

## Tectum™ Products and LEED\*

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Leadership in Energy and Environmental Design (LEED) is a program of the U.S. Green Building Council. LEED certification provides independent, third-party verification that a building, home or community was designed and built using strategies aimed at achieving high performance in key areas of human and environmental health: sustainable site development, water savings, energy efficiency, materials selection and indoor environmental quality.

The LEED\* Green Building Certification Program evaluates every aspect of the construction process and building components used in new and existing buildings. Tectum Inc. fully endorses the LEED Green Building Rating System. A number of our representatives are LEED-Accredited Professionals and members of local USGBC Chapters. Tectum products may contribute to the following credits of the LEED rating system:

**EA Prerequisite 2: Minimum Energy Performance** - Tectum Structural Roof Deck Systems provide high R-Values. Installations have few thermal shortcuts, providing complete R-value coverage.

**EA Credit 1: Optimized Energy Performance** - Tectum Structural Roof Deck Systems provide high R-Values, up to R-43.

**MR Credit 2: Construction Site Waste Management** - Tectum products are typically manufactured in 1" length increments at the factory, reducing or eliminating field cuts and waste at the site. Tectum products are shipped without the need for boxing and minimal if any crating, reducing packaging for minimal site waste. Tectum products are biodegradable and can be ground up for soil amendment, eliminating landfill needs.

**MR Credit 4: Recycled Content** - Tectum Fabri-Tough Wall Panels and Finalé Fabri-Tough Wall Panels have 23% post-consumer recycled content by value and 8% post-consumer recycled content by weight as the Hytex Acoustical Fabric is 100% recycled material.

**MR Credit 5: Regional Materials** - Project must be within 500 miles of the manufacturing site and 500 miles of the raw material extraction sites. Tectum products are manufactured in Newark, OH. Tectum Inc.'s raw materials are extracted in the following locations:

- Aspen Wood Fibers – Rice Lake, WI (44%)
- Magnesium Oxide – Manistee, MI (25%)
- Sodium Silicate Glass – Gurnee, IL (16%)
- Magnesium Sulfate – Newark, OH (9%)
- Calcium Carbonate – Piqua, OH (6%)

**MR Credit 6: Rapidly Renewable Resources** - Tectum Acoustical Products contain 44 percent, by weight, Trembling Aspen (*Populus Tremuloides*) wood fiber harvested at Rice Lake, Wisconsin. The growth time for *Populus Tremuloides* is 10 - 15 years, for pulping and stranding. *Populus Tremuloides* reproduces by "suckering" of stumps after clear cutting. No planting is required. Saplings sucker within a few months after cutting, with new forest stands forming within 2 - 5 years. Typical growth is 5 - 7 feet per year for the first 3 - 5 years. *Populus Tremuloides* is considered a "woody weed" by land managers due to its self propagation and invasiveness and is typically harvested for pulping and stranding when trees reach 30 - 40 feet in height, typically in 10 - 15 years.

**MR Credit 7: Certified Wood** - Tectum products are made from Wisconsin aspen wood fibers, harvested by Johnson Timber Corporation and shredded by American Excelsior Company. Forty-four percent of Tectum panels are wood excelsior and are considered FSC Mix Credit.

Tectum Inc. Chain-of-Custody #: RA-COC-007078

American Excelsior Chain-of-Custody #: RA-COC-007186

Johnson Timber Chain-of-Custody #: SW-COC-002249

**EQ Prerequisite 3: Minimum Acoustical Performance (LEED For Schools)** - Tectum products are manufactured primarily as an acoustical product. Tectum products apply directly to this strategy by providing abuse-resistant acoustical solutions. Tectum products can be field painted up to six times without degrading acoustical performance, offering a life-of-the-building service life, low maintenance acoustical solution.

**EQ Credit 3.1 and 3.2: Construction IAQ Plans** - Tectum products can be field painted if required, but do not need to be painted for use. Tectum products may contribute to indoor air quality by eliminating the need for field painting. If field painting is desired, Tectum products do not require priming. Consult Tectum Marketing Bulletin M-77 for field-painting information.

**EQ Credit 4.1: Low-Emitting Materials, Adhesives and Sealants** - Tectum products do not contain VOC's.

**EQ Credit 4.4: Low-Emitting Materials, Composite Wood & Agrifiber Products** - Tectum products contain no Urea Formaldehyde.

**EQ Credit 10: Mold Prevention (LEED for Schools)** - Tectum products do not support the growth of mold or bacteria. Tested per ASTM D3273, three Tectum product samples scored a 10, 9 & 9 out of a possible 10. Tectum products are available with an anti-microbial paint if desired.

**EQ Credit 11: Low Impact Cleaning and Maintenance Equipment Policy (LEED for Schools)** - Tectum products contribute favorably to this strategy as they are extremely abuse-resistant and intended for life-of-the-building service. Tectum products can be cleaned using a vacuum cleaner or a broom and do not require special cleaning supplies.

**ID Credit 1: Innovation in Design** - Tectum Composite Structural Roof Decks may qualify for this strategy as they provide structural roof deck, finished ceiling, acoustics, thermal value and nailable roofing substrate in one quick-to-install panel. Use of Tectum Structural Roof Deck Systems provide the synergy of four trades in one product. The panels are factory-assembled, shipped complete and ready for installation reducing construction time, shipping miles and energy.

Tectum products are listed in the GreenSpec Directory.\*\*

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