Tectum®
Ceiling & Wall Panels



Armstrong®
World Industries

Tectum®
Ceiling and Wall Panels

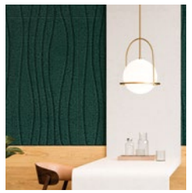
Tectum® ceiling and wall panels deliver the full package: rigorous sustainability credentials, UL® certified acoustic performance, Class A fire performance, and extensive design versatility, all in a single solution. As part of the Sustain® portfolio, Tectum® panels meet today's most stringent sustainability standards, backed by comprehensive testing and reporting aligned with industry best practices. With Tectum® ceiling and wall panels, architects and specifiers never have to choose between appearance, acoustic performance, and material integrity.



4 Made from Nature



5 Sustain Portfolio



6 Nature-Inspired Colors



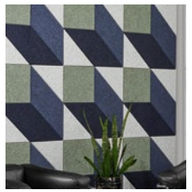
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SUSTAIN®
High Performance Sustainable Ceiling Systems

CLASSIFIED UL

TOTAL ACOUSTICS®
Sound Absorption (NRC) + Sound Blocking (CAC)

ProjectWorks®



Made from **Nature**

Tectum® products are made from natural fibers sourced from Wisconsin aspen, one of the most sustainably harvested trees of its kind. While the aspen's trunk lives for decades, its root system can endure for thousands of years, rapidly regenerating after harvest. Tectum panels are Forest Stewardship Council® (FSC) certified, ensuring the wood comes from responsibly managed forests.

These natural fibers and binders of salt water (Magnesium Oxide), sand (silicate), and limestone are formed are formed into distinctive, sound-absorbing ceiling and wall panels that bring the texture of nature indoors—ideal for spaces that demand sustainability, durability, and acoustic performance.

Primary Ingredients



Wood wool



Saltwater



Sand



Limestone

Armstrong Sustain® Portfolio Contributes to Better Spaces

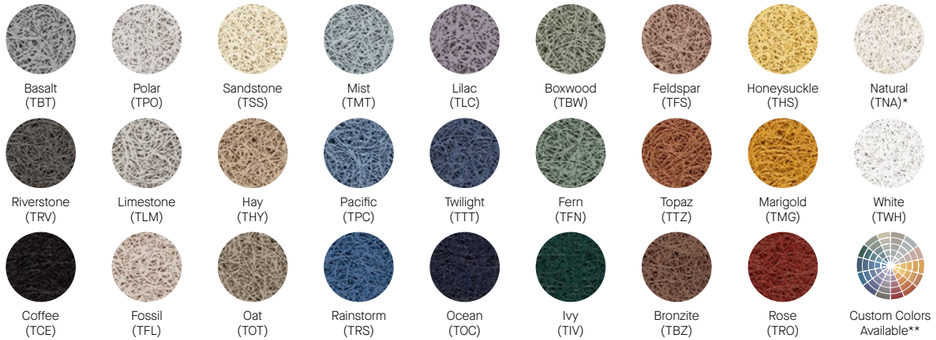
Tectum® panels and all products in the Sustain® portfolio share these features:

- Contributes to LEED v5
- Health Product Declarations (HPDs) for full material transparency
- Free of Red List chemicals as verified by Declare® labels
- Compliant with California Department of Public Health (CDPH) low-emissions standards
- Environmental Product Declarations (EPDs) that document environmental impact
- Supports compliance with the WELL Building Standard™



Tectum® Direct-Attach Ceilings (various thicknesses) in Fern

Nature-Inspired **Colors**





Tectum® DesignArt® – Lines High NRC Tegular Walls in Ivy

Tectum products can be field-painted up to 6 times without impacting acoustic or fire performance. All colors shown are pre-qualified to meet Sustain® portfolio requirements.

* Due to manufacturing processes, the face of Natural (TNA) panels may appear whiter than the back and edges plus rout lines on DesignArt® products.

** Custom, made-to-order colors must be evaluated if sustainability criteria is required. Lead time will increase.

Direct-Attach Fit the Bill

Install panels directly onto ceilings and walls to add durability and noise reduction to a wide variety of spaces with a sustainable solution.

- UL® Certified acoustics with testing and reporting aligned to industry best practices
- High NRC options feature a proprietary, factory-applied acoustical backing for enhanced, UL-certified sound absorption
- Part of the Sustain® and CleanAssure™ portfolios
- Excellent sound absorption, with NRC values up to 1.0 depending on mounting and assembly
- Ideal retrofit solution for improving noise control
- Direct-attach installation allows mechanical fastening to a wide range of substrates
- Install over trusses and I-beams to improve acoustics while preserving an exposed structural aesthetic
- Durable performance for heavy-use interiors, natatoriums, and covered exterior applications



Tectum® DesignArt® – Lines Direct-Attach Ceilings (various thicknesses) in Natural; Bullagastro Bar, Charlotte, NC

Case Study

Boys & Girls Club of Lancaster

Location
Lancaster, PA

Architect
ProjectWorks® Design and Pre-construction Service

Product
Tectum Direct-Attach Wall Panels, Tectum Shapes, and Soundsoak Baffles

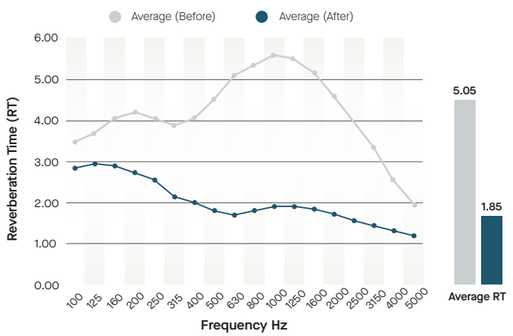


The Challange

The gymnasium at the Boys & Girls Club of Lancaster is in use every day, not only for sports activities but for a variety of other functions as well. Its acoustic environment, however, was not always ideal. Acoustical testing showed that reverberation time in the gym was 5.05 seconds, far above the 2.00 seconds or less recommended for this type of space. As Karen Schloer, the Club's chief executive officer, notes, *"The noise level was putting a real strain on the staff because they had to shout so often when trying to communicate with the kids."*

The Solution

To address the issue, more than 3,500 square feet of Tectum® Direct-Attach wall panels were installed on the gym's masonry walls. The panels were selected for their ability to absorb sound while withstanding repeated impacts from basketballs, volleyballs, and other athletic equipment.



Boys & Girls Club Gymnasium

Aesthetics

Two-inch-thick, 2' × 4' panels were installed in ribbon-like bands of white and a custom blue that reflects the Club's colors. The panels begin nearly 10 feet above the floor and extend an additional 18' up the wall. At each end of the gym, a large-scale re-creation of the Boys & Girls Club logo adds a striking visual element. The 15'-wide by 13'-high graphic of two interlocking hands was formed using custom triangular Tectum panels. White triangles are one inch thick, while blue triangles are 2" thick, creating depth and contrast against the wall. Two rows of twelve Soundsoak® Baffles were also installed at the center of the ceiling to provide additional sound absorption.

Acoustics

The 2" Direct-Attach Tectum wall panels deliver a Noise Reduction Coefficient (NRC) of 0.70. Post-installation acoustical testing of the combined treatment showed reverberation time was reduced to 1.85 seconds—a 63% improvement. According to Chief Operations Officer Scott McLellan,

"The difference is like night and day. The biggest takeaway is how much easier it is now for the staff to gain control of the space because the kids can hear directions much more clearly." Reflecting on the transformation, McLellan adds, "The staff simply didn't realize how bad it was because they didn't realize how good it could be."

Tectum® Create!™ Direct-Attach Fit the Aesthetic

Transform interior spaces with custom visuals achieved through hi-fidelity printing that works with the natural texture of Tectum® panels to add distinctive image depth and personality.

- 1" thick Tectum® Create!™ Direct-Attach panels are available in four standard designs, with the option to submit custom artwork
- Repeatable panel patterns allow designs to extend seamlessly across walls, vertically or horizontally
- Art meets acoustics, delivering sound absorption with NRC values up to 0.85 depending on mounting method
- Panel sizes include 23-3/4" × 48" and 47-3/4" × 96", featuring long and short beveled edges
- Direct-attach installation supports mounting to a wide variety of interior wall surfaces
- Part of the Sustain® and CleanAssure™ portfolios

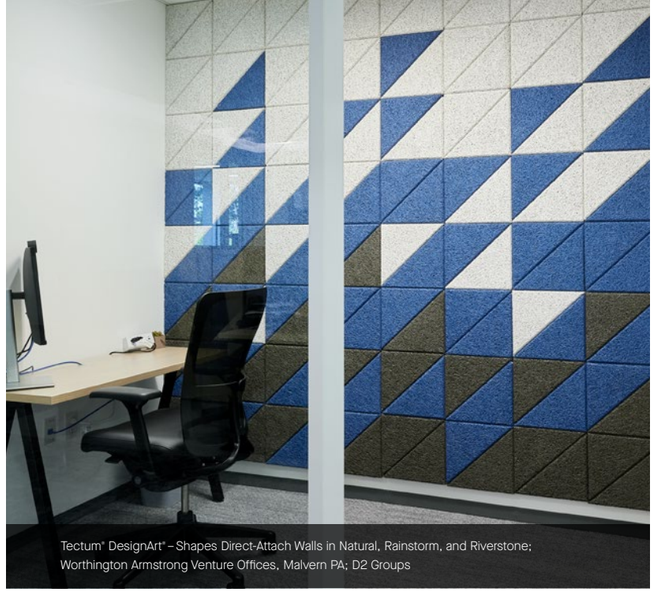


Tectum® Create!™ Direct-Attach Custom Ceiling

DesignArt®
Fit to Transform

Tectum DesignArt® ceiling and wall panels offer texture, shapes, designs, and colors with sustainable and acoustical performance.

- Mix and match 30 standard shapes and 29 standard line designs to create a custom visual expression
- 24 nature-inspired standard colors
- Over 100 pre-designed pattern options to bring energy and visual interest to interior spaces
- DesignArt® – Lines High NRC panels feature a proprietary, factory-applied acoustical backing for enhanced sound absorption
- DesignArt® – Lines Finale™ PB direct-attach panels include integrated furring strips and a plant-based binder infill for strong acoustic performance and significant labor savings
- Part of the Sustain® and CleanAssure™ portfolios
- UL® Certified acoustics, with testing and reporting aligned to industry-wide best practices
- Color-coordinated suspension systems available for a cohesive finished look
- Available in Tegular ceiling panels and Direct-Attach and Finale™ ceiling and wall panels



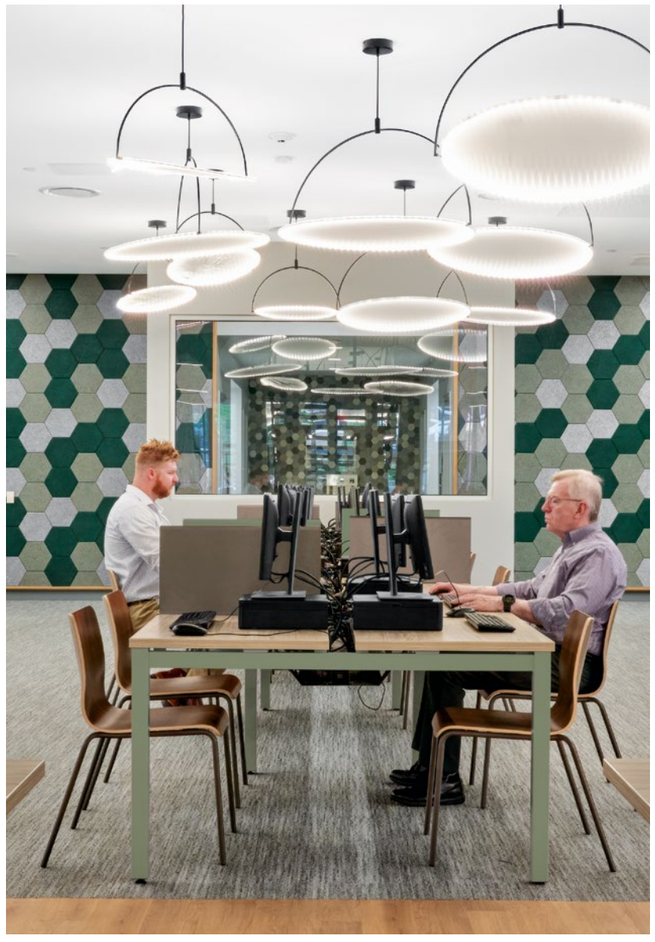
Tectum® DesignArt® – Shapes Direct-Attach Walls in Natural, Rainstorm, and Riverstone; Worthington Armstrong Venture Offices, Malvern PA; D2 Groups



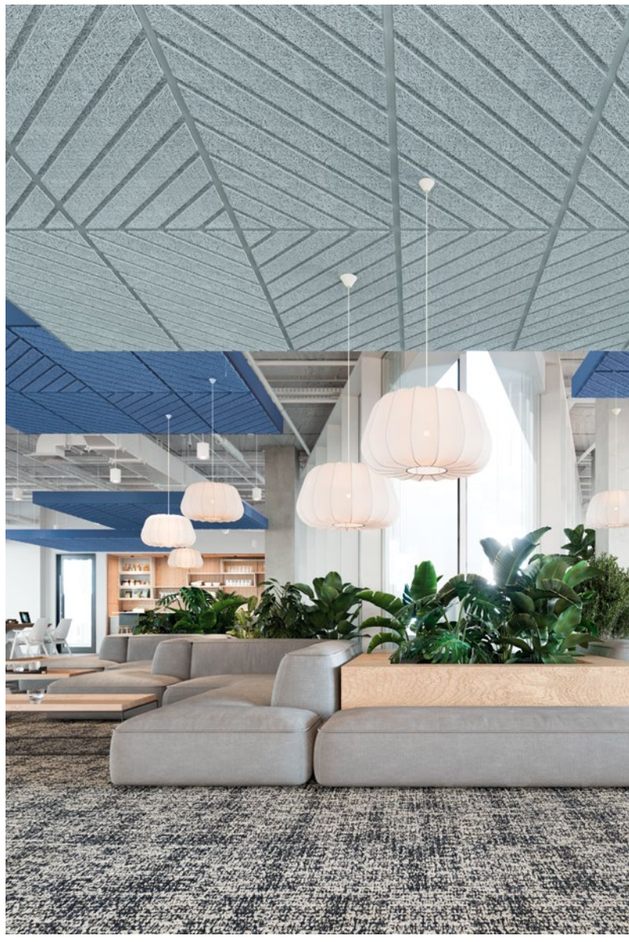
Tectum® DesignArt® – Lines Tegular Ceilings in Twilight; 801 Second Avenue Office, Seattle, WA; LMN Architects



Tectum® DesignArt® – Lines & Shapes Direct-Attach Walls



Tectum® DesignArt® – Shapes Direct-Attach Walls in Boxwood, Ivy, and Polar; Lancaster Public Library, Lancaster PA; RLPS Architects



Tectum® DesignArt® – Lines High NRC Tegular Ceilings in Mist and Rainstorm

Case Study

Our Town Brewery

Location
Lancaster, PA

Product
Tectum DesignArt – Shapes

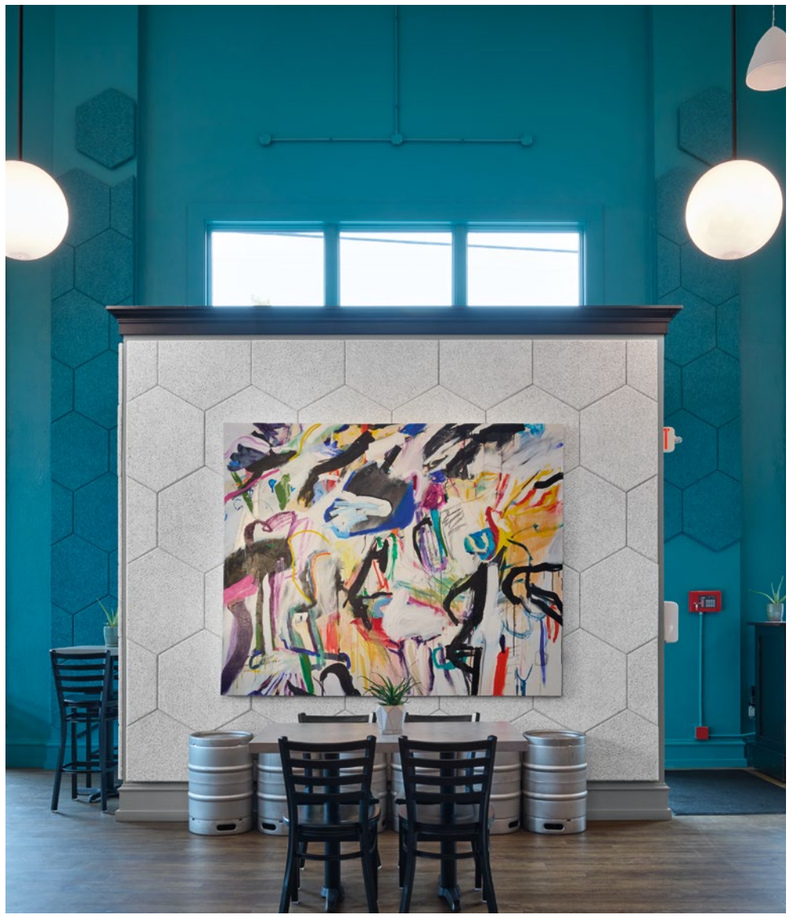




The Challenge

Our Town Brewery, a 2,700-square-foot pub housed in a former auto showroom, opened in September, 2020. According to owner Rob Tarves, a common complaint soon after opening was acoustics. “Patrons said they couldn’t hear themselves think,” he says. “In addition, we weren’t able to conduct trivia contests as we had hoped and had to limit our live music choices.” Improving acoustics while maintaining the brewery’s aesthetic thus became the challenge.

(continued on next page)



The Solution *(continued)*

To address the issue, Tarves sought expert guidance. “The space was full of flat surfaces, including picture windows on three sides,” explains Armstrong designer Marie DePaul. “In addition, the owner wanted to preserve the brewery’s 91-year-old tin ceiling, which limited the surfaces available for acoustic treatment. The challenge was to install enough sound control to make a noticeable difference while also contributing to the overall design of the space.”

Tectum® DesignArt™ – Shapes direct-attach wall panels were selected for the project. These durable panels feature a distinctive textured wood fiber appearance and are well suited for high-traffic interiors. Tectum DesignArt panels enhance interior spaces by combining texture, shape, pattern, and color with acoustic performance and sustainability. As part of the Sustain® portfolio, standard Tectum DesignArt panels meet today’s most rigorous sustainability standards.

The focal point of the space is now a 33-foot-long by 7-foot-high mosaic-style feature wall above the bar. Created using Tectum DesignArt – Shapes, the installation includes 48 full hexagons and 37 partial hexagons in Polar, along with three custom colors: light gray, medium gray, and dark gray. Additional blue-green hexagonal panels were installed on the side and front walls. In total, 167 two-foot-wide Tectum DesignArt hexagons were installed. The color palette was chosen to align with the pub’s brand identity while complementing the existing interior. “The ability to coordinate custom colors with a brand’s standards was key,” DePaul notes.

According to Tarves, installation was fast and efficient, aided by clearly labeled panels that identified their placement within the pattern. The panels were mounted on 1" thick furring strips, achieving a Noise Reduction Coefficient (NRC) of 0.85—absorbing 85 percent of the sound that strikes them.

Once complete, both patrons and staff immediately noticed the improvement. Acoustical testing confirmed the results, with reverberation time reduced from 4.94 seconds to 2.88 seconds—a 42 percent reduction. “The effectiveness of the panels was quickly evident,” says Tarves. “You could hear the difference as each panel was installed.”

> “We wanted the space to look great and control sound at the same time. The Tectum DesignArt panels delivered by combining aesthetics with acoustics.”
>
> Rob Tarves, Owner, Our Town Brewery

Lay-in & Tegular
Fit For Purpose

Durable and sustainable noise control for spaces requiring acoustics and design flexibility.

- Tectum® Lay-in and Tegular panels have UL® Certified acoustics with acoustical testing and reporting that align with industry-wide best practices
- Tectum High NRC panels have a proprietary, factory-applied acoustical backer
- Part of the Sustain® and CleanAssure™ portfolios
- Tegular panels have Total Acoustics® performance (NRC 0.90 and CAC 35) with infill panel (Item 1713)
- Durable for heavy-use interiors
- Lay-In and Tegular panels are part of ProjectWorks® design and pre-construction servce



Tectum® Tegular 24" × 48" panels in White with Prelude® XL® 15/16" Suspension System

Tectum® Finale™ PB
A Sound Fit

Built-in 1" thick furring pieces with factory-filled plant-based acoustical panels provide maximum sound control and install 2.5x faster than Direct-Attach for the same acoustic performance and reduced installation costs.

- Tectum Finale PB have UL® Certified acoustics with acoustical testing and reporting that align with industry-wide best practices
- Finale PB panels are manufactured with a plant-based binder infill
- Panels are sold by the piece – get the quantity you need without extra material
- Can be mechanically fastened to a wide variety of surfaces including masonry, drywall, wood, and more
- Excellent sound absorption – NRC up to 0.85 (mounting method dependent)
- Add routed lines and color to your design with Tectum® DesignArt™ – Lines Finale™ PB direct-attach panels
- Abuse-resistant for active spaces



Tectum® Finale PB Ceiling Panels

Blades & Baffles
Fit to the Max

Vertical elements control acoustics with a customizable linear visual.

- Upscale linear visual adds acoustics and aesthetics to any space
- Noise absorption up to 0.60 Sabins/SF
- Custom shapes and sizes available to meet your project needs
- Mounting channels available to extend panel length beyond four feet



Tectum® Blades custom acoustical panels; Cisco Umbrella, San Francisco, CA; Min Design

Shapes & Clouds
Flexible Fit

Shapes and Clouds offer design flexibility in a floating system.

- Noise absorption up to 0.50 Sabins/SF
- Wide variety of color options available
- Installs with Prelude® XL® 15/16" heavy-duty main beams
- Square or radius edges
- Lengths available up to 96" and can be suspended or direct-attached to drywall grid system
- Custom shapes available



Tectum® Shapes; Retail Me Not, Austin TX; STG Design

Tectum® Roof Deck
Built to Perform Where It Matters Most

For over 65 years, Tectum has provided reliable, sustainable, acoustical roof decking solutions to meet the commercial construction industry's needs. Tectum® roof deck solutions are available in a wide variety of system configurations to match the unique needs of your building design.

- Tectum I
- Tectum III & IIIP
- Tectum IIIW
- Tectum E & E-N
- Tectum V



Tectum® Roof Deck; Sun-N-Fun Wellness Center, Sarasota, FL; Carlson Studio Architecture

Fabric Walls
Twice the Function

Tectum® fabric walls deliver dual performance, combining effective sound absorption with a tackable surface for displays and bulletin boards.

- Abuse-resistant, fabric-wrapped panels attach directly to wall surfaces
- Excellent sound absorption, with NRC values up to 0.90
- Fast, straightforward installation using an internal spline mounting system
- Durable fabric options to suit a range of environments



Tectum Fabric Walls; Southland Christian Church, Lexington, KY

From Concept to **Completion**

ProjectWorks® design and pre-construction service provides complimentary assistance to help simplify ceiling and wall layouts and deliver comprehensive drawing packages that streamline the entire project process, from design and quoting through takeoffs and installation.

Whether used in standard layouts or highly customized applications, Tectum solutions integrate seamlessly with ProjectWorks to support clearer specifications, smoother coordination, and more predictable outcomes, helping teams deliver high-performing spaces with confidence.

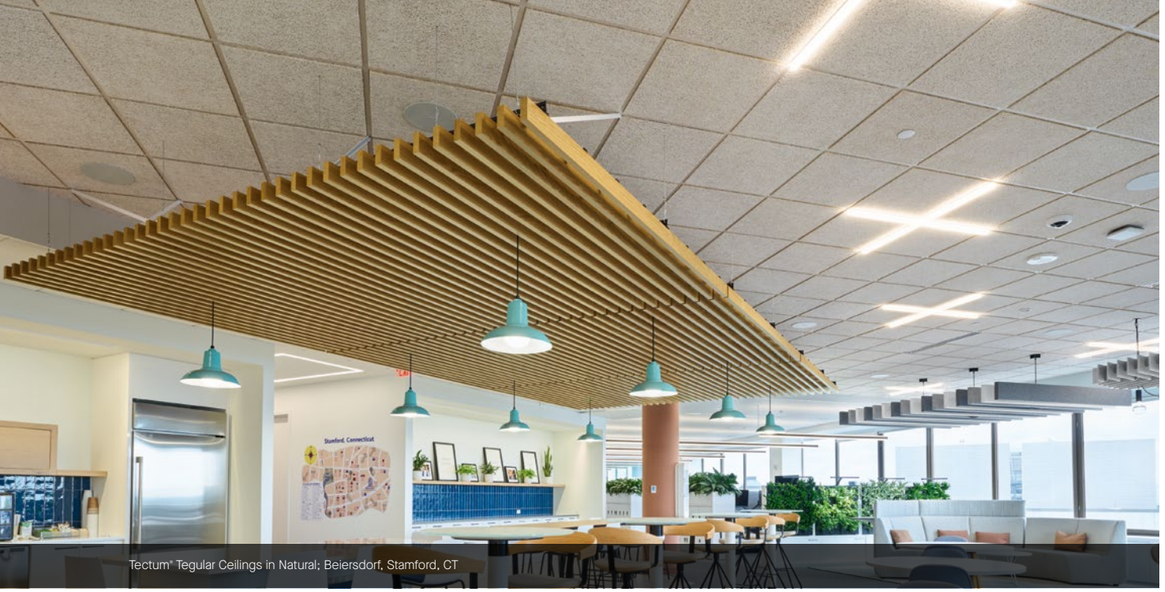


Tectum® Direct-Attach Ceilings in White; Page – Austin Office, Austin, TX; Page

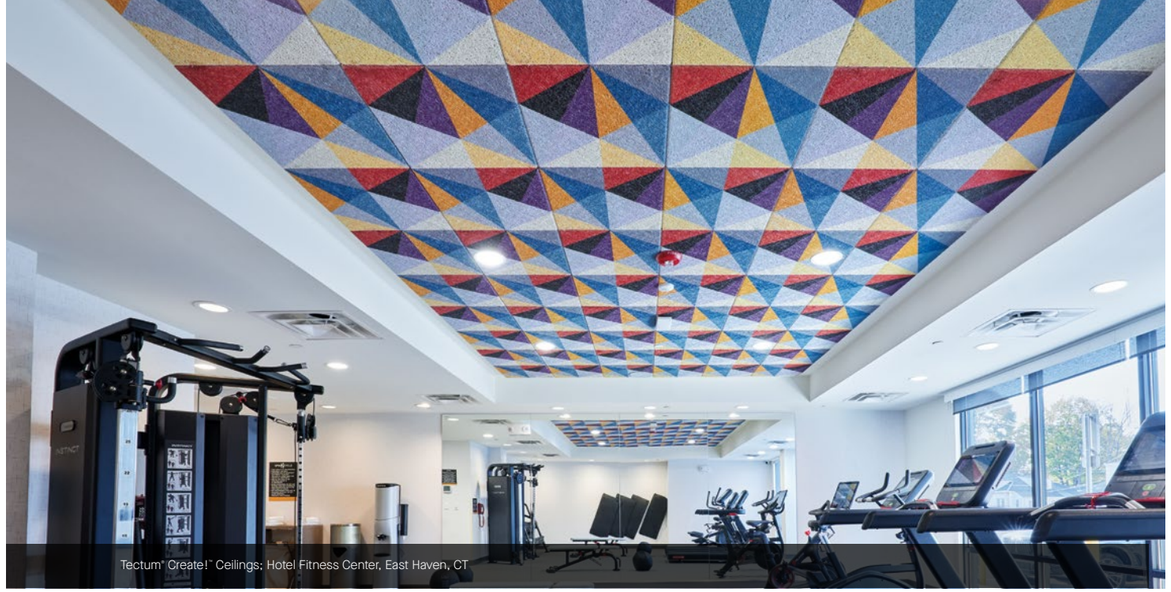


Acoustic Performance of Tectum® Panels

	Panel Thickness	Suspended (E400)	A	D-20	C-20	C-40	Weight (SF)
	1"	0.45	0.40	0.45	0.80	0.85	1.63 lbs/SF
	1.5"	0.60	0.55	0.60	0.90	0.95	2.53 lbs/SF
	2"	0.65	0.60	0.70	0.95	1.00	3.30 lbs/SF
High NRC	**1"**	0.85		0.60			
	1.5"						
	2"						
Finale	**1"**	0.95	0.80	0.85			3.1 lbs/SF
	1.5"						
	2"						
		Sabins					
Clouds	**1"**						1.63 lbs/SF
	1.5"	0.50					2.53 lbs/SF
	2"						3.30 lbs/SF
Blades	**1"**	0.40					1.63 lbs/SF
	1.5"	0.50					2.53 lbs/SF
	2"	0.60					3.30 lbs/SF
Lay-in & Tegular w/ 1713 Infill	**1"**	0.90/35					2.94 lbs/SF



Tectum® Tegular Ceilings in Natural; Beiersdorf, Stamford, CT



Tectum® Create!™ Ceilings; Hotel Fitness Center, East Haven, CT



Tectum® Direct-Attach Ceilings in White and Tectum® Finale™ PB Ceilings in White;
Maria Weston Chapman Middle School, Weymouth, MA; HMFH Architects, Inc



Tectum® Direct-Attach Ceilings in White; Page – Austin Office, Austin, TX; Page

Take the **Next Steps**

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The power of ProjectWorks® Design and Pre-construction Service

ProjectWorks offers cutting-edge collaborative design services to ensure your projects are completed with unmatched precision and efficiency.

Receive 2D layouts, material budgets, and detailed 3D Revit® models to speed up project timelines and improve coordination.

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Tectum® DesignArt® – Lines
Tegular Ceilings

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