

# Material Properties and Dimensions



## Specifications

Western Excelsior manufactures a full line of Rolled Erosion Control Products (RECPs). The Coconut/Straw Excel CS-3 All Natural Extended Term Erosion Control Blanket consists of 30% coconut fibers and 70% certified noxious weed free agricultural straw manufactured into a continuous matrix. The coconut/straw matrix is confined by a biodegradable, jute/scrim net on top and bottom, mechanically (stitch) bound on two inch centers with a biodegradable, cotton thread. Excel CS-3 All Natural is intended for slope or channel erosion control applications requiring up to twenty-four months of functional longevity. Actual field longevity is dependent on soil and climatic conditions.

Each roll of EXCEL CS-3 All Natural is made in the USA and manufactured under Western Excelsior's Quality Assurance Program to ensure a continuous distribution of fibers and consistent thickness. Verifiable values are provided in Table 1 and product characteristics are provided in Table 2.

Table 1- Specified Expected Values

| Tested Property              | Test Method | Value  |
|------------------------------|-------------|--|
| Tensile Strength (MD) x (TD) | ASTM D6818  | 16.0 lb/in (2.8 kN/m) x 11.0 lb/in (1.9 kN/m)  |
| Elongation (MD) x (TD)       | ASTM D6818  | 20 % x 20 %                                    |
| Mass Per Unit Area           | ASTM D6475  | 8.9 oz/yd <sup>2</sup> (302 g/m <sup>2</sup> ) |
| Thickness                    | ASTM D6525  | 0.34 in (9 mm)                                 |
| Light Penetration            | ASTM D6567  | 10 % open                                      |
| Water Absorption             | ASTM D1117  | 325 %  |

Table 2 - Netting

|                               |                                      |
|-------------------------------|--------------------------------------|
| Top Net Type                  | Biodegradable, Jute Scrim Leno Weave |
| Bottom Net Type               | Biodegradable, Jute Scrim Leno Weave |
| Top Net Opening Dimensions    | 0.5 in (13 mm) x 1.0 in (25 mm)      |
| Bottom Net Opening Dimensions | 0.5 in (13 mm) x 1.0 in (25 mm)      |

Excel CS-3 All Natural is available in multiple roll sizes ranging in width from 8.0 ft to 16.0 ft. and 112.5 ft to 600 ft in length. Standard roll sizes are 100 square yards, measuring 8.0 ft wide by 112.5 ft long. Custom roll sizes are available upon request.

Document # WE\_EXCEL\_CS3AN\_SPEC. This document has been developed to provide the characteristic properties of the product described. For questions, to request performance data or installation recommendations, contact Western Excelsior at 866-540-9810 or [wexcotech@westernexcelsior.com](mailto:wexcotech@westernexcelsior.com). Updated 8/1/2016.