



## Standard Material Certification for Conformance and Delivery - Aspen Turbo Mulch™

"Blanketing Nature With Nature"

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To Whom it May Concern:

This document has been drafted to certify Western Excelsior manufactures the Rolled Erosion Control Product (RECP) marketed as Aspen Turbo Mulch. Each blanket is subjected to Western Excelsior's Quality Assurance Program and is manufactured to the specifications listed in document number WE\_EXCEL\_ATM\_SPEC. Further, Western Excelsior utilizes industry standardized test procedures to develop performance references for Aspen Turbo Mulch. Document number WE\_EXCEL\_ATM\_PERF presents the industry standardized testing and results. Installation instructions are provided in document numbers WE\_EXCEL\_ATM\_SII and WE\_EXCEL\_ATM\_CII for hillslope and channel installations, respectively. A copy of document number WE\_EXCEL\_ATM\_SPEC is attached; all other documentation may be obtained by calling Western Excelsior Technical Services at 1-866-540-9810, at [www.westernexcelsior.com](http://www.westernexcelsior.com) or by email at [wexcotech@westernexcelsior.com](mailto:wexcotech@westernexcelsior.com).

Since most Western Excelsior products are sold to distributors and stocked, Western Excelsior is typically unable to certify material type or quantity delivered to the project/project site. However, space is provided below for distributor/contractor certification of materials delivered to the project/project site.

Regards,

A handwritten signature in black ink, appearing to read "Chad M. Lipscomb".

Chad M. Lipscomb, PE (CO), CPESC  
Director, Technical Services  
Western Excelsior Corporation  
[chad@westernexcelsior.com](mailto:chad@westernexcelsior.com)  
866-540-9810

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### Standard Material Delivery Certification

Material Provided by (Distributor/Contractor): \_\_\_\_\_

Material Provided to (Contractor/Project): \_\_\_\_\_

Project Name / Project Number: \_\_\_\_\_

Rolls/Square Yards Provided: \_\_\_\_\_

Specification #: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Title: \_\_\_\_\_



"Blanketing Nature With Nature"

Chad Lipscomb, PE (CO), CPESC  
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Effective: 6/27/2017

RE: Certificate of Conformance: Aspen Turbo Mulch™

To Whom it May Concern:

This letter is to certify that Western Excelsior manufactures the product marketed as Western Excelsior Aspen Turbo Mulch. Each bundle is subjected to Western Excelsior's Quality Assurance Program and is manufactured to the specifications listed in document number WE\_EXCEL\_ATM\_SPEC. A copy of the specification document is attached. If you have any questions regarding the installation, use or properties of the Aspen Turbo Mulch, please feel free to contact me.

Regards,

A handwritten signature in black ink, appearing to read "Chad M. Lipscomb".

Chad M. Lipscomb, PE (CO), CPESC  
Director, Technical Services  
Western Excelsior Corporation



# Material Properties and Dimensions

## Aspen Turbo Mulch™



### Specifications

Western Excelsior manufactures Aspen Turbo Mulch in addition to a full line of Rolled Erosion Control Products (RECPs) and sediment control logs. Aspen Turbo Mulch consists of a blend of machine produced, High Altitude Rocky Mountain Aspen Fibers and cellulose material manufactured to be free of weeds and foreign material. Once applied, Aspen Turbo Mulch provides a mulching layer to enhance vegetation establishment. Aspen Turbo Mulch is highly water absorbent and designed for clog-free application.

Each bundle of Aspen Turbo Mulch is produced under Western Excelsior’s Quality Assurance Program to ensure consistent fiber content. Table 1 presents the nominal properties of Aspen Turbo Mulch. Table 2 presents Specified Expected Values and dimensions.

Mulch Property	Value
Bundle Weight	50 lb (Machine Compressed)
Moisture Content	10% ± 3%
Fiber Matrix Components	Aspen Excelsior Fibers and Cellulose
Fiber Composition	60% Aspen Excelsior ± 10% and 40% Recycled Paper ± 10%
*All measurements performed at the time of manufacture	

Characteristic	Dimension / Value
Fiber Size	100% passing 5mm Sieve 80% retained 0.6 mm Sieve
Organic Content	97% ± 2%
Ash Content	3% ± 2%
pH in Water (ASTM D778)*	6.6

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.