a green 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^2)
2 = top and bottom photodegradable nets with a mesh size of 0.588 x 0.5 in (1.49 x 1.3 cm)
= photodegradable nets and thread 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^2
Tensile Strength	ASTM D6818	11.4 lbs/in @ 22.3% MD 10.1 lbs/in @ 20.3% TD
Thickness	ASTM D6525	0.432 in
Light Penetration / Ground Cover	ASTM D6567	6.2% / 93.6%
Water Absorption	ASTM D 1117 & ECTCTASC 00197	531%
Unvegetated Bench-Scale Rain Splash and Runoff (not to be used as a design value)	ASTM D7101	Soil Loss Ratio* = 13.13 Soil Loss Ratio* = 16.77 Soil Loss Ratio* = 21.41
Unvegetated Bench-Scale Shear Stress (not to be used as design value)	ASTM D7207	1.64 lbs/ft^2 @ ½ in. soil loss
Seed Germination and Plant Growth Under Bench-Scale Conditions	ASTM D7322	441% 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 = 0.005
- Maximum Permissible Shear Stress = 1.75 lbs/ft^2 (84 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^2 (100 yd^2)	167.23m^2 (200 yd^2)
Weight ±10%	25kg (54 lb)	50kg (108 lb)

Highway Roll Details

Width	2.44m (8 ft)	4.88m (16 ft)
Standard Length	171.5m (562.5 ft)	171.5m (562.5ft)
Area	418m^2 (500yd^2)	836.1m^2 (1000yd^2)
Weight ±10%	127kg (280lb)	254kg (530lb)

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S32 UVD

Specification Sheet

The ErosionControlBlanket S32 UVD is an ultra short-term double net straw fiber erosion control blanket designed for use on moderate 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 S32 UVD meets all requirements established in the FHWA FP-03 as a Type 1D 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 UVD comes packaged in clear shrink-wrap with a blue 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^2)
2 = top and bottom rapid photodegradable nets with a mesh size of 0.588 x 0.5 in (1.49 x 1.3 cm)
UVD = rapid photodegradable nets and thread 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^2
Tensile Strength	ASTM D6818	11.3 lbs/in @ 21.9% MD 5.6 lbs/in @ 14.6% TD
Thickness	ASTM D6525	0.372 in
Light Penetration / Ground Cover	ASTM D6567	5.4% / 94.6%
Water Absorption	ASTM D 1117 & ECTCTASC 00197	496%
Unvegetated Bench-Scale Rain Splash and Runoff (not to be used as a design value)	ASTM D7101	Soil Loss Ratio* = 11.27 Soil Loss Ratio* = 12.56 Soil Loss Ratio* = 14.00
Unvegetated Bench-Scale Shear Stress (not to be used as design value)	ASTM D7207	1.49 lbs/ft^2 @ ½ in. soil loss
Seed Germination and Plant Growth Under Bench-Scale Conditions	ASTM D7322	527% 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 = 0.005
- Maximum Permissible Shear Stress = 84 Pa (1.75 lbs/ft^2)
- 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^2 (100 yd^2)	167.23m^2 (200 yd^2)
Weight ±10%	25kg (54 lb)	50kg (108 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%	100kg (216 lb)	200kg (432 lb)