



Specification Sheet

S31 UVD

The S31 UVD blanket from ErosionControlBlanket.com is manufactured from 100% agricultural straw stitched to one rapid, 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 months depending on moisture, light, and environmental conditions. The blanket is sewn together on 38.1 mm (1.5 in) centers, with rapid photodegradable thread to ensure the same rate of degradation for the net and thread. Each roll of S31 UVD is packaged in blue shrink-wrap with a white 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 | 4.9 oz/sq. yd. |
| ASTM D6818 – Tensile Strength Machine Direction (MD) Transverse/Cross Direction (TD) | Index Test Index Test | 8.9 lbs/in @ 24.5% 4.4 lbs/in @ 21.1% |
| ASTM D6525 – Thickness | Index Test | 0.266 in |
| ASTM D6567 – Light Penetration | Index Test | 16.2% |
| ASTM D 1117 & ECTC-TASC 00197 – Water Absorption | Index Test | 437.35% |
| ECTC Method 2 – Determination of Unvegetated RECP Ability 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* = 10.31 Soil Loss Ratio* = 10.14 Soil Loss Ratio* = 9.96 |
| ECTC Method 3 – Determination of Unvegetated RECP Ability Protect Soil from Hydraulically-Induced Shear Stresses Under Bench-Scale Conditions | Regression (power curve) | 0.94 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 = 323% (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 UVD for use in channel applications)
- Manning’s “n” = 0.027
- 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)
- S31 UVD 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 | 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 | 96kg (208 lb) | 192kg (416 lb) |

More information available upon request.