

TECTUM Acousti-Tough[™] Ceiling System

The Tectum Acousti-Tough Ceiling System is a suspended acoustical ceiling specifically designed for multipurpose 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 helps reposition 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, $1\frac{1}{2}$ " height main runners and cross tees.









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TECTUM ACOUSTICAL PERFORMANCE TECTUM CLOUDS

SOUND ABSORPTION COEFFICIENTS									
Panel Type	125	250	500	1000	2000	4000	NRC	Mounting	
1" x 24" x 24" Lay-In	.40	.43	.35	.48	.60	.93	.45	E-400	
1 ½" x 24" x 24" Lay-In	.44	.43	.33	.49	.66	.77	.50	E-400	
2" x 24" x 24" Lay-In	.48	.46	.36	.55	.74	.79	.55	E-400	

TECTUM PRODUCT Panel Type Nominal Actual Edge Factory Light Flame Weight Thickness Size Detail Finish Reflectance Spread LBS/SF (inches) (inches) 1" 11⁄/2" 2" .75 / .60 0 - 25 Acousti-Tough 1, 1 1/2, 2 23 ³/₄ x 23 ³/₄, Square White, Natural, 1.65 2.55 3.50 23 3/4 x 47 3/4 Ceiling System Custom Colors

ENVIRONMENTAL INFORMATION

The wood fibers (excelsior) used in Tectum panels come from Wisconsin Aspen trees. The Wisconsin Aspen is a self-propagating type tree. When cut, a new tree will begin to grow back from its root structure. In addition, all Wisconsin Aspen used for Tectum is air-dried. No drying kilns are used. The wood is stored in ranks to age naturally. No chemicals are used in the production of any excelsior purchased by Tectum Inc. All excelsior used in Tectum products comes from a single source that is affiliated with both the Forest Stewardship Council (FSC) and the Sustainable Forestry Initiatives (SFI) programs. These programs are a comprehensive system of objectives and performance measures that integrate the perpetual growing and harvesting of trees with the protection of wildlife, plants, soil and water quality. All loggers are trained to adhere to FSC and SFI principles.

Magnesium oxide is mixed with magnesium sulfate (Epsom salts) to form the primary binder. The magnesium sulfate solution has been manufactured on site by

reclaiming waste materials since production began in 1949. The secondary binder is composed of sodium silicate and calcium carbonate (limestone). All of the water used in the manufacture of Tectum is captured and recycled.

TECTUM PRODUCTS AND LEED

- Tectum Inc. fully endorses the LEED Green Building Rating System. Our products may contribute to the following LEED credit areas: EA Prerequisite 2: Minimum **Energy Performance** EA Credit 1: Optimized Energy Performance MR Credit 2: Construction Site
- Waste Management
- MR Credit 4: Recycled Content
- MR Credit 5: Regional Materials
- MR Credit 6: Rapidly Renewable Resources
- MR Credit 7: Certified Wood
- EQ Prerequisite 3 (LEED for Schools): Minimum Acoustical Performance
- EO Credit 3.1 and 3.2: Construction IAO Plans

- EQ Credit 4.1: Low-Emitting Materials, Adhesives and Sealants
- EQ Credit 4.4: Low-Emitting Materials, Composite Wood & **Agrifiber Products**
- EQ Credit 10 (LEED for Schools): Mold Prevention
- EQ Credit 11 (LEED for Schools): Low-Impact Cleaning and Maintenance Equipment Policy ID Credit 1: Innovation in Design

Tectum products are listed in the GreenSpec Directory** published by Building Green from the editors of **Environmental Building News.**

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 O & A) or our Environmental Statement. All of these materials are available online at www.tectum.com/leed.

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