



Acoustical Design:

EXPOSED STRUCTURE Acoustical Solutions

Preserve an industrial visual with acoustical solutions attached or applied directly to structure, or create a design statement that puts acoustical materials front and center.

We've got the broadest portfolio of ceiling and wall options to get the look you want and control noise, so you can achieve the best of both worlds. Optimize performance in the workplace, in educational facilities, and hospitality with the right aesthetics and acoustics for the space.



BLADES FeltWorks[®] Blades SoundScapes[®] Blades Tectum[®] Blades MetalWorks[™] Blades WoodWorks[®] Custom Blades

BAFFLES Soundsoak® Baffles Tectum® Baffles



CANOPIES

SoundScapes[®] Canopies MetalWorks[™] Canopies WoodWorks[®] Custom Canopies WoodWorks[®] Canopies Serpentina[®] Classic & Waves[™]

CLOUDS

AcoustiBuilt[™] Clouds FeltWorks[®] Open Cell Panels SoundScapes[®] Shapes Tectum[®] Clouds Tectum[®] Shapes Formations[™] Clouds DesignFlex[™] for Formations Clouds



DIRECT-TO-STRUCTURE

Ceiling & Wall Panels Tectum[®] Direct-Attach Tectum[®] Finale Lyra[®] PB Direct-Apply FeltWorks[®] Panels InvisAcoustics[™] Panels SoundScapes[®] Shapes

Ceiling Panels Optima[®] Capz[™] Panels MetalWorks[™] Capz[™] Panels

Wall Panels Soundsoak[®] Panels WoodWorks[®] Wall Panels WoodWorks[®] MicroPerf Panels



FeltWorks[®] acoustical panels; ► Gensler Charlotte Office, Charlotte NC

> ACOUSTICS INFORMATION Acoustical Terms

Acoustical Terms Design Comparisons Coverage Recommendations Project Support



VERTICAL

BLADES & BAFFLES



METALWORKS[™] Blades Pgs. 18-19



WOODWORKS Custom Baffles Pg. 9

HORIZONTAL

CANOPIES



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WOODWORKS® Custom Canopies Pg. 35

SOUNDSCAPES® Canopies

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DIRECT-TO-STRUCTURE Ceiling & Wall Panels



METALWORKS[™] Capz[™] Panels Pg. 49



WOODWORKS® Wall Panels Pg. 52 WOODWORKS Custom Wall Panels – Pg. 53



HIDDEN

INVISACOUSTICS[™] Panels Pgs. 46-47 SOUNDSOAK® Panels Pg. 50



LYRA® PB Direct-Apply Pg. 43 SOUNDSCAPES® Shapes Pg. 51 OPTIMA[®] Capz[™] Panels Pg. 48



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HIDDEN

FELTWORKS® Acoustical Panels Pgs. 44-45



FIBERGLASS

W00D

EXPOSED STRUCTURE ACOUSTICAL

SOLUTIONS

AT-A-GLANCE



SERPENTINA® Classic & Waves

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SOUNDSCAPES® Blades Pgs. 12-13 SOUNDSOAK® Baffles Pgs. 14-15

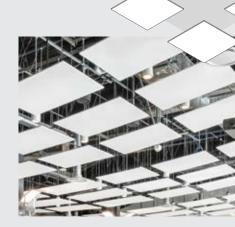








Panels Hidden Within the Structure



ONA

Layout solution shown represents **BETTER** reverberation time

25'			7 E	Visible xposed tructure 53%
	40'			
	DECK COVERAGE / NOISE REDUCTION	Reverbe	eration T	ime (RT)
	1,000 SF (25' x 40') Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	GOOD * RT=1.4s	BETTER** RT=1.0s	BEST** RT=0.6s
	# of 24" x 48" LYRA® PB Direct-Apply Panels	30	59	125
	% of Deck Coverage	24%	47%	100%

* Long RTs (\leq 1.4 sec) = for lively acoustic environments (auditoriums/hospitality) ** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)

Layout solution shown represents E

4			
25'			
<u>*</u>		4	0'—

DECK COVERAGE / NOISE REDUCTION

1,000 SF (25' x 40') Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet

of 48" x 48" SOUNDSCAPES® Shapes

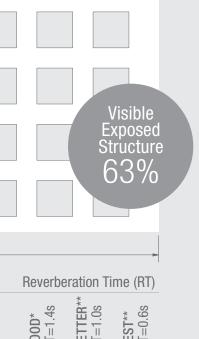
% of Deck Coverage

* Long RTs (\leq 1.4 sec) = for lively acoustic environn ** Short RTs (< 1 sec) = high-quality speech intelligi



Horizontal Panels as a **Design Element**

BETTER reverberation time



G00D RT=1.4	BETTE RT=1.	BEST* RT=0.(
12	24	49
19%	37%	78%

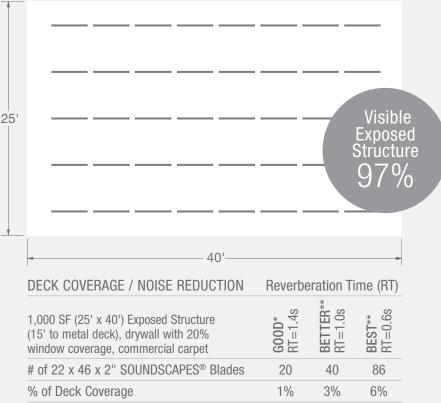
nents (auditoriums/hospitality) bility (classrooms/open plan spaces)



Vertical **Panels** as a Design Element

It's Up to You. They All Absorb Noise Effectively.

Layout solution shown represents **BETTER** reverberation time



* Long RTs (< 1.4 sec) = for lively acoustic environments (auditoriums/hospitality) ** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)

HORIZONTAL OR VERTICAL ACOUSTICAL TREATMENTS? LIFT HERE

ACOUSTICS & AESTHETICS

Get the look you want with the right acoustics for your next exposed structure project with a custom Reverberation Report. It will help you compare acoustical solutions and suggest coverage recommendations to meet the needs of your project. **armstrongceilings.com/reverbrequest**

For unique, one-of-a-kind ideas, contact the YOU INSPIRE[™] Solutions Center. We'll help you bring your ideas to life! armstrongceilings.com/youinspire



Custom MetalWorks™ Baffle ► Santa Anita Mall, Arcadia, CA You Inspire™ Solutions Center



SoundScapes[®] Shapes, WoodWorks[®] Grille, and Axis Stencil Pendant Light Fixtures; Freddie Mac Cafeteria, Reston, VA Project 308 Design, Alexandria, VA

OPEN UP THE POSSIBILITIES Multi-format

Take design to a new level that's uniquely yours by combining horizontal and vertical formats.

NOW YOU SEE IT NOW YOU DON'T

Discreetly add peace and quiet to exposed structure spaces, or add a pop of color with your treatments.

■ InvisAcoustics[™] Acoustical Panels



■ InvisAcoustics[™] Acoustical Panels



▼ MetalWorks[™] Blades – Classics[™]; South by Southwest Headquarters, Austin, TX; Pei Cobb Freed & Partners, Gensler, Austin, TX





Blades & Baffles ALL ABOUT THE LINES

Straight or wavy, parallel or intersecting, monochromatic or multi-colored – these vertical elements control noise with panache.



▲ WoodWorks[®] Custom Baffles ceiling system; Washington University Brown School, St. Louis, MO



▲ FeltWorks[®] Blades Peaks & Valleys The Stone Independent School, Lancaster, PA

FeltWorks[®] Blades Ebbs & Flows



FeltWorks® Blades Peaks & Valleys; The Stone Independent School, Lancaster, PA

Aluminum Suspension Bar Factory Hook Cutout

FELTWORKS® Blades QUIET IN A KIT

Quiet spaces and redefine the visual plane, changing the topography of the ceiling while adding warmth to spaces.

- Installs with Aluminum Suspension Bar and aircraft cables
- NRC (E400 mounting) 0.85
- 3/8" thick blades provide a sleek linear visual – 3 standard profiles and a variety of blade heights offer dramatic visuals
- Part of the Sustain[®] portfolio, meeting the most stringent industry sustainability standards today

FELTWORKS® BLADES NOISE REDUCTION

	Rever	Reverberation Time (RT)			
1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	GOOD* RT=1.4s	BETTER** RT=1.0s	BEST** RT=0.6s		
# of 10 x 96 x 3/8" Blades	50	98	207		
% of Deck Coverage	1%	2%	5%		
* Long BTs (< 1 4 sec) - for live	ly acoustic	environr	nents		

* Long RTs (≤ 1.4 sec) = for lively acoustic environments

(auditoriums/hospitality) ** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)

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SoundScapes[®] Blades vertical panels and custom WoodWorks[®] Grille wall panels Lake Stevens Elementary School, Lake Stevens, WA; NAC Architecture, Seattle, WA

SOUNDSCAPES® Blades alt abou THE SPACE

Reduce noise with new layout designs, coupled with size, shape, and color to allow for a unique look for any space.

Individual Suspension Using . Hanging Kit

SOUNDSCAPES® BLADES NOISE REDUCTION

	Rever	Reverberation Time (RT)			
1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	G00D* RT=1.4s	BETTER** RT=1.0s	BEST** RT=0.6s		
# of 22 x 46 x 2" Blades	20	40	86		
% of Deck Coverage	1%	3%	6%		
* Long RTs (≤ 1.4 sec) = for live	ly acoustic	environr	nents		

(auditoriums/hospitality) ** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)

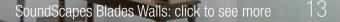
- Flexible installation from the deck, ceiling, drywall, suspension system, or on a wall
- Excellent sound absorption 1.38 Sabins/SF
- Over 20 standard sizes with custom shape and color options available
- Seismic-tested

Gloi

Attachment to Suspension System



- SoundScapes[®] Blades wall application Armstrong Campus, Lancaster, PA
- SoundScapes[®] Blades vertical panels in Wavelengths Interstate Drywall Corporate Office, Lyndhurst, NJ



SOUNDSOAK[®] Baffles SIGHT & SOUND

Love the look and control the noise with easy-to-install acoustical baffles.

Soundsoak[®] Baffles custom panel sizes in sailcloth fabric Northern Rockies Regional Recreation Centre, Fort Nelson, BC, Canada

- Available in a variety of sizes and standard, custom, and sailcloth fabrics
- Sleek, adjustable aircraft cable installation
- Coordinate Soundsoak® Baffles with Soundsoak fabric wall panels

SOUNDSOAK® BAFFLES NOISE REDUCTION

	Reverberation Time (R		
1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	G00D* RT=1.4s	BETTER** RT=1.0s	BEST** RT=0.6s
# of 24 x 48 x 2" Baffles	14	27	58
% of Deck Coverage	1%	2%	4%
* Long BTs (< 1.4 sec) - for live	ly acoustic	environr	nente

Baffle Hanging Kit

Soundsoak® Baffle

(auditoriums/hospitality) ** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)



Soundsoak® Baffles and Soundsoak® wall panels; Martin Luther King Elementary, Lancaster, PA



TECTUM[®] Blades & Baffles MADE TO FIT

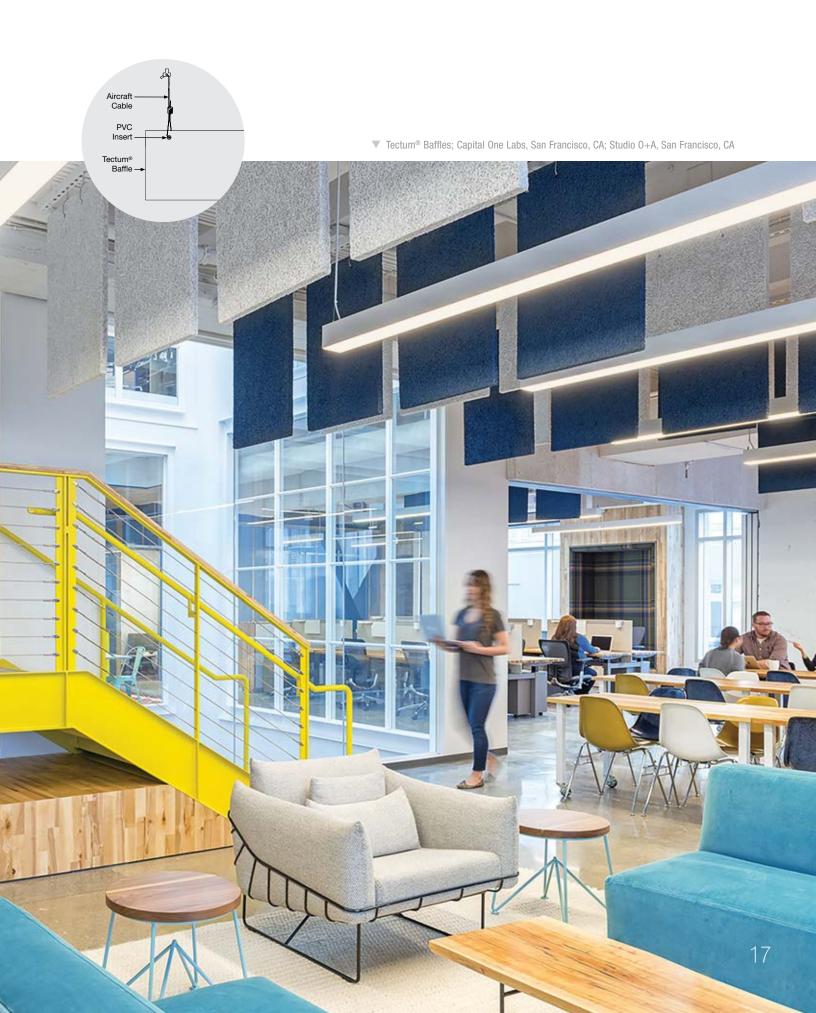
Customize the edges, heights, and thickness of panels for the acoustics and aesthetics you need.

- Living Product Challenge Imperative Certified by International Living Future Institute $^{\otimes}-1\,^{\prime\prime}$ thick panels in White and Natural only
- Upscale linear visual adds acoustics and aesthetics to any space
- Custom shapes and sizes available to meet your project demands
- Suspend with aircraft cable or hanger wire

TECTUM® BLADES & BAFFLES NOISE REDUCTION

	Rever	beration	Time (RT)	
1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	GOOD* RT=1.4s	BETTER** RT=1.0s	BEST** RT=0.6s	
# of 24 x 48 x 1" Blades & Baffles	75	148	312	
% of Deck Coverage	3%	5%	10%	
* Long RTs (\leq 1.4 sec) = for lively acoustic environments				

(auditoriums/hospitality) ** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)



METALWORKS[™] Blades – Classics ANYTHING BUT ORDINARY

Create a look that visually tells your story. Durable and flexible.

- Join or cut panels for creative design layouts and easy installation

 Standard blade sizes in multiple lengths with either 4" depth and 1" width, or 6" depth with 1" or 2" widths

- 1" or 2" wide custom blade options: Length: 12" – 120" Depth: 4" – 12" (in 2" increments)
 - Six standard Effects[™] Wood Looks finishes and three standard colors
 - Panel spacing is variable for all standard items to accommodate a variety of design and acoustical needs

METALWORKS[™] BLADES NOISE REDUCTION

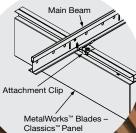
Reverberation Time (RT)			
G00D* RT=1.4s	BETTER** RT=1.0s	BEST** RT=0.6s	
90	179	377	
6%	12%	25%	
	66 G00D* RT=1.4s	6000* RT=1.4s BETTER** RT=1.0s	

* Long RTs (\leq 1.4 sec) = for lively acoustic environments (auditoriums/hospitality) ** Short RTs (< 1 sec) = high-quality speech intelligibility

** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)



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▲ MetalWorks[™] Blades – Classics[™] in Effects[™] finish, Fine Fissured[™] acoustical panels installed above blades; NN, Inc. at Waverly Hub, Charlotte, NC IA Interiors Architects, Charlotte, NC – You Inspire[™] Solutions Center

Canopies & Clouds TWO-FACED ACOUSTICS

Both sides of the panels soak up the sound. Select from a wide range of standard and custom shapes, colors, perforations, and materials.

▼ Serpentina[®] Waves[™]; University of Florida Chemical Biology Building, Gainesville, FL; Stantec, Phoenix, AZ



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▲ Custom SoundScapes® Shapes; Gardere Wynne Sewell, LLP, Dallas, TX; Gensler, Dallas, TX – You Inspire™ Solutions Center

▼ AcoustiBuilt[™] seamless acoustical ceiling system, Vincennes University, Vincennes, IN





ACOUSTIBUILT[™] Seamless Clouds ABOVE AND BEYOND

ACOUSTIBuilt[™]--∕ Drvwall Screw

Smooth in appearance, these acoustical clouds rise to the occasion.

- Installed system achieves acoustical performance of up to 1.33 Sabins/SF
- The look of drywall with the benefits of Total Acoustics[®] and Sustain[®] performance.
- Similar installation and finishing methods as drywall ceilings; easier to install than acoustical plaster – and at lower cost
 Installs with most drywall compatible
- light fixtures, including: Axis, USAI, XAL, and Price

ACOUSTIBUILT[™] CLOUDS NOISE REDUCTION

	Reverberation Time (RT)			
1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	G00D* RT=1.4s BETTER** RT=1.0s BEST** RT=0.6s			
Area of AcoustiBuilt [™] Clouds	248 SF 483 SF N/A	-		
% of Deck Coverage	25% 48% N/A			

* Long RTs (≤ 1.4 sec) = for lively acoustic environments (auditoriums/hospitality)
** Short RTs (< 1 sec) = high-quality speech intelligibility</p>

** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)

FELTWORKS[®] **Open Cell Panels** EATE DRAMA WITH DIMENSION

Kitted, acoustical, and dimensional panels with a geometric, cellular visual.

- Kits available in 3 designs: Ebbs & Flows, Peaks & Valleys, and Rectangular panels (6" or 12" depths)
- Kits can be installed as individual square or rectangular clouds, or interlinked to create a wall-to-wall installation
- Get custom looks from standard products using easy-to-specify-and-order kits with short lead times
- NRC (E400 Mounting) 0.80
- Part of the Sustain® portfolio
- Made from up to 60% post-consumer recycled PET fibers.

FELTWORKS® OPEN CELL PANELS

	Reverberation Time (RT)		
1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	G00D* RT=1.4s	BETTER** RT=1.0s	BEST** RT=0.6s
# of 96" x 96" Clouds	3	6	14
% of Deck Coverage (vert. face vs. floor)	1%	2%	4%

* Long RTs (≤ 1.4 sec) = for lively acoustic environments

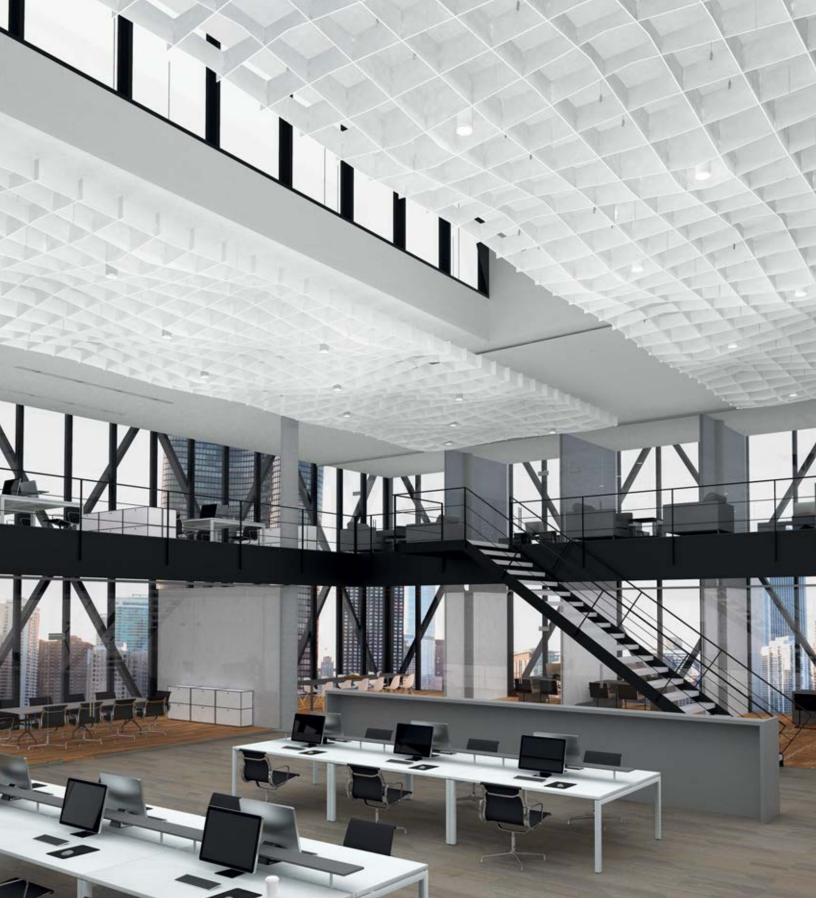
(auditoriums/hospitality) ** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)

Hanging Kit Detail

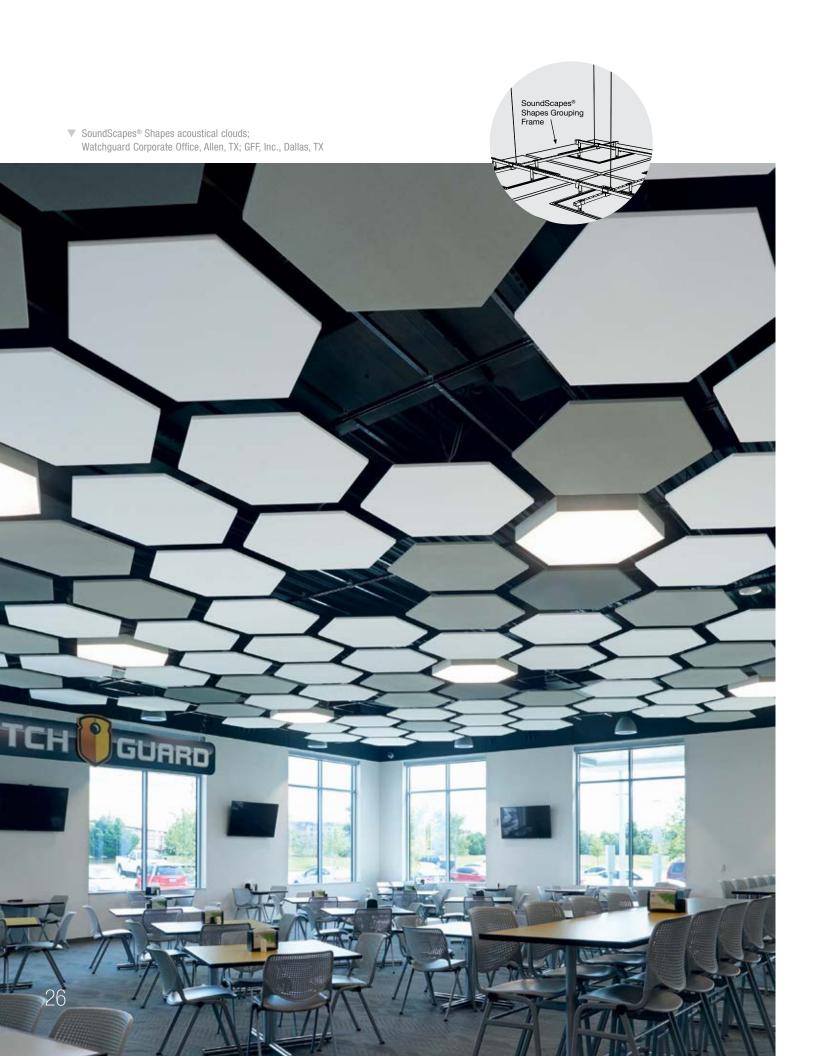








▲ FeltWorks[®] Open Cell Peaks & Valleys panels





SOUNDSCAPES Shapes sljal M

Deliver acoustics in playful installations with angles, layers, shapes, sizes, and colors.

- parallelogram shapes with 60 degree frame alignment kit
 - Address acoustics and aesthetics with a superior engineered solution up to 1.18 Sabins/SF
 - Quick to install from the deck, drywall, suspension system, or on a wall in adjustable heights and angles
 - Grouping Frame Kit provides superior rigidity, perfect alignment, minimizes hanging points, ensures consistent panel spacing, and is engineered for use in DEF seismic zones.

SOUNDSCAPES® SHAPES NOISE REDUCTION

	Reverberation Time (RT)			
1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	G00D* RT=1.4s	BETTER** RT=1.0s	BEST** RT=0.6s	
# of 48" x 48" Shapes	12	23	49	
% of Deck Coverage	19%	37%	78%	
* Long BTs (< 1.4 sec) - for live	ly acoustic	environr	nents	

 * Long RTs (≤ 1.4 sec) = for lively acoustic environments (auditoriums/hospitality)
 ** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)

SOUNDSCAPES® Canopies HANGIN' AROUND

Floating acoustics, placed exactly where you need them most.

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- Hill and Valley shape canopies
- Aesthetically define spaces and enhance acoustics
- Ideal in spaces where viewed from above and below, such as mezzanines, since clouds are fully finished on all sides
- Quick to install from the deck, ceiling, drywall, suspension system
- Canopy kits include easy-to-install cable and hardware

SOUNDSCAPES® CANOPIES NOISE REDUCTION

Densities and the Theory (DT)

	Reverberation Time (RT)			
1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	G00D* RT=1.4s	BETTER** RT=1.0S	BEST** RT=0.6s	
# of 72" x 48" Canopies	9	17	37	
% Coverage (horz. face vs. floor)	22%	41%	88%	
* Long DTo (cd 4 ooo) for lively	occuptio	onvironn	aanta	

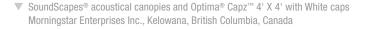
 * Long RTs (≤ 1.4 sec) = for lively acoustic environments (auditoriums/hospitality)
 ** Short RTs (< 1 sec) = high-quality speech intelligibility

 Short RTS (< T sec) = high-quality speech intelligibilit (classrooms/open plan spaces)

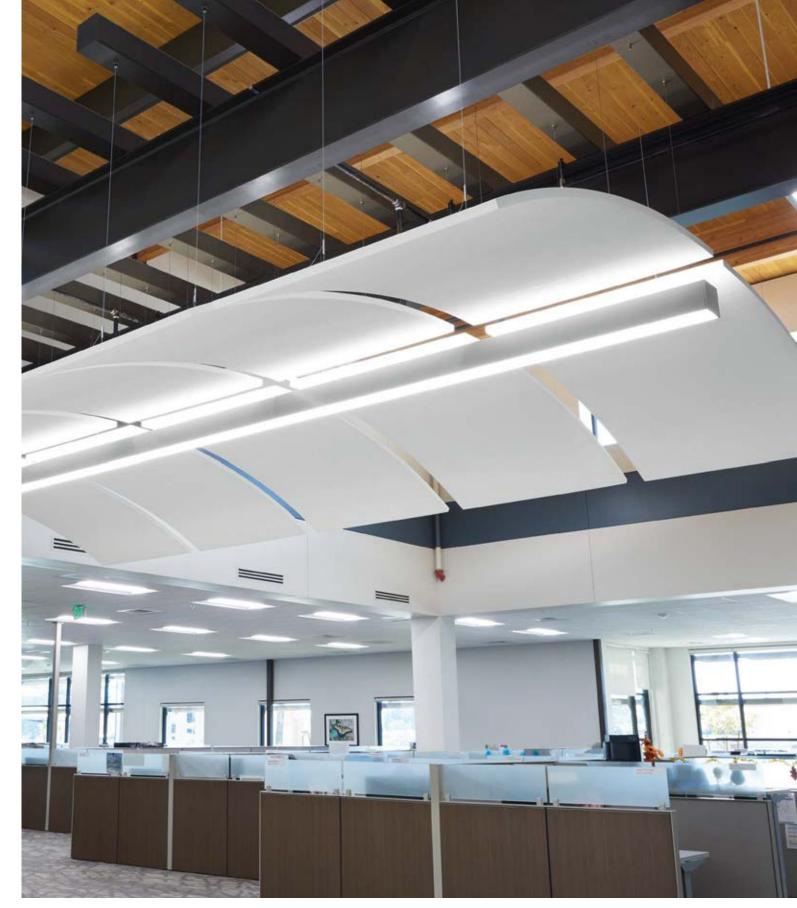
> Adjustable Aircraft Cable

> > 11

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SoundScapes® acoustical canopies; United Health Administrative Office Building, Fresno, CA; Neenan Archistruction, Fort Collins, CO



TECTUM® Shapes EXPRESSIVE

Standard or custom shapes to meet your specifications.



- Living Product Challenge Imperative Certified by International Living Future Institute[®] – in White and Natural only
- Wide variety of color options available or field paint on site without impacting acoustics
- Custom shapes, colors, and sizes for any project need
- Durable and flexible, installs on walls or ceilings

TECTUM® SHAPES NOISE REDUCTION

Reverberation Time (RT)		
G00D* RT=1.4s	BETTER** RT=1.0S	BEST** RT=0.6s
23	44	N/A
37%	70%	N/A
	53 GOOD * RT=1.4s	ccG00D*RT=1.4sFBBETTER**RT=1.0s

* Long RTs (\leq 1.4 sec) = for lively acoustic environments (auditoriums/hospitality) ** Short RTs (< 1 sec) = high-quality speech intelligibility

(classrooms/open plan spaces)

- Floating cloud system in multiple square and rectangle sizes; custom sizes available
- Panel sizes in 1-1/2" or 2" panel thickness; widths: 23-3/4" to 47-3/4"; lengths: up to 96"
- Available in White, Natural, and custom colors or field paint on site without impacting acoustics.
- Easy to install with sleek, adjustable aircraft cable hanging kit

TECTUM® CLOUDS NOISE REDUCTION

1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	Reverberation Time (RT)		
	GOOD* RT=1.4s	BETTER** RT=1.0s	BEST** RT=0.6s
# of 48 x 48 x 1-1/2" Clouds	23	44	N/A
% of Deck Coverage	37%	70%	N/A

* Long RTs (≤ 1.4 sec) = for lively acoustic environments

(auditoriums/hospitality) ** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)

TECTUM® Clouds FLOATING NOISE CONTRO

Acoustical performance and design flexibility.

▼ Tectum[®] Clouds



FORMATIONS[™] Clouds OUT OF THE BOX

Floating circular or rectangular clouds with crisp Axiom[®] trim pre-cut and ready to install.

- Easy-to-specify and install cloud system with pre-cut components and a wide range of specialty options like wood and metal

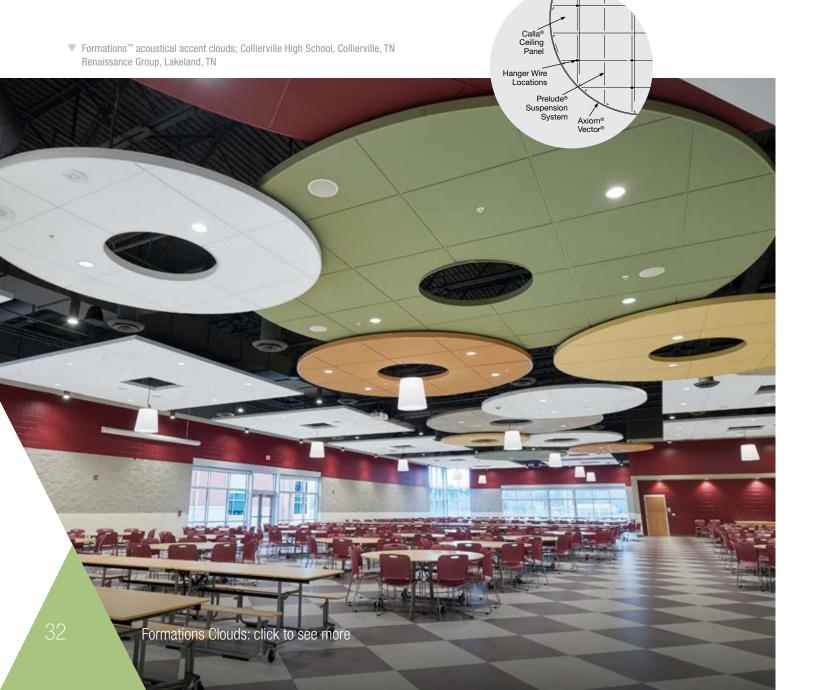
- Reduce noise levels in open spaces

FORMATIONS[™] CLOUDS NOISE REDUCTION

	Reverb	Reverberation Time (RT)		
1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	G00D* RT=1.4s	BETTER** RT=1.0s	BEST** RT=0.6s	
# of 96" x 96" Ultima® Squares	4	8	N/A	
% of Deck Coverage	26%	51%	N/A	

* Long RTs (≤ 1.4 sec) = for lively acoustic environments (auditoriums/hospitality)

** Short RTs (< 1 sec) = high-quality speech intelligibility
(classrooms/open plan spaces)</pre>





Suspension System Vector®





- DesignFlex[™] for Formations[™]
 Acoustical Clouds options include shapes, sizes, and colors in 9 standard cloud kits
- Shapes and Square/Rectangle panel options available in popular Calla®, Lyra®, Ultima®, and Optima®
- Easy to specify and install with pre-cut suspension and trim components in a kit
- Shaped lighting options available from our DesignFlex[™] partners

▲ DesignFlex[™] for Formations[™] acoustical cloud with Shapes Pattern SH-FC-5

DESIGNFLEX[™] for FORMATIONS[™] MIX & MATCH

Floating shaped clouds with geometric panels ready to install.



High School, Spartanburg, SC; McMillan Pazdan Smith, Spartanburg, SC

, MetalWorks™ Canopy Valley

METALWORKS Canopies RIPPLE EFFECT

It's easy to improve acoustics, brighten, and add movement to any space.

- Easy to clean and maintain
- Great aesthetic above and below
- Easy installation
- Available in a variety of microperf options

METALWORKS[™] CANOPIES NOISE REDUCTION

1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	Reverberation Time (RT)		
	G00D* RT=1.4s	BETTER** RT=1.0s	BEST** RT=0.6s
# of 72" x 48" Canopies	7	14	30
% of Deck Coverage	17%	34%	72%

* Long RTs (\leq 1.4 sec) = for lively acoustic environments

(auditoriums/hospitality) ** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)

- Choose from Hill, Valley, or S-curve dual radius canopies
- Real wood and bamboo veneers
- Perforated option available for sound absorption on Hill and Valley canopies
- Concealed mounting hardware for a clean look above and below
- ev WoodWorks® Custom Cababilities

WOODWORKS® CANOPIES NOISE REDUCTION

	Rever	Reverberation Time (RT)		
1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	G00D* RT=1.4s	BETTER** RT=1.0s	BEST** RT=0.6s	
# of 72" x 48" Canopies	12	23	N/A	
% of Deck Coverage	38%	74%	N/A	

* Long RTs (≤ 1.4 sec) = for lively acoustic environments (auditoriums/hospitality)

(auditoriums/hospitality) ** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)

WOODWORKS® Canopies ACOUSTICAL WARMTH

Now with more options than ever with WoodWorks custom capabilities.



SERPENTINA® Clouds & Canopies GREAT CURVES

Curved metal clouds combine easy installation with striking visual power and acoustical performance.

- Maximum design flexibility in both Classic and Waves
- Standard panel colors plus four metallic paints; custom colors available
- Install perforated clouds with acoustical infill panels for maximum sound absorption

SERPENTINA® CLOUDS NOISE REDUCTION

	Rever	beration	Time (RT)
1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	G00D* RT=1.4s	BETTER** RT=1.0s	BEST** RT=0.6s
# of 96" x 96" Clouds (R042 perforation with fleece and polybag infill panel)	3	6	12
% of Deck Coverage	19%	38%	77%
* Long RTs (< 1.4 sec) = for live	lv acoustic	environr	nents

(auditoriums/hospitality) ** Short RTs (< 1 sec) = high-quality speech intelligibility

(classrooms/open plan spaces)





Serpentina® Classic; Iron Forge Education Center, Boiling Springs, PA; Crabtree, Rohrbaugh & Associates, Philadelphia, PA

DIRECT-TO-STRUCTURE Flat Panels for Ceilings & Walls SOUND DOWN

Add aesthetics and durability for your designs – in just about as many configurations as you can imagine. And there's an installation option for your project.



▲ Tectum[®] Panel Art wall panels





▼ InvisAcoustics[™] Direct-Attach application, Maine Beer Company, Freeport, Maine

TECTUM® **Direct-Attach** Panels |N| + | | |(A|R| +INSTRUCTION

Durable, sustainable noise control to withstand the crowds.

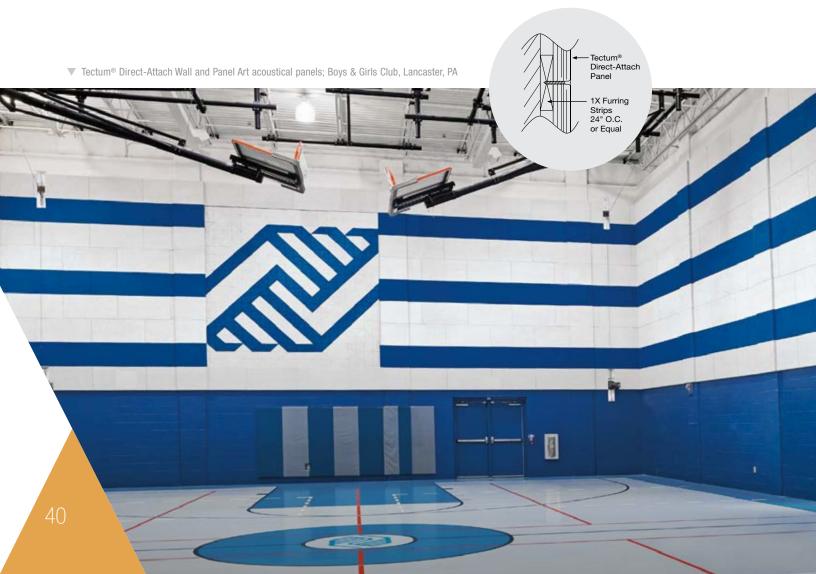
- Quick, easy install to wall, deck, or I-Beam using furring strips or truss fastening kit for truss installations
- Meet ANSI S12.60 requirements for physical education spaces
- Unlimited design flexibility cut or paint panels in the field or factory to meet your design needs
- Durable for heavy-use interiors

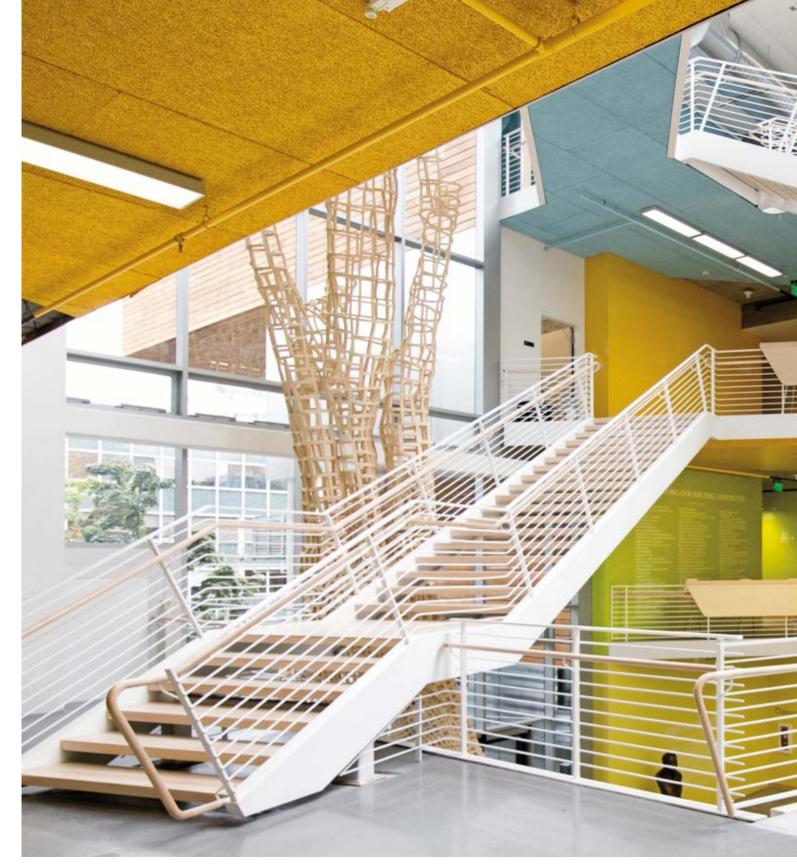
😥 - Living Product Challenge Imperative Certified by International Living Future Institute[®] – 1" panels in White and Natural only

TECTUM® PANELS NOISE REDUCTION

	Reverberation Time (RT)		
1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	G00D* RT=1.4s BETTER** RT=1.0s BEST** RT=0.6s		
Area of 1" Tectum® Direct-Attach Panels	214 SF 420 SF 900 SF		
% of Deck Coverage	21% 42% 90%		
* Long RTs (≤ 1.4 sec) = for live	ly acoustic environments		

(auditoriums/hospitality) Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)





Tectum® Direct-Attach ceiling acoustical panels; Portland State University School of Business at Karl Miller Center, Portland, OR; SRG Partnership; Behnisch Architekten, Stuttgart, Germany

Integrated Acoustical Furring Insulation Strips

 Tectum[®] Finale Direct-Attach application; Financial Services Company, US; Unispace, San Diego, CA



42

 Composite panel design combines Tectum[®] panel, acoustical infill, and furring strips in one for maximum sound control and fast, efficient installation
 Excellent sound absorption up to 1.0 NRC

- Durable for heavy-use interiors

TECTUM® FINALE PANELS N	IOISE REDUCTION
	Reverberation Time (RT
1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	GOOD* RT=1.4s BETTER** RT=1.0s BEST** RT=0.6s
Area of 1" Tectum® Finale Panels	210 SF 410 SF 890 SF
% of Deck Coverage	21% 41% 89%
 * Long RTs (≤ 1.4 sec) = for lively (auditoriums/hospitality) ** Short RTs (< 1 sec) = high-qua (classrooms/open plan spaces) 	

TECTUM® Finale Direct-Attach Panels CAMOUFLAGE

Easy-to-install acoustic control for an understated, inconspicuous look.

LYRA® PB Direct-Apply Panels QUICK & EASY

Great acoustics, simple installation.

- Easy installation on ceilings and walls with recommended adhesive to concrete, plaster, drywall and metal decking
- Made with a plant-based binder and part of the Sustain® portfolio of products
- High sound absorption up to NRC 0.95
- Made-to-order sizes and colors available
- For areas that need direct attachment rather than adhesive, consider Optima[®] Capz[™]

LYRA® PB DIRECT-APPLY PANELS NOISE REDUCTION

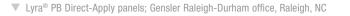
	Reverberation Time (RT		Time (RT)
1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	G00D* RT=1.4s	BETTER** RT=1.0s	BEST** RT=0.6s
Area of 1" Lyra® PB Direct-Apply Panels	240 SF	470 SF	1,000 SF
% of Deck Coverage	24%	47%	100%

* Long RTs (< 1.4 sec) = for lively acoustic environments (auditoriums/hospitality)

(auditoriums/hospitality) ** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)

Adhesive

/ Lyra[®] Direct-Apply Panel



FELTWORKS[®] **Acoustical Panels** INSTANT SOFTNESS

Absorb up to 90% of the sound that strikes them.

- Quick and easy retrofit with three installation methods

- No need to field-finish cut edges with color throughout panels
- Part of the Sustain® ceiling portfolio

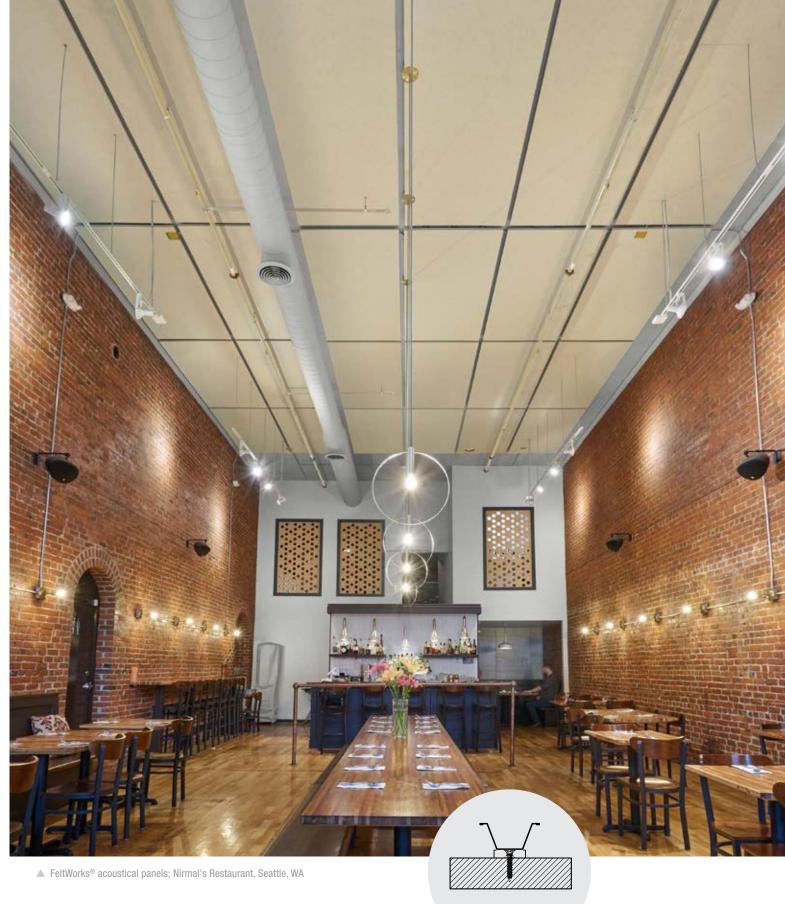
FELTWORKS® PANELS NOISE REDUCTION

	Reverberation Time (RT)		
1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	G00D* RT=1.4s	BETTER** RT=1.0s	BEST** RT=0.6s
# of 1" thick FeltWorks Panels (7/8" Hat Channel with Magnets) # of 48 x 96 x 1" Panels	8	15	31
% of Deck Coverage	26%	48%	99%
* Long PTs (< 1.4 soc) - for lively	occuptio	onvironn	nonto

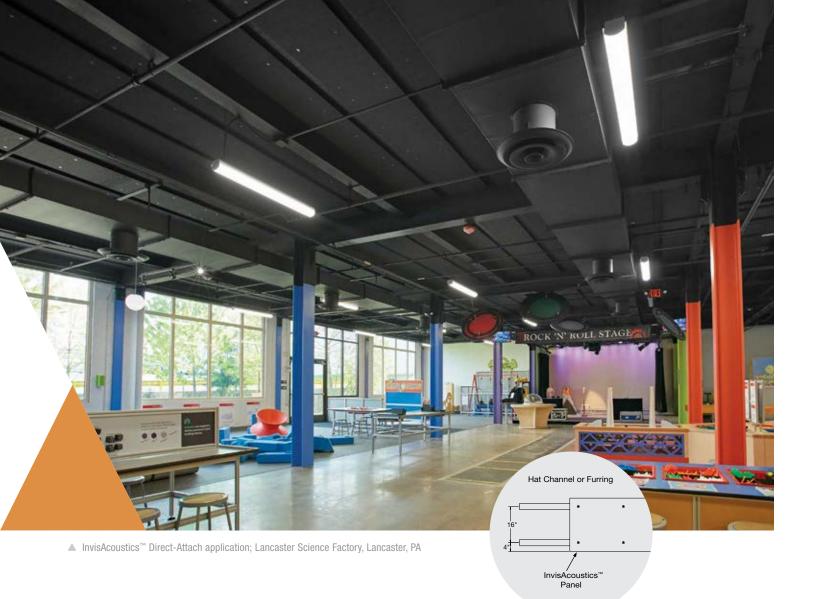
Long RTs (≤ 1.4 sec) = for lively acoustic environments

(auditoriums/hospitality) Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)





Magnet Attachment to Hat Channel



INVISACOUSTICS[™] Panels ABRACADABRA

Empower your exposed structure design while bringing quiet to your space.

- Direct-apply to concrete, plaster, and drywall ceilings and walls with recommended adhesive
 - Foolproof, all-in-one screw allows fast installation without danger of overdriving and damaging the panel
 - Quick, easy install to wall, deck, or I-Beam using hat channel or furring strips truss fastening kit for truss installations
 - Field paintable option can be sprayed same color as the deck

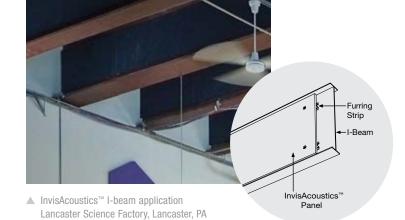
INVISACOUSTICS[™] PANELS NOISE REDUCTION

	Reverb	eration T	Time (RT)
1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	GOOD* RT=1.4s	BETTER** RT=1.0s	BEST** RT=0.6s
Area of 3/4" InvisAcoustics™ Panels	280 SF	550 SF	N/A
% of Deck Coverage	28%	55%	N/A

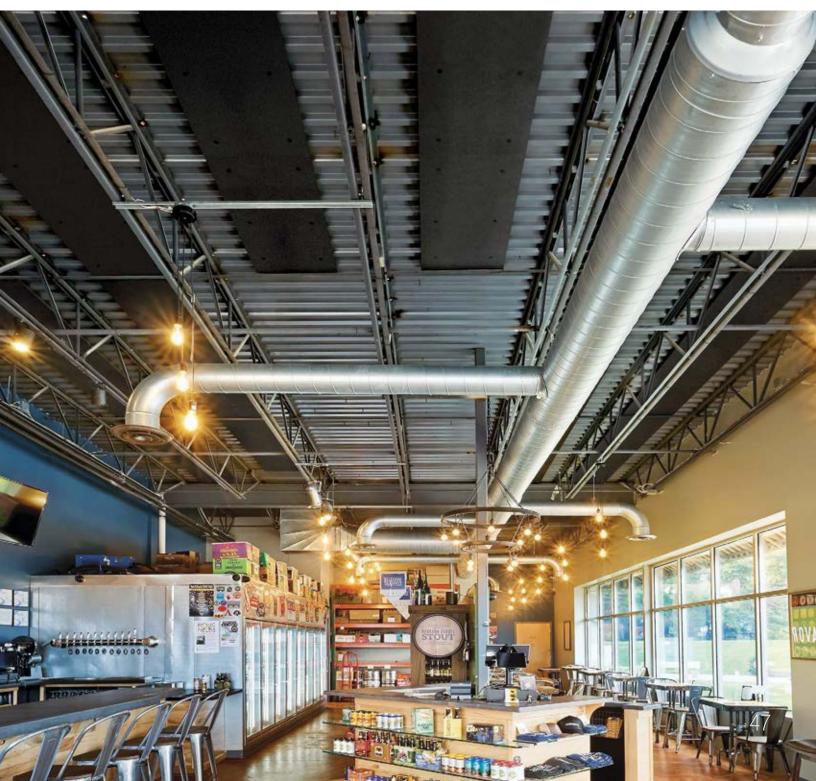
* Long RTs (≤ 1.4 sec) = for lively acoustic environments (auditoriums/hospitality)

*** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)





▼ InvisAcoustics[™] Direct-Attach application; Bert's Bottle Shop, Millersville, PA



OPTIMA® Capz[™] SNEAKY

Large format acoustical panels quiet spaces.

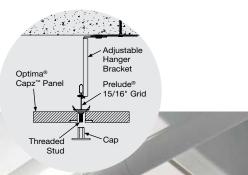
- 48" x 96" panels for sleek, monolithic look
- Easy alignment suspension system
- Panels can be designed in long runs or grouped based on the acoustical needs
- Absorbs up to 90% of the sound that strikes it

OPTIMA[®] CAPZ[™] NOISE REDUCTION

	Reverberation Time (RT)		
1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	G00D* RT=1.4s	BETTER** RT=1.0s	BEST** RT=0.6s
Area of Optima [®] Capz [™] Panels	190 SF	370 SF	800 SF
% Coverage (horz. face vs. floor)	19%	37%	80%

 * Long RTs (≤ 1.4 sec) = for lively acoustic environments (auditoriums/hospitality)
 ** Short RTs (< 1 sec) = high-quality speech intelligibility

** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)



▼ Optima[®] Capz[™] panels; Atlantic Packaging, Charlotte, NC; Redline Design Group, Charlotte, NC





- Easy installation and durability plus acoustics
- Panels can be designed in long runs or grouped based on the acoustical needs
- Custom colors available

METALWORKS [™] CAPZ [™] NO	ISE REDUCTION		
1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	Reverberation Time (RT)		
	GOOD* RT=1.4s BETTER** RT=1.0s BEST** RT=0.6s		
Area of MetalWorks [™] Capz [™] Papels	200 SF 400 SF 850 S	ŝF	

- % of Deck Coverage 20% 40% 85%
- * Long RTs (≤ 1.4 sec) = for lively acoustic environments (auditoriums/hospitality)
 ** Short RTs (< 1 sec) = high-quality speech intelligibility
- ** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)

METALWORKSTM CapzTM SLEEK

Capz[™] accent hardware pairs with MetalWorks[™] panels and standard grid.



SOUNDSOAK® Acoustical Wall Panels S | | CS

Make your mark, and control sound.

- Easy-to-install wall system available in a variety of standard and custom fabrics

Z-Clips

ENTON SUBURBA

- Create your own design

Wa

- Variety of impact resistant acoustical wall panels available for high-traffic and high-abuse areas
- Available in multiple standard and custom sizes and shapes

SOUNDSOAK® PANELS NOISE REDUCTION

1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	Reverberation Time (RT)		
	GOOD* RT=1.4s	BETTER** RT=1.0s	BEST** RT=0.6s
# of 24 x 96 x 1" Panels	16	32	68
% of Wall Coverage	13%	26%	56%

 * Long RTs (≤ 1.4 sec) = for lively acoustic environments (auditoriums/hospitality)
 ** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)

- Installs on walls or ceilings
- Quick to install from the deck, ceiling, drywall, suspension system, or on a wall in adjustable heights and angles
- Available in multiple standard and custom sizes

SOUNDSCAPES® PANELS NOISE REDUCTION

1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	Rever	Reverberation Time (RT)		
	GOOD* RT=1.4s	BETTER** RT=1.0s	BEST** RT=0.6s	
# of 48" x 48" Hexagon Panels	20	38	82	
% of Wall Coverage	14%	26%	56%	

* Long RTs (\leq 1.4 sec) = for lively acoustic environments (auditoriums/hospitality)

** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)

SOUNDSCAPES® Shapes SOAK UP THE EXCITEMENT

Reduce noise and add character.



WOODWORKS® Wall Panels ADD ANOTHER DIMENSION

Accentuate one or more walls while improving sound quality.

- Install on the wall, the ceiling, or create 90° angled ceiling-to-wall transitions
- Perforated panel with acoustical backing improves sound quality and reduces noise within a space
- Shorter lead times and lower cost than custom millwork

WOODWORKS® WALL PANELS NOISE REDUCTION

	Reverberation Time (RT)
1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	G00D* RT=1.4s BETTER** RT=1.0s BEST** RT=0.6s
Area of WoodWorks® W4 Walls w/Infill	214 SF 424 SF 920 SF
% of Wall Coverage	11% 22% 47%
* Long RTs (≤ 1.4 sec) = for livel	y acoustic environments

(auditoriums/hospitality) ** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)





WoodWorks® custom microperforated ceiling and wall panels and Grille panels; Armstrong Campus, Lancaster, PA





WOODWORKS® Custom Panels WARM WOOD WITH ACOUSTICS

Perforated wood backed with hidden acoustics.

 SoundScapes[®] Blades vertical panels Wacom at Pearl West, Portland, OR
 SRM Architecture, Portland, OR

BRING DOWN THE NOISE

IN EXPOSED STRUCTURE SPACES

How do non-traditional shapes and forms affect noise levels? These products absorb sound from all sides to reduce reverberation times. So placement in about 20-50% of the space gives you impactful acoustical performance to Bring Down the Noise.

EXPOSED STRUCTURE ACOUSTICAL DESIGN

Acoustical absorption is important to:

- Reduce noise levels and reverberation time
- Enhance speech intelligibility

Reverberation Time (RT)

Reverberation Time (RT) is the persistence of sound in an enclosed space after the source of the sound has stopped. The level of the reverberant sound within a room is dependent upon both the volume of the room and the amount of sound absorption installed within the room, such that small hard-surfaced rooms are "louder" than large well-treated rooms.

With our TechLine Reverberations Reports you can calculate approximate reverb times for your space as you design. Compare the times of your product choices to find out which ones will work best with your space and design.

Rules of thumb:

Short RTs (< 1 sec) are preferred for high-quality speech intelligibility in classrooms and open plan office spaces. Long RTs (\leq 1.4 sec) are preferred for lively acoustic environments such as auditoriums and hospitality.

Acoustical solutions, like Canopies, Clouds, Baffles, or Blades vertical elements installed in a way that covers 20% to 50% of the ceiling, will provide significant reverberation time improvement to an exposed structure installation, since sound is absorbed from both the front and back of the panels. Blades are especially effective as the required coverage is much smaller to get the RT reduction because most of the surface area is vertical.

Direct-to-structure solutions on decks or walls absorb sound from one side.

Our Acoustical Experts have done the math for you on the product recommendation charts on pages 52 and 53. You'll be able to compare products to see the recommended coverage for GOOD, BETTER, or BEST performance levels to reduce reverberation times.

Comparison: Exposed Structure Options Versus Continuous Ceiling

Example:	Exposed Structure	Blades & Baffles	Direct-To-Deck	Canopies & Clouds	Wall Panels	Continuous Ceiling		
1,000 SF Exposed Structure (40' x 25'), 15' to deck, drywall with 20% window coverage and commercial carpet	No Treatment (0% Coverage)	SoundScapes® Blades (4% ceiling coverage, 196 SF of material)	InvisAcoustics™ (50% coverage)	SoundScapes® Shapes (50% coverage)	SoundScapes® Wall Panels (50% coverage)	Continuous Optima® Ceiling (100% Coverage)		
Deck	Exposed Structure	30 Blades (10 x 94 x 2")	62 Panels (24 x 48 x 3/4")	32 Shapes 48" x 48" Squares	2 Walls	Suspended 60" Below Deck		
Absorption	0	1.38 Sabins/SF	0.75 NRC	1.49 Sabins/SF	0.70 NRC	0.90 NRC		
Reverberation Time (RT)	2.4 sec 1.2 sec 1.1 sec 0.8 sec 0.3 sec 0.5 sec Short RTs (< 1 sec) are preferred for high-quality speech intelligibility in classrooms and open plan office spaces. Long RTs (≤ 1.4 sec) are preferred for lively acoustic environments such as auditoriums and hospitality. 0.5 sec							
Reverberation Time Improvement	-	50%	54%	67%	87%	79%		
Noise Reduction	-	-2.0 dB	-2.6 dB	-3.6 dB	-7.5 dB	-4.5 dB		

REDUCE REVERBERATION TIME & IMPROVE ACOUSTICS RECOMMENDATIONS

For each of the products featured in this brochure, here are recommendations for the square-foot coverage suggested to reduce reverberation times at three different levels:

BEST levels are recommended to meet specific standards, such as ANSI S12.60 in classrooms, LEED®, and WELL Building Standard[™].

BETTER levels are appropriate for collaborative spaces like cafeterias, corridors, and lobbies where speech privacy is not critical.

GOOD levels are suitable for casual spaces such as music performance and hospitality.

The examples that follow demonstrate how much product is needed in order to treat a sample 1,000 square-foot area to create quieter spaces.

Contact your Armstrong Ceilings Representative or TechLine for a detailed reverberation time calculation for your project. A custom Reverberation Report will provide you with recommended acoustical solutions or request your own by visiting armstrongceilings.com/reverbrequest.

		Model Room Reverberation T			ime (RT)	
	BLADES & BAFFLES	1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	G00D RT=1.4s	BETTER RT=1.0s	BEST RT=0.6s	
	FeltWorks [®] Blades Pages 10-11	Area of Blades	333 SF	653 SF	1380 SF	
		# of 10 x 96 x 3/8" Blades	50	98	207	
		% of Deck Coverage	1%	2%	5%	
a the second	SoundScapes [®] Blades Pages 12-13	Area of Blades	141 SF	281 SF	604 SF	
		# of 22 x 46 x 2" Blades	20	40	86	
1411		% of Deck Coverage	1%	3%	6%	
	Soundsoak® Baffles Pages 14-15	Area of Baffles (Sailcloth)	112 SF	216 SF	464 SF	
		# of 24 x 48 x 2" Baffles	14	27	58	
and a second second		% of Deck Coverage	1%	2%	4%	
A CONTRACTOR OF THE OWNER	Tectum [®] Blades	Area of Blades	600 SF	1,184 SF	2,496 SF	
	Page 16	# of 24 x 48 x 1" Blades	75	148	312	
a sector and a sector a		% of Deck Coverage	3%	5%	10%	
	Tectum [®] Baffles Page 17	Area of Baffles	600 SF	1,184 SF	2,496 SF	
		# of 24 x 48 x 1" Baffles	75	148	312	
CONTRACTOR AND		% of Deck Coverage	3%	5%	10%	
	MetalWorks [™] Blades Pages 18-19	Area of Blades	240 SF	477 SF	1,005 SF	
		# of 4 x 96 x 1" Blades	90	179	377	
		% of Deck Coverage	6%	12%	25%	
	CLOUDS & CANOPIES					
7/1	AcoustiBuilt [™] Clouds	Area of Clouds	248 SF	483 SF	N/A	
	Pages 22-23	% of Deck Coverage	25%	48%	N/A	
ull	FeltWorks [®] Open Cell Panels Pages 24-25	Area of Cloud Material	384 SF	768 SF	1,792 SF	
HAN AN TO REAL MERCHANNER		# of 96" x 96" Clouds	3	6	14	
SHARE AND THE		% of Coverage (vert. face vs. floor)	1%	2%	4%	
	SoundScapes [®] Shapes Pages 26-27	Area of Shapes	192 SF	368 SF	784 SF	
		# of 48" x 48" Shapes	12	23	49	
House a state has		% of Deck Coverage	19%	37%	78%	
	SoundScapes [®] Canopies	Area of Canopies	216 SF	408 SF	888 SF	
	Pages 28-29	# of 72" x 48" Canopies	9	17	37	
		% of Coverage (horz. face vs. floor)	22%	41%	88%	

		Model Room	Reverberation Time (RT)		
	CLOUDS & CANOPIES (CONTINUED)	1,000 SF Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	GOOD RT=1.4s	BETTER RT=1.0s	BEST RT=0.6s
	Tectum [®] Shapes & Clouds	Area of Clouds	368 SF	704 SF	N/A
	Pages 30-31	# of 48 x 48 x 1-1/2" Clouds	23	44	N/A
		% of Deck Coverage	37%	70%	N/A
	Formations [™] Clouds &	Area of Clouds	256 SF	512 SF	N/A
	DesignFlex [™] for Formations [™] Clouds	# of 96" x 96" Ultima®	4	8	N/A
	Pages 32-33	% of Deck Coverage	26%	51%	N/A
	MetalWorks [™] Canopies	Area of Canopies (P2)	168 SF	336 SF	720 SF
	Page 34	# of 72" x 48" Canopies	7	14	30
I I R. SHERLING		% of Deck Coverage	17%	34%	72%
THE A	WoodWorks® Custom Canopies	Area of Canopies	384 SF	736 SF	N/A
	Page 35	# of 72" x 48" Canopies	12	23	N/A
ألك والملمهام ا		% of Deck Coverage	38%	74%	N/A
	Serpentina [®] Waves™ Pages 36-37	Area of Clouds (R062 w/infill)	192 SF	384 SF	768 SF
		# of 96" x 96" Clouds	3	6	12
		% of Deck Coverage	19%	38%	77%
	DIRECT-TO-STRUCTURE	CEILING & WALL PANELS			
How	SoundScapes [®] Shapes	Area of Wall Panels	266 SF	505 SF	1,090 SF
	Page 51	# of 48 x 48 Hexagon Panels	20	38	82
		% of Wall Coverage	14%	26%	56%
	Tectum [®] Direct-Attach Panels Pages 40-41	Area of 1" thick Tectum® Panels (C-20 Mount)	222 SF	435 SF	928 SF
		% of Wall Coverage	14%	28%	59%
	Tectum [®] Finale	Area of 2" thick Tectum® Finale Panels (A Mount)	210 SF	410 SF	890 SF
	Page 42		21%	41%	89%
All and a second se		% of Deck Coverage			
31	Lyra [®] PB Direct-Apply	Area of Ceiling Panels (A Mount)	240 SF	470 SF	1000 SF
	Page 43	# of 24 x 48 x 1" Panels	30	59	125
		% of Deck Coverage	24%	47%	100%
	FeltWorks [®] Acoustical Panels Pages 44-45	Area of 1" thick FeltWorks Panels (7/8" Hat Channel with Magnets)	256 SF	480 SF	992 SF
The second second		# of 48 x 96 x 1" Panels	8	15	31
Constant of the second		% of Deck Coverage	26%	48%	99
Inizida	InvisAcoustics [™] Panels Pages 46-47	Area of Ceiling Panels (D-40)	280 SF	550 SF	N/A
	rayes 40-47	# of 24 x 48 x 1" Panels	35	69	N/A
	a da - 1911 -	% of Deck Coverage	28%	56%	N/A
	Optima [®] Capz [™] Panels Page 48	Area of Ceiling Panels	190 SF	370 SF	800 SF
EL PARANA	Faye 40	% of Coverage (horz. face vs. floor)	19%	37%	80%
	Metalworks [™] Capz [™] Panels	Area of Ceiling Panels	200 SF	400 SF	850 SF
	Page 49	% of Deck Coverage	20%	40%	85%
	Soundsoak [®] Acoustical	Area of Wall Panels (Fabric)	256 SF	512 SF	1,088 SF
	Wall Panels Page 50	# of 24 x 96 x 1" Panels	16	32	68
	raye 50	% of Wall Coverage	13%	26%	56%
	WoodWorks® Wall Panels	Area of W4 Wall Panels	214 SF	424 SF	920 SF
	Page 52	% of Wall Coverage	11%	22%	47%
With The Party of					

N/A indicates that the option is not recommended to achieve a BEST level reverberation time. "% of Deck Coverage" is defined as the visible deck area covered by a ceiling solution.

Near Right: SoundScapes[®] Shapes exposed structure solution Fermilab Office, Batlava, IL; Gastinger, Walker, Harden Architects, Chicago, IL

> Far Right: Calla[®] ceiling panels with ► Total Acoustics[®] performance Fermilab Office, Batlava, IL; Gastinger, Walker, Harden Architects, Chicago, IL

RIGHT ACOUSTICS FOR THE RIGHT SPACES

No matter what type of space you are designing, Armstrong has a broad range of solutions to meet your acoustic and aesthetic needs. Bring down the noise in exposed structure spaces with Clouds & Canopies, Blades & Baffles, and Direct-to-Structure solutions – or get Total Acoustics[®] performance with wall-to-wall ceilings where quiet concentration and privacy are needed.





TAKE THE NEXT STEP



Customer Service Representatives 7:45 a.m. to 5:00 p.m. EST Monday through Friday

TechLine – Technical information, detail drawings, CAD design assistance, installation information, other technical services – 8:00 a.m. to 5:30 p.m. EST, Monday through Friday. FAX 1 800 572 8324 or email: techline@armstrongceilings.com

armstrongceilings.com/exposedstructure

Latest product news

Standard and custom product information

Online catalog

CAD and Revit® files

A Ceiling for Every Space® Visual Selection Tool

Product literature and samples – express service or regular delivery

Contacts - reps, where to buy, who will install

YOU INSPIRE[™] SOLUTIONS CENTER

email: solutionscenter@armstrongceilings.com armstrongceilings.com/youinspire

Design Assistance

Collaborative design Detail drawings Specifications Planning and budgeting

Pre-construction Assistance

Layout drawings for standard and premium products

Project installation recommendations

Contractor installation assistance

you inspire[™]

solutions center

Need acoustical help with your exposed structure

space? Get a custom reverberation time report at

armstrongceilings.com/reverbrequest

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armstrongceilings.com/exposedstructure

On the cover: ► SoundScapes® Blades vertical panels Forcepoint Emerald Conference Room, Austin, TX Gensler, Charlotte, NC



