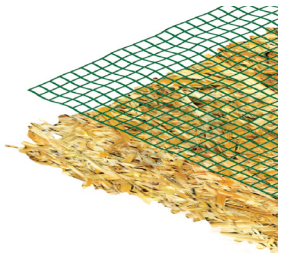
Carthage Mills **Product Data**

Geotextiles | Erosion Control | Geogrids | Geomembranes

# SR-1 Single Net Straw Rolled Erosion Control Product

## DESCRIPTION

Excel SR-1 temporary Erosion Control Blanket is composed of a 100% weed free agricultural straw matrix mechanically (stitch) bonded on two-inch centers to a single synthetic, photodegradable net. The net is secured to the top of the RECP to restrain the straw matrix once installed. Excel SR-1 blanket is intended for use in applications requiring erosion protection for a period up to twelve months. The material is fully degradable. The net and thread are photodegradable and the fiber matrix is biodegradable. Actual field longevity is dependent on soil and climatic conditions.



Each roll of Excel SR-1 is made in the USA.

| Material Content | | |
|---|---|---|
| Matrix | Straw | |
| Netting | Lightweight, Synthetic, Regular Degradable | Top Net (Green) |
| Thread | Synthetic, Regular Degradable | |

| Standard Roll Sizes | | | | |
|---|---|---|---|---|
| Width | 8 ft | (2.4 m) | 16 ft | (4.9 m) |
| Length | 112.5 ft | (34.1 m) | 563 ft | (171.0 m) |
| Weight ± 10% | 50 lb | (22.7 kg) | 500 lb | (227.0 kg) |
| Area | 100 sy | (83.6 $m^2$) | 1000 SY | (836.0 $m^2$) |

*Material available in custom roll sizes*

| Approvals & Classification | |
|---|---|
| Classification | FHWA: Type 2.C / ECTC: Type 2.C |
| TTI Approvals | Class 1 Type A, B |
| NTPEP Number | ECP-2019-03-010 |

| Index Property | Test Method | Typical | |
|---|---|---|---|
| Thickness | ASTM D6525 | 0.28 in. | (7 mm) |
| Mass/Unit Area | ASTM D6566 | 8.0 oz/sy | (275 g/sm) |
| Tensile Strength – MD | ASTM D6818 | 110 lbs/ft | (1.6 kN/m) |
| Tensile Strength – TD | ASTM D6818 | 60 lbs/ft | (0.9 kN/m) |
| Elongation - MD | ASTM D6818 | 30% | |
| Elongation – TD | ASTM D6818 | 30% | |
| Density/Specific Gravity | D792 | N/A | |
| Light Penetration | ASTM D6567 | 15% | |
| Biomass Improvement | ASTM D7322 | 375% | |
| Water Absorption | ASTM D1117 | 400% | |

| Design Parameters | | |
|---|---|---|
| **Property** | **Unvegetated** | **Vegetated[3]** |
| RUSLE C Factor[2] | 0.02 | N/A |
| Slope Maximum Gradient[1] | 3H:1V | N/A |
| Permissible Shear Stress[2] | 1.6 psf (75 Pa) | N/A |
| Permissible Velocity[2] | 5.0 fps (1.5 m/s) | N/A |

| Manning's n Roughness (HEC-15) | | |
|---|---|---|
| $\tau_{lower}$ | $\tau_{mid}$ | $\tau_{upper}$ |
| 0.040 | 0.030 | 0.030 |

1 Maximum Gradient a recomendation for typical insllations.
2 Hydraulic thresholds compliant with ASTM D6459/D6460 but generalized for typical applications.
3 Vegetated values dependent on established stand of vegetation

Effective 12/2025

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