

A UNIQUE ACOUSTICAL PRODUCT

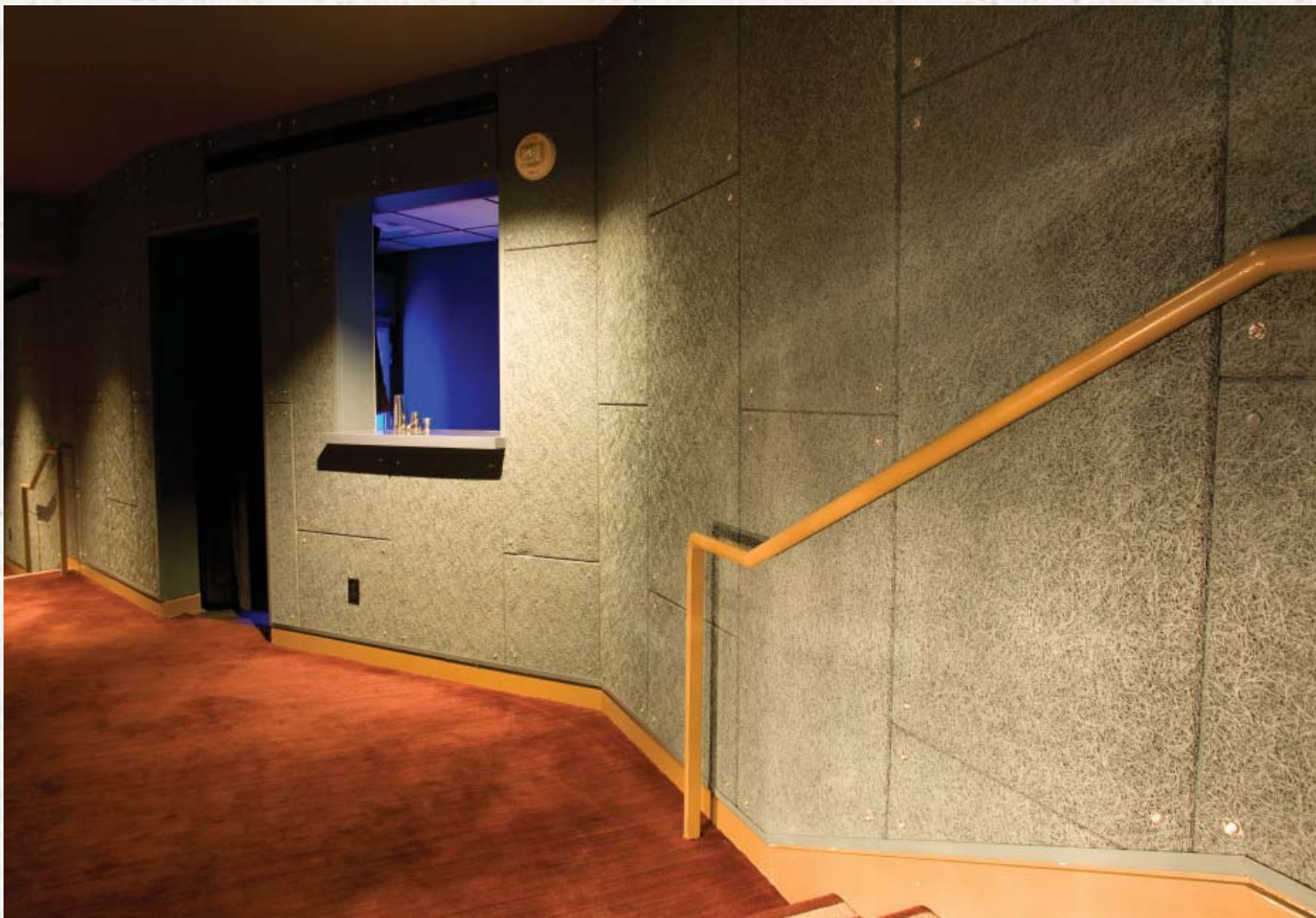
JANUARY 2009

# Acoustical Ceilings, Walls, and Special Applications

---



The Pearl Theater at the Palms Hotel (Las Vegas, NV)  
▼ Tectum Interior Panels





## ACOUSTICAL PANELS

Tectum interior panels offer an effective, permanent and attractive solution for any kind of activity that produces undesirable noise levels within an enclosed space. They are abuse resistant and are able to withstand the impact of thrown or kicked balls in gyms, yet are lightweight.

Tectum acoustical panels are easy to install in new construction and in existing buildings for effective sound control. Up to 1.00 NRC can be achieved. Panels are typically screwed to furring strips installed 24" o.c. horizontally (when using vertical panels). Panels can be screwed directly to masonry, block or wood substrates.

### SIZES, FINISHES, TYPES

Tectum interior panels are available 1", 1 1/2" and 2" thick in widths of 23 3/4", 31 3/4" and 47 3/4" with long edges beveled. 1 1/2" and 2" panels are also available with T&G edges in widths of 23", 31" and 47" for interlocking continuous paneling. 4' to 12' lengths are available in 1" increments. Tectum interior panels are available in natural, painted white or custom colors, and can easily be field painted without losing their acoustical efficiency.

V-Line Interior Panels attach directly for a continuous installation without a visible seam. The "V" groove is 1/4" deep to match the beveled edges and the design divides the 2' or 4' wide panel into equal segments approximately 8" wide. Lengths from 2' to 14' are available in 1", 1 1/2" and 2" thicknesses.



▲ Carlisle County High School (Bardwell, KY) Tectum V-Line Ceiling Panels



◀ Beacon Building (Culver City, CA) Direct-Attached Ceiling Panels

If concealed attachment is desired, installation of 1" thick, 23 3/4" wide Kerfed Wall Panels is fast and economical. By inserting the furnished vinyl splines into the kerf, then fastening the splines to the wall or other structure, you have successfully installed your Kerfed Wall Panel. Kerfed panels are not recommended where high-impact is anticipated.



▲ Cedarville University (Cedarville, OH) Direct-Attached Interior Panels

## FINALÉ WALL PANEL SYSTEM

Tectum Finalé panels make installation as easy as 1-2-3. Whenever your product calls for absorption of undesirable noises, and where the activities demand abuse-resistant panels, Tectum Finalé is the answer. With a high NRC (noise reduction coefficient) of .75 to 1.00, Tectum Finalé is the one-step answer to abuse-resistant acoustics. The Finalé system consists of Tectum Wall Panels, Tectum furring strips on all four sides and SoniCor insulation united in a single product.

### SoniCor\* FIBER

SoniCor, a completely green product produced from recycled materials, allows the Finalé product to contribute favorably to the recycled content portion of the LEED certification program. While the NRC remains at .75, the acoustical values at the lower frequencies have improved over the previous version of Finalé.

### SIZES, FINISHES

Tectum Finalé wall panels are available in various thicknesses. Widths of 23 3/4" and 47 3/4" with beveled edges. Up to 12' lengths are available in 1' increments. Custom lengths are also available. Factory finish is in natural, painted white or custom colors. Panels can be painted up to six times without losing their acoustical efficiency.

### MOUNTING METHODS

Screw panels to a substrate with either painted head drywall screws, painted self drilling screws, or painted TapCon™ screws as appropriate for the substrate. Also available in 47 3/4" with a center furring.

Lee Summit Elementary ▶  
(Lee Summit, MO)  
Finalé Wall Panels

Finalé ▶



**Finalé edges are not considered "finished edges."** Tectum Inc. suggests an attachment of either wood, plastic or metal edge treatment be added for a finished look.



## FINALÉ FABRI-TOUGH™ WALL PANELS

Abuse-resistant Tectum Finalé Fabri-Tough panels have greater noise absorption than their sister panel, Fabri-Tough. Finalé Fabri-Tough panels combine 1" Tectum panels along with 1" Tectum furring with the cavity filled with SoniCor Insulation. The face of the panel is then wrapped with a durable fabric, making the panel one of the highest NRC abuse-resistant panels available.

Tectum Finalé Fabri-Tough panels are the ideal solution for controlling noise efficiently, economically and attractively in any area where abuse resistant decorative panels are needed. These panels are priced competitively and will last longer than ordinary, soft core panels.

Tectum Finalé Fabri-Tough panels are tackable and tough. They can be used repeatedly as bulletin or display boards without visible effects.

### SIZES, FINISHES

Tectum Finalé Fabri-Tough wall panels are available in a variety of fabric colors. They are 24" wide with lengths of 4', 5', 6', 7', 8', 9' and 10'. The overall thickness of the panels is 2".

### MOUNTING METHODS

Mounting these panels is easy. Tectum Finalé Fabri-Tough wall panels can be field cut to desired lengths. Using the spline system to mount the panels makes installation quick and easy. The wall panel fabric is wrapped around

the edges on the long sides to the kerf, which is located on the 1" thick furring. Panels are installed by inserting the vinyl spline into the kerf, then fastening the splines to a substrate.



▲ Finalé Fabri-Tough



## FABRI-TOUGH™ WALL PANEL SYSTEMS

Abuse-resistant Tectum Fabri-Tough acoustical panels set a new standard for durability in fabric wrap wall panel systems.

Control noise efficiently, economically and attractively in open plan, closed or mixed-use space with the Fabri-Tough wall panel system. Efficiently because Tectum panels are known for sound absorption. Economically because these panels are competitively priced and will last longer than ordinary, soft-base panels. Attractively because they come in your choice of fabric colors that coordinate



with popular contract furnishings.

Tackability is another feature of all Tectum Fabri-Tough panels. They can be used repeatedly as bulletin or display boards without visible effect, making them ideal for work areas, conference rooms and classrooms.

Depending on mounting, the Fabri-Tough wall panel system can provide NRC's from .50 to .90. They are available 1" thick, 2'x4' up to 10'. Fabri-Tough wall panels can be field cut to desired size. Mounting is quick and easy via the internal spline system. The wall panel fabric is wrapped around the edges of the long sides to the kerf. Panels are installed by inserting

the furnished vinyl splines into the kerf, then fastening the splines to the wall or other structure.

Tectum Fabri-Tough panels have a flame spread of 25 or less under the ASTM E84 test method. Tectum Fabri-Tough panels meet the requirements of the room corner fire test (UBC 8-2 or equivalent) for use in areas not protected by automatic sprinklers.

For panels to be used in recessed areas, some field adjustments may be necessary.



## FABRI-TOUGH™ DÉCOR PANEL SYSTEMS

Fabri-Tough Décor panels provide an economical and eye-pleasing way to control environmental sound problems.

For over ten years these tough, sound absorbing panels have proven they can stand up to the abuse delivered daily in such high-traffic areas as schools. They take the hard knocks without showing the indentations and wear you might expect with other products.

Besides their inherent sound absorbing qualities, Fabri-Tough

Décor panels are tackable, making them ideal for personal work areas, conference rooms, etc. The unique fiber panel construction and fabric weave allows repeated insertion of tacks and push pins without leaving visible marks. For attachment, 20" Z clips are available, providing a sturdy way of hanging decor panels.

Tectum Fabri-Tough Décor panels have a variety of fabric selections, providing many ways to use these tough, attractive and economical sound absorbers in commercial installations.



▲Fabri-Tough Décor Wall Panels

## FABRI-TOUGH II™ WALL PANEL SYSTEM

Tectum Fabri-Tough II Wall Panels are the latest innovative wall panel introduced by Tectum Inc.

Combining abuse-resistant Tectum Wall Panels and a 1/8 inch, 18 pound density fiberglass facer laminated to the face of the panel with new designer fabrics, Fabri-Tough II is perfect for offices, conference rooms and any space



where designer fabrics are desired.

Control noise efficiently, economically and attractively in open plan, closed or mixed-use space with the Fabri-Tough II Wall Panel System. Efficiently because Tectum panels are known for sound absorption and abuse-resistance. Economically because these panels are competitively priced and will last longer than

ordinary, soft-base panels. Attractively because they come in your choice five designer patterns and a multitude of fabric colors that coordinate with popular contract furnishings.



## ACOUSTICAL CEILINGS

Tectum™ ceiling panels combine a unique textured beauty with superior abuse resistance. These high-impact wood fiber panels combine several functions that truly set them apart for use in commercial, institutional, recreational and industrial buildings.

The panels are available in a wide range of sizes. They can be cut easily and shaped with standard woodworking tools, and installed in standard grid systems. By using lay-in, Tonico, Multiplane, V-line and Designer Series Tectum panels, the designer can create a variety of three-dimensional patterns.

Tectum ceiling panels can be used in their attractive unpainted natural color, painted white, or custom colors. Also, these panels may be painted or re-painted in the field up to six times without reducing their acoustical properties.

Tectum decorative and acoustical panels can take repeated abuse and still retain their appearance. Tectum ceiling panels have remained the product of choice for over 50 years for any area where noise is a problem and the ceilings are subject to abuse.

Tectum ceiling panels meet the requirements of ASTM E-1264 Type XIV pattern L Class A.

### FEATURES:

- Reduces noise—NRC up to 1.00
- Class A/Class I interior finish
- Durability—tough, abuse resistant
- Lifetime warranty against breakage
- Flexible—easy to use
- Economical—longer life span
- Can be field painted six times.  
(See Marketing Bulletin M-77 on our website for specific application.)
- Nationwide distribution—local stocks
- Available in metric sizes
- R-Value is 1.75/inch
- Light reflectance up to .75



▲ Sea Star Restaurant (Seattle, WA)  
Lay-In Ceiling Panels

## ACOUSTI-TOUGH CEILING SYSTEM

### LIMITED LIFETIME WARRANTY

The Tectum Acousti-Tough Ceiling System™ is a suspended acoustical ceiling specifically designed for multi-purpose rooms and gymnasiums. Tectum panels are the only hard surfaced, durable panels that can take repeated blows from basketballs, volleyballs and soccer balls without cracking or breaking.

The Tectum Keep Clip, an integral part of the Acousti-Tough Ceiling System™, holds the Tectum ceiling panels in place and automatically repositions them after being struck, saving maintenance time and money in high ceiling areas. It is simple to install and permits full access to the plenum. Two sizes are available to

accommodate panels from one inch to two inches thick.

Panels must be square-edged, lay-in for this application. Aesthetics are not affected because the clip is invisible from below.

The Acousti-Tough Ceiling System™ is appropriate in a wide variety of abuse-prone applications:

- Recreational facilities—to prevent stray balls from dislodging/ breaking ceiling panels.
- Exterior applications—shopping centers, canopies, soffits, tunnels, parking ramps.
- Unsupervised corridors, locker rooms, garages and other areas to minimize maintenance.

### EXPOSED GRID

All manufacturers—must be minimum intermediate duty grid, 1 1/2" height main runners and cross tees.



▲ Moreau Seminary Gym (Notre Dame, IN)  
Tectum Acousti-Tough System

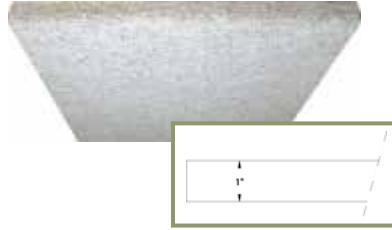
## AESTHETIC ACOUSTICAL CEILING

The following dimensional lay-in ceiling panels are available.

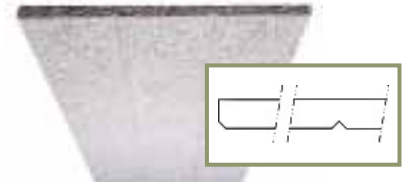
All Tectum Lay-In ceiling panels require a standard  $\frac{5}{16}$ " intermediate duty grid with  $1\frac{1}{2}$ " high web.

**Mounting E-400: Panel face 16" from the test surface.**

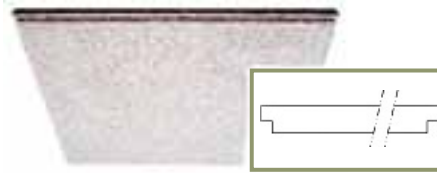
**NOTE: There is no asbestos, nor has there ever been any asbestos, used in Tectum products.**



**LAY-IN** – Tectum Lay-In panels offer the only lifetime warranty against breakage. No other panel can make this claim.  $1\frac{1}{2}$ " – 2" thick panels require rabbeting to fit into the grid system.



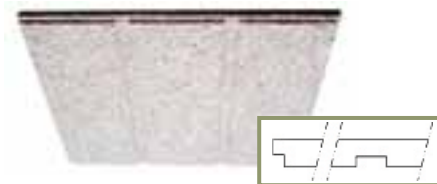
**V-LINE** – Tectum V-Line direct attached ceiling panels allow for continuous installation without a visible seam. The "V" groove is  $\frac{1}{4}$ " deep to match the beveled edges. This design divides the 2' wide panel into three  $7\frac{7}{8}$ " segments. Lengths from 2' to 14' also allow a true linear look without interruption over long spans. Panels available in 1",  $1\frac{1}{2}$ " and 2" thicknesses. Appropriate as wall panels, too. Beveled edges are recommended where panel edges meet upon installation.



**TONICO** – Tonic ceiling panels are face rabbeted to provide a  $\frac{13}{32}$ " reveal for 1" thick panels, a  $\frac{3}{4}$ " reveal for  $1\frac{1}{2}$ " thick panels and a 1" reveal for 2" thick panels. This provides a wide choice of possible ceiling effects, plus your choice of natural, painted white, or custom colors.



**SOFT LOOK TONICO** – Ceiling panels are face rabbeted to provide a  $\frac{13}{32}$ " reveal for 1" thick panels. This durable ceiling panel features a softer, tapered appearance, and comes in your choice of natural, painted white, or custom colors.



**DESIGNER** – Tectum 1" or  $1\frac{1}{2}$ " thick Designer panels provide a unique 3-D linear look that can be emphasized with panels as long as 8'. The rabbeted edges and face grooves are  $\frac{13}{32}$ " deep on the 1" panel and  $\frac{3}{4}$ " deep on the  $1\frac{1}{2}$ " panel. Natural, painted white, or custom colors.



**DESIGNER SERIES PLUS** – The nine three-dimensional squares in each 2' x 2' panel provide a very attractive ceiling pattern in any size room. Rabbeted depths for both 1" and  $1\frac{1}{2}$ " thick Designer Series Plus panels are the same as those in the Designer panels. Choose from natural, painted white, or custom colors.



## RADIUS AND SQUARE CLOUD PANELS

These innovative panels deliver better design flexibility and better performance in high areas where a grid is not practical and superior noise control is needed.

Square corner or radius corner panels installed at an angle will reduce the risk of damage caused by balls and other objects becoming lodged on top of panels. Radius corner clouds are available in 1 1/2" and 2" x 23 3/4" x 47 3/4", 23 3/4" x 96" and up to 47 3/4" x 47 3/4".

Square corner clouds are available in 1 1/2" and 2" thicknesses with up to 47 3/4" widths by 144" lengths.

Edges can be beveled or square.



▲ Tectum Cloud Panel Installation

◀ Cloud with Tee and Hanger Wire

## SOUND BLOCKS

Tectum Sound Blocks are a decorative way to control reverberant sound in either new or existing rooms. Their 3"x 15 1/2"x 15 1/2" dimensions and beveled edges make them easy to install in various patterns.

Recommended spacing is 24" or 32" o.c. They come complete with individual hanging clips and in natural, painted white, and custom colors. Other sizes are available on special order.



WBNS-TV News Studio (Columbus, OH) ▶  
Sound Blocks

## FULL-SPAN CORRIDOR PANELS

A true linear look ... Tectum Full-Span corridor panels are specifically designed for corridor ceilings in schools and other wide-corridor buildings. Tectum products' resistance to impact and abrasion offers a durability for such heavily used areas that is not found in other acoustical materials. The panels are completely accessible for concealed services.

Used with standard grid suspension components, Full Span panels are available in natural,

painted white, or custom colors and lengths up to 144".



▲ Royal Middle School (Pattison, TX)  
Full-Span Corridor Panels



▲ West Valley Elementary  
(West Valley City, UT)  
Lay-In Ceiling Panels in Corridor

## HANGING BAFFLES

The use of Tectum acoustical panels as hanging sound baffles is growing in popularity as the durability, paintability, ease of application in numerous situations, and the need for their sound absorbing qualities is recognized by architects and acoustical engineers. Standard Tectum sound baffles are available in 1", 1 1/2" or 2" thicknesses, with square or beveled edges

(bottom only). Widths are 2' and they are 4' long. Finish is natural, painted white, or custom colors (both sides). Various methods are appropriate for hanging. See **Marketing Bulletin M-8** on our website for more details.

**CAUTION:** Do not use baffles above swimming pools or in gyms where repeated impacts will occur.



▲ Hartsfield Airport (Atlanta, GA)  
Custom Painted Hanging Baffles

## VARIATIONS LAY-IN CEILING PANEL

A new "variation" of a familiar and trusted product, Tectum Variations is a Tectum lay-in ceiling panel with a thin fiberglass veil laminated to the face of the panel. The panel is then painted. The end result is a smooth, attractive panel that will complement any design where high-end finishes are specified, while maintaining the outstanding abuse resistance Tectum panels have provided for years.

The non-gloss surface gives the panel an exclusive and true "plaster like" look. The facer allows sound waves that are not absorbed by the veil to pass through and be absorbed by the base board. The veil enhances the acoustical performance of Tectum one-inch ceiling panels.



▲ Morningside Children's Academy  
(Oak Park, IL) Variations Lay-In Ceiling Panels

## DIRECT-ATTACHED CEILING PANELS

Tectum panels can be mechanically attached to a variety of ceiling substrates which include: the underside of the roof deck; the joists and other support members; drywall suspension systems; metal and wood furring structures and other commonly used support systems. Panels should be no greater than 96" long, beveled on all four sides and placed in a random ashlar pattern (cinder block style).

See Marketing Bulletin M-40 for technical instructions.



▲ Grace Church (New York, NY)  
Direct-Attached Ceiling Panels



▲ Hickman County Elementary School  
(Clinton, KY) Direct-Attached Ceiling Panels



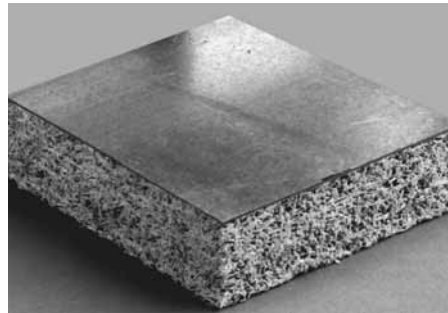
## SECURITY CEILING SYSTEMS

Designed to meet the specific security and acoustical requirements in confinement areas, the Tectum Direct Attachment Ceiling/Wall System has been successfully used in hundreds of correctional facilities across the country. The system is ideal for large, open areas such as dormitories and dining halls, as well as corridors where one long, steel-backed panel can span the corridor width.

The Tectum panels used for the direct attachment ceiling/wall system are as follows:

- Tectum 1" acoustical panels beveled on all four sides.
- Tectum 1 1/2" acoustical panels with T&G detailing on all four sides.

To install, simply attach the panels in an Ashlar pattern directly to the ceiling, furring, or drywall suspension grid using tamper-resistant screws.



- ▲ Panels are available with (as shown above) or without 24-gauge galvanized steel plate laminated to the back.



▲ Direct attachment to wall or ceiling



▲ Direct attachment to furring

## ACOUSTICAL • CEILINGS • WALLS • SPECIAL APPLICATIONS

For over half a century, the commercial and institutional design and construction industry has depended on Tectum's unique, cost-effective solutions to meet their acoustical challenges. Easy to work with and install, Tectum acoustical wall and ceiling treatments are not only sound absorbing, they are tough enough to stand up to abuse. Painted or left natural, they provide an attractive, durable finish in any interior application.

Manufactured at the Tectum Inc. plant in Newark, Ohio, Tectum Inc.'s performance products stand the test of time.

Today, Tectum Inc. has new products using the standard

Tectum panel in conjunction with other materials. Now, the architect, acoustical engineer, designer or building owner has a variety of acoustical products to choose from to create a different look or add character to any project.

Tectum acoustical panels are composed of aspen wood fibers, bonded with an exclusive inorganic hydraulic cement binder, and formed in a continuous process under heat and pressure. Physical characteristics usually obtained only with a combination of several separate building materials are found in Tectum products: insulation, excellent sound absorption, abuse resistance, a decorative textured interior finish...all in a structurally strong yet

lightweight product that carries a Class A/I flame spread rating. Tectum Roof Deck panels are available in natural (color may vary), white or custom colors.

**Note:** Thickness dimensions throughout this brochure are nominal.

***THERE IS NO ASBESTOS, NOR HAS THERE EVER BEEN ANY ASBESTOS, USED IN TECTUM PRODUCTS.***

***Tectum is a registered trademark of Tectum Inc.***

## GENERAL INFORMATION

Specifications subject to change without notice. Tectum Inc. assumes no responsibility for typographical errors.

### OTHER CATALOGS IN SWEET'S CATALOG FILE:

Tectum Roof Deck & Form Systems  
Sweets Section:  
03 51 13/TEC  
BuyLine 1436



▲ Police Department Firing Range  
(Los Angeles, CA)  
Tectum Hanging Baffles

P.O. Box 3002  
Newark, OH 43058-3002  
Phone: 888-977-9691  
Fax: 800-832-8869  
Email: info@tectum.com

More information about available Tectum products and specifications available online at [www.tectum.com](http://www.tectum.com).

## ENVIRONMENTAL STATEMENT/LEED CONTRIBUTION

### ENVIRONMENTAL STATEMENT/GREEN ARCHITECTURE

Tectum panels are made from sustainable domestic, renewable raw materials. The wood excelsior is harvested from new forest growth that reaches maturity in 25-30 years. Tectum Inc. only purchases excelsior from companies that are part of the Sustainable Forestry Initiatives (SFI) Program or the Forestry Stewardship Council (FSC). These programs are a comprehensive system of objectives and performance measures that integrates the perpetual growing and harvesting of trees with the protection of wildlife, plants, soil, and water quality.

The primary source of magnesium oxide used in the binder is saltwater. The silicate used is made from sand. Tectum Inc. has the ability to recover waste magnesium and to recycle the water used in the manufacturing process. The recovered magnesium oxide can be used in the manufacture of magnesium sulfate, a primary ingredient in the binder. Tectum products continue to meet the needs of owners, architects, and engineers that require "green" building products.

### TECTUM PRODUCTS AND LEED

The Leadership in Energy and Environmental Design (LEED\*) Green Building Rating System represents the U.S. Green Building Council's effort to provide a national standard for what constitutes a "green building." Through its use as a design guideline and third-party certification tool, LEED aims to improve occupant well-being, environmental performance and economic returns of buildings using established and innovative practices, standards and technologies.

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 panels are made from sustainable domestic, renewable raw materials. The wood is harvested from new forest growth that reaches maturity in 15 – 20 years. Tectum Inc. only purchases excelsior from companies that are part of the Sustainable Forestry Initiative (SFI).

Our products may contribute to the following LEED credit areas:

- EA Prerequisite 2: Fundamental Energy Performance
- EA Credit 1: Optimized Energy Performance
- MR Credits 2.1 and 2.2: Construction Site Waste Management
- MR Credits 4.1 and 4.2: Recycled Content
- MR Credit 7: Certified Wood
- EQ Prerequisite 3: Minimum Acoustical Performance
- EQ Credit 3.1 and 3.2: Construction IAQ Plans
- EQ Credit 4.1: Low-Emitting Materials, Adhesives and Sealants
- EQ Credit 4.4: Low-Emitting Materials, Composite Wood & Agrifiber Products
- EQ 10: Mold Prevention (LEED for Schools)
- EQ Credit 11: Low-Impact Cleaning and Maintenance Equipment Policy (LEED for Schools)
- ID 1 - 1.4: Innovation in Design

For complete information about Tectum products and LEED, please see our Marketing Bulletins M-81 (Tectum Products and LEED Certification) and M-83 (Tectum Products and LEED Q & A) or our Environmental Statement. All of these materials are available online at [www.tectum.com](http://www.tectum.com).

\*Trademark of The U.S Green Building Council

\*\*Trademark of Building Green, Inc.