



Material Properties and Dimensions

Excel S-1™



Specifications

Western Excelsior manufactures a full line of Rolled Erosion Control Products (RECPs). Excel S-1 temporary Erosion Control Blanket is composed of a 100% machine produced High Altitude Rocky Mountain Aspen Excelsior matrix mechanically (stitch) bonded on two inch centers to a single photodegradable, synthetic net.

The excelsior matrix consists of curled, machine produced fibers with greater than eighty percent longer than six inches. The nominal weight of the product is 0.98 pounds per square yard. Excel S-1 blanket is available in natural color or dyed green and is recommended for use in channels or slopes requiring erosion protection for a period of up to eighteen months. Actual field longevity is dependent on soil and climatic conditions.

Each roll of EXCEL S-1 is made in the USA and manufactured under Western Excelsior's Quality Assurance Program to ensure a continuous distribution of fibers and consistent thickness. Typical manufactured properties are provided in Table 1 and netting characteristics are provided in Table 2.

Table 1- Specified Expected Values

Tested Property	Test Method	Value
Tensile Strength (MD) x (TD)	ASTM D6818	5.0 lb/in (0.9 kN/m) x 4.0 lb/in (0.7 kN/m)
Elongation (MD) x (TD)	ASTM D6818	12 % x 10 %
Mass Per Unit Area	ASTM D6475	11.5 oz/yd ² (390 g/m ²)
Thickness	ASTM D6525	0.47 in (12 mm)
Light Penetration	ASTM D6567	28 % open
Water Absorption	ASTM D1117	275 %

Table 2 - Netting

Top Net Type	Synthetic, Photodegradable
Bottom Net Type	No Net
Top Net Opening Dimensions	0.8 in (20 mm) x 1.0 in (25 mm)
Bottom Net Opening Dimensions	N/A

Excel S-1 is available in multiple roll sizes ranging in width from 4.0 ft to 16.0 ft. and 45 ft to 600 ft in length. Standard roll sizes are 80 square yards, measuring 4.0 ft wide by 180.0 ft long or 8.0 ft wide by 90 ft long. Custom roll sizes are available upon request.

The information contained herein may represent product index data, performance ratings, bench scale testing or other material utility quantifications. Each representation may have unique utility and limitations. Every effort has been made to ensure accuracy, however, no warranty is claimed and no liability shall be assumed by Western Excelsior Corporation (WEC) or its affiliates regarding the completeness, accuracy or fitness of these values for any particular application or interpretation. While testing methods are provided for reference, values shown may be derived from interpolation or adjustment to be representative of intended use. For further information, please feel free to contact WEC.