

Inspiring Great Spaces®





Whether making a design statement that puts acoustical materials front and center, or opting for a more open, exposed structure look with a direct-attach solution, we've got hundreds of options to help you get the look you want and control noise, too.

SoundScapes® Shapes Acoustical Clouds in White ► Twitter, San Francisco, CA; Interior Architects, San Francisco, CA

SPOTLIGHT™ ACQUISTICS



BLADES™ & BAFFLES
SoundScapes® Blades™
MetalWorks™ Blades™
Tectum® Blades
Soundsoak® Baffles
Tectum Baffles

SPOTLIGHT™ ACOUSTICS



CLOUDS & CANOPIES

SoundScapes® Shapes
Formations™

Tectum® Shapes & Clouds
MetalWorks™ Canopies
WoodWorks® Canopies
Serpentina®

DIRECT-TO-DECK
TICS ACOUSTICS



DIRECT-ATTACH
InvisAcoustics™ Basics
Capz™
SoundScapes® Blades™
Tectum® Direct-Attach

Tectum® Finale

ACOUSTIC INFORMATION



Find specific coverage recommendations to get both aesthetics and acoustics for your design and contact us for a detailed reverberation time calculation specifically for your project.



Acoustical Design: Structure Spaces

Whether making a design statement that puts acoustical materials front and center, or opting for a more open, exposed structure look with a direct-attach solution, we've got hundreds of options to help you get the look you want and control noise, too.

> SoundScapes® Shapes Acoustical Clouds in White Twitter, San Francisco, CA; Interior Architects, San Francisco, CA



BLADES™ & BAFFLES SoundScapes® Blades™ MetalWorks[™] Blades[™] Tectum® Blades Soundsoak® Baffles Tectum Baffles

SPOTLIGHT™ ACOUSTICS SPOTLIGHT™ ACOUSTICS



Serpentina®

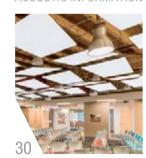
DIRECT-ATTACH **CLOUDS & CANOPIES** InvisAcoustics™ Basics SoundScapes® Shapes Formations™ Tectum® Shapes & Clouds SoundScapes® Blades™ MetalWorks[™] Canopies Tectum® Direct-Attach Tectum® Finale WoodWorks® Canopies

DIRECT-TO-DECK ACOUSTICS



Find specific coverage recommendations to get both aesthetics and acoustics for your design and contact us for a detailed reverberation time calculation specifically for your project.

ACOUSTIC INFORMATION







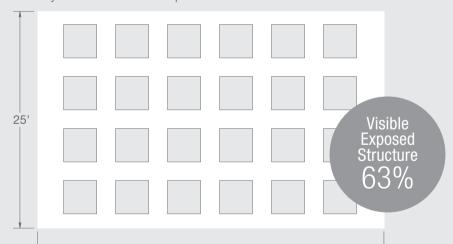


It's up to you. Both absorb the same amount of noise.

One covers more visual space – the other creates a more open visual.

HORIZONTAL ACOUSTICS? or VERTICAL ACOUSTICS?

Layout solution shown represents **BETTER** reverberation time

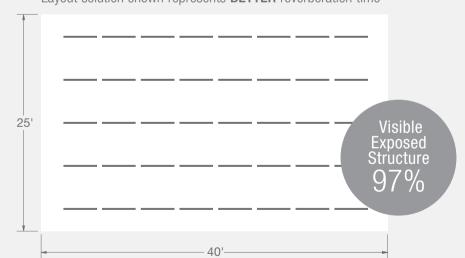


| 10 | | | |
|--|------------------|---------------------|-------------------|
| DECK COVERAGE / NOISE REDUCTION | Reverbe | eration Ti | ime (RT) |
| 1,000 ft² (25' x 40') Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet | G00D* RT=1.4s | BETTER** RT=1.0s | BEST** RT=0.6s |
| # of 48" x 48" SOUNDSCAPES® Shapes | 12 | 24 | 49 |
| % of Deck Coverage | 19% | 37% | 78% |

 * Long RTs (> 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 **BETTER** reverberation time



| DECK COVERAGE / NOISE REDUCTION | Reverberation Time (RT | | |
|--|------------------------|---------------------|---------------------------|
| 1,000 ft² (25' x 40') 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" SOUNDSCAPES® Blades™ | 20 | 40 | 86 |
| % of Deck Coverage | 1% | 3% | 6% |

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

▼ SoundScapes® Blades™ vertical panels in White and Stone; Microsoft Office, Chevy Chase, MD; SmithGroupJJR, Washington DC



SPOTLIGHT[™] ACOUSTICS

Blades & Baffles ALL ABOUT THE LINES

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



MetalWorks™ Custom Baffles in White
 Westfield Santa Anita, Arcadia, CA; Westfield Design & Construction, Arcadia, CA



SOUNDSCAPES® Blades™ ALL ABOUT THE SPACE

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

SOUNDSCAPES® BLADES™ NOISE REDUCTION

| SOUNDSCAPES BLADES | MOISE REDUCTION | | | | 3° DLADES NOISE REDUCTION | | IUN |
|---|-------------------------|---------------------|-------------------|--|---------------------------|--|-----|
| | Reverberation Time (RT) | | | | | | |
| 1,000 ft² 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 lively acoustic environments (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 acoustical absorption 1.38 Sabins/ft² or 64% more sound absorption than an NRC 0.90 continuous ceiling
- Over 20 standard sizes with custom options available
- Seismic-tested



METALWORKS Blades CLASSIC DOESN'T MEAN ORDINARY

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

- Available in two lengths for creative design layouts and easy installation

- Panel spacing is variable for a variety of design and acoustical needs
- Select finishes part of the Sustain™ portfolio and meet the most stringent sustainability compliance standards today

METALWORKS™ BLADES™ NOISE REDUCTION

| D* 1.4s | ER** | ** ** |
|-------------|--------------|--------------|
| G00 RT=. | BETT RT=1 | BEST RT=0 |
| 90 | 179 | 377 |
| 6% | 12% | 25% |
| | 90 6% | 00 110 |

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

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





iFly Indoor Skydiving Family Fun Center, King of Prussia, PA; Stantec

SPOTLIGHT™ ACOUSTICS

- Upscale linear visual adds acoustics and aesthetics to any space
- Noise absorption up to 0.41 Sabins/SF
- Custom shapes and sizes available to meet your project demands
- Select finishes part of the Sustain™ portfolio and meet the most stringent sustainability compliance standards today

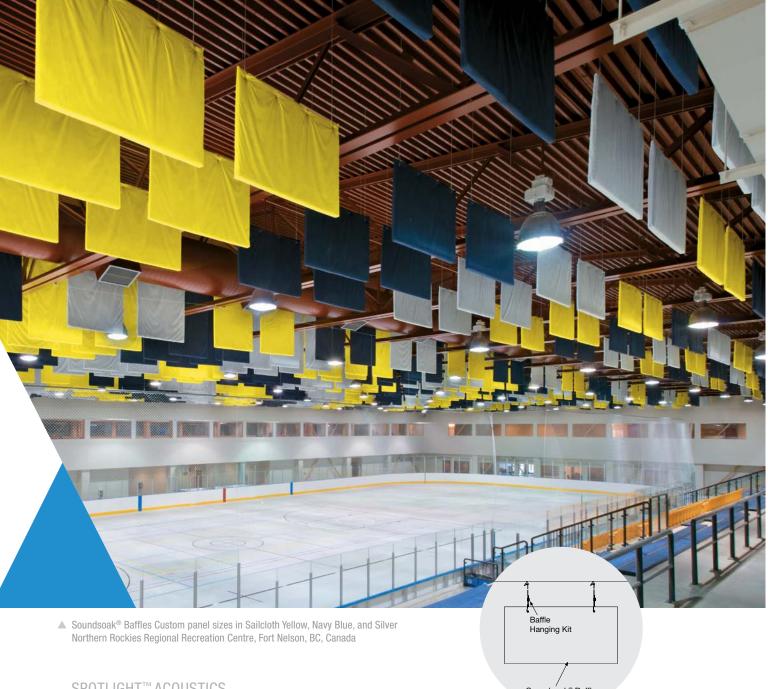
$\mathsf{TECTUM}^{\circledcirc} \; \mathsf{BLADES}^{\scriptscriptstyle\mathsf{TM}} \; \mathsf{NOISE} \; \mathsf{REDUCTION}$

| | Reverberation Time (RT | | |
|---|------------------------|---------------------|-------------------|
| 1,000 ft² 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 1" Blades™ | 75 | 148 | 312 |
| % of Deck Coverage | 3% | 5% | 10% |

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

TECTUM® Blades TEXTURE TAKES SHAPE

Customize the edges, heights, and thickness of Blades[™] panels for the acoustics and aesthetics you need.



 $\mathsf{SPOTLIGHT}^{\scriptscriptstyle\mathsf{TM}}\,\mathsf{ACOUSTICS}$

SOUNDSOAK® Baffles SIGHT & SOUND

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

- Available in a variety of standard and custom fabrics
- On average, 20% coverage results in 50% reduction in reverberation
- Sleek, adjustable aircraft cable installation

SOUNDSOAK® BAFFLES NOISE REDUCTION

| | Reverberation Time (RT) | | |
|---|-------------------------|---------------------|-------------------|
| 1,000 ft² 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% |
| * L DT- (- 4 4) - f U | | | |

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

- Add acoustics and aesthetics to any space
- Noise absorption up to 0.41 Sabins/SF
- Custom sizes and colors available
- Select finishes part of the Sustain™ portfolio and meet the most stringent sustainability compliance standards today

TECTUM® BAFFLES NOISE REDUCTION

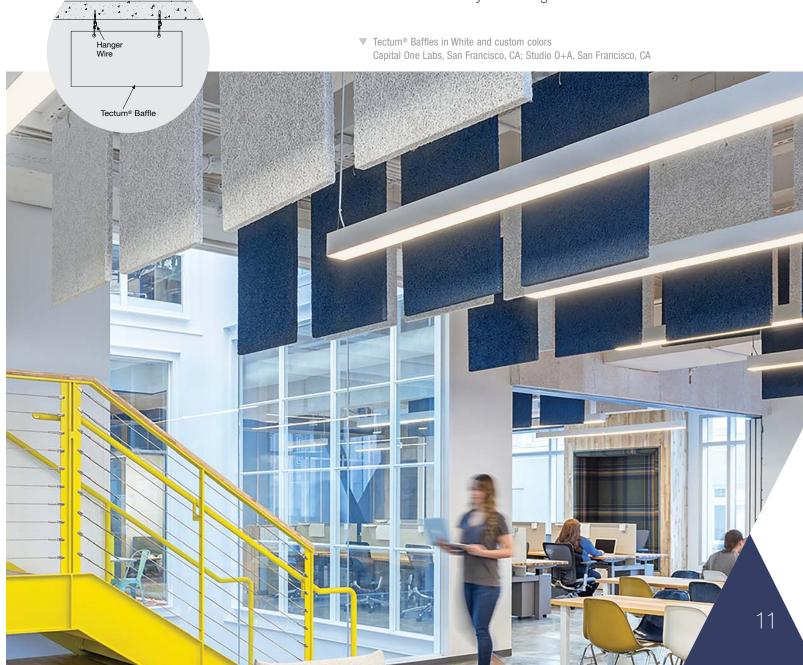
| | Rever | beration | Time (RT) |
|---|------------------|---------------------|-------------------|
| 1,000 ft² Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet | G00D* RT=1.4s | BETTER** RT=1.0s | BEST** RT=0.6s |
| # of 24 x 48 x 1" Baffles | 75 | 148 | 312 |
| % of Deck Coverage | 3% | 5% | 10% |
| | | | |

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

SPOTLIGHT[™] ACOUSTICS

TECTUM® Baffles MADE TO FIT

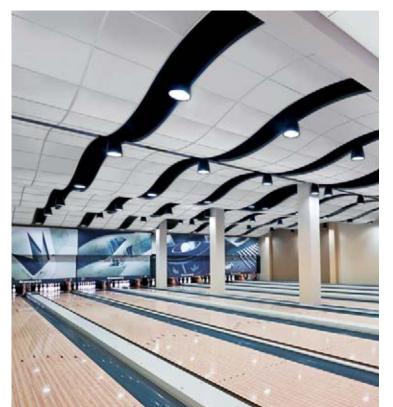
Baffle sizes, shapes, forms, and colors are available to fit your design needs.



Clouds & Canopies TWO-FACED ACOUSTICS

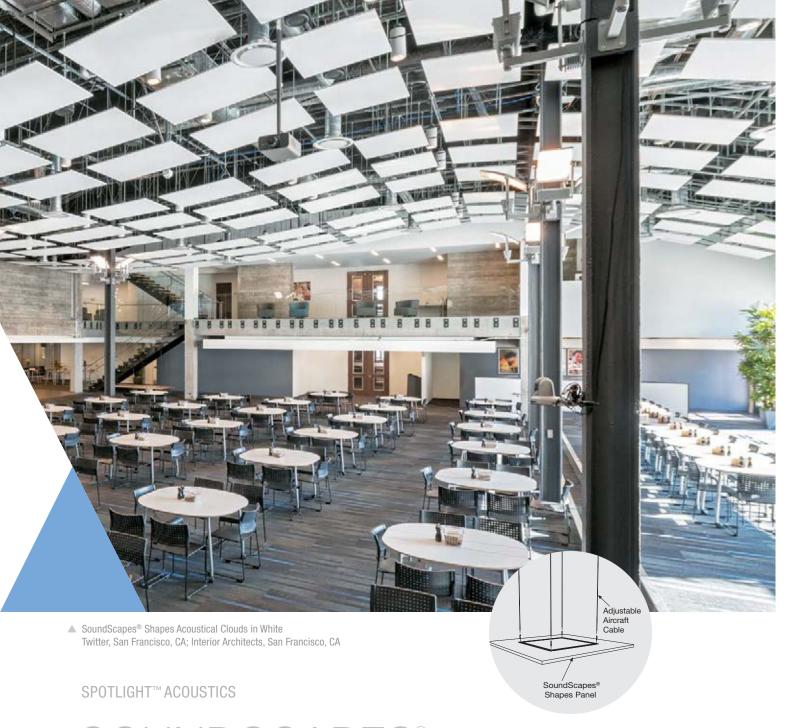
Both sides of the panels soak up the sound. Select from a wide range of standard and custom shapes, colors, and materials.

▼ Serpentina® Classic in Silver Grey Wichita State University Rhatigan Student Center, Wichita, KS; Howard + Helmer Architects





SoundScapes® Shapes Acoustical Clouds in Pale Lemon, Pecan, Plum, and Tangerine Evelyn Meador Library, Seabrook, TX; English + Associates Architects, Inc., Houston, TX



SOUNDSCAPES® Shapes VISUAL MOTION

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

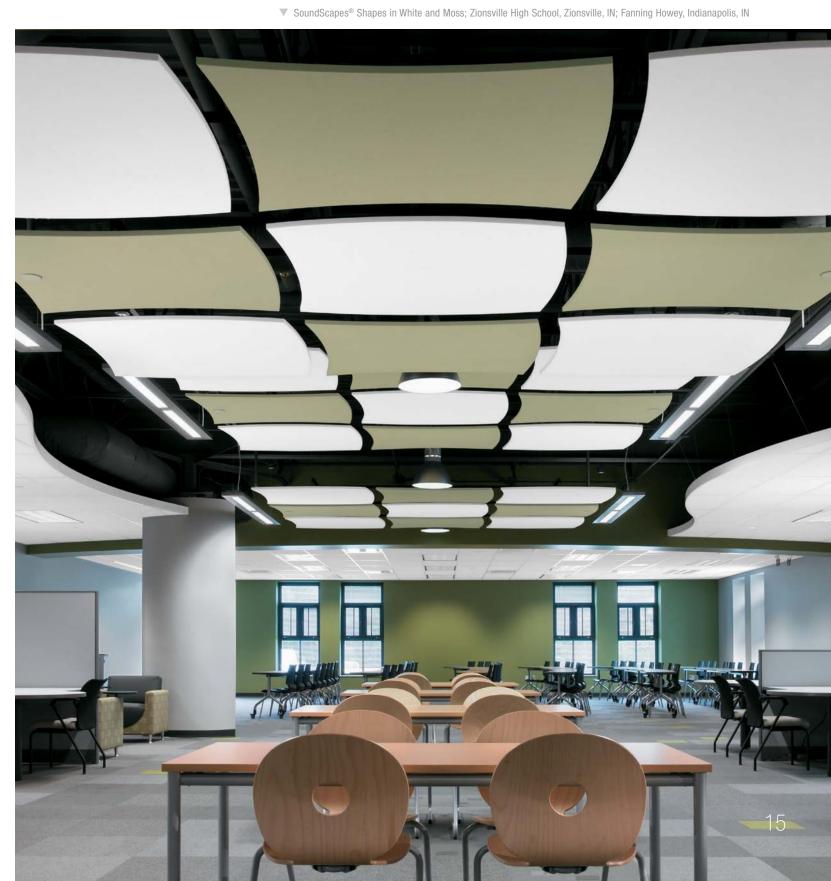
- Aesthetically define spaces and enhance acoustics
- Quick to install from the deck, ceiling, drywall, suspension system, or on a wall in adjustable heights and angles
- Available in multiple standard and custom sizes and shapes

SOUNDSCAPES® SHAPES NOISE REDUCTION

| | Rever | Reverberation Time (RT) | | | |
|---|------------------|-------------------------|-------------------|--|--|
| 1,000 ft² 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 RTs (> 1.4 sec) = for lively acoustic environments
- (auditoriums/hospitality)

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



FORMATIONS OUT OF THE BOX

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

■ Ultima® Tegular Clouds with 4" Axiom® Classic Trim in White; University of Rhode Island, Center for Biotechnology and Life Sciences, Kingston, RI; Payette, Boston, MA

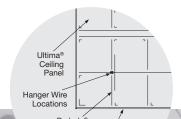
- Reduce acoustical reverberation time in the space
- Reduce noise levels in the space
- Increase speech intelligibility

FORMATIONS™ CLOUDS NOISE REDUCTION

| | Reverl | peration | Time (RT) |
|---|------------------|---------------------|-------------------|
| 1,000 ft² 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)
- (auditoriums/hospitality)

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







- Noise absorption up to 0.41 Sabins/SF

Tectum® Cloud

- Wide variety of color options available
- Custom Cloud shapes and sizes for any project need

TECTUM® SHAPES & CLOUDS NOISE REDUCTION

| | Reverberation Time (R) | | |
|---|------------------------|---------------------|-------------------|
| 1,000 ft² 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 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)

SPOTLIGHT[™] ACOUSTICS

TECTUM® Shapes & Clouds FLEXIBLE FIT

Floating textures custom-shaped to your specifications.



METALWORKS** Canopies DURABLE & SLEEK

Upscale your interior with a muted, refined visual.

- Easy to clean and maintain
- Great aesthetic above and below
- Easy installation

METALWORKS™ CANOPIES NOISE REDUCTION

| | Reverberation Time (RT) | | |
|---|-------------------------|---------------------|-------------------|
| 1,000 ft² 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 | 7 | 14 | 30 |
| % of Deck Coverage | 17% | 34% | 72% |

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

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

- Choose from Hill, Valley, or S-curve dual radius canopies
- Real wood and bamboo veneers
- Perforated option available for better acoustics on Hill and Valley canopies
- Concealed mounting hardware for a clean look above and below

WOODWORKS® CANOPIES NOISE REDUCTION

| 1,000 ft ² 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 | 12 | 23 | N/A | |
| % of Deck Coverage | 38% | 74% | N/A | |

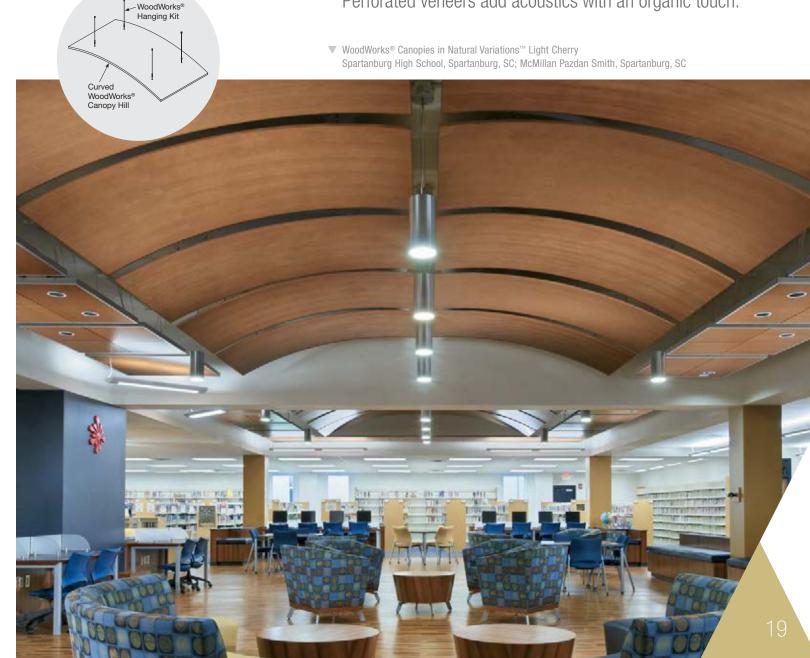
- * Long RTs (> 1.4 sec) = for lively acoustic environments (auditoriums/hospitality)

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

SPOTLIGHT[™] ACOUSTICS

WOODWORKS® Canopies QUIETING WARMTH

Perforated veneers add acoustics with an organic touch.



SERPENTINA® GREAT CURVES

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

Serpentina® Waves Clouds in Gun Metal Grey Destiny USA Mall, Syracuse, NY; Holmes-King-Kallquist & Associates, Architects, Syracuse, NY

- Maximum design flexibility available in both Hills and Valleys
- Standard panel colors plus four metallic paints; custom RAL® colors available
- Components provide maximum corrosion resistance
- Install perforated clouds with acoustical infill panels for sound absorption

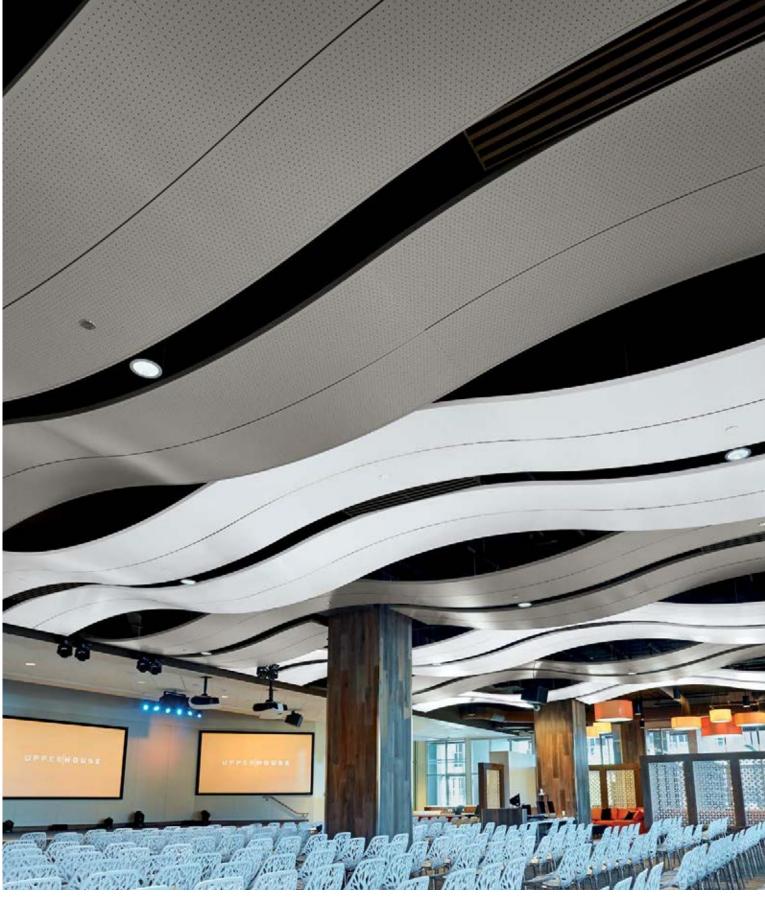
SERPENTINA® CLOUDS NOISE REDUCTION

| | Rever | beration | Time (RT) |
|---|------------------|---------------------|-------------------|
| 1,000 ft² 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 lively acoustic environments (auditoriums/hospitality)
- ** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)

AX2HGC Hanging Clip





▲ Serpentina® Waves in Gun Metal and White; Upper House, University of Wisconsin, Madison, WI; Brownhouse Architecture, Madison, WI

Direct-To-Deck Acoustics NOW YOU SEE IT. NOW YOU DON'T

Whether you want acoustic panels to be visible or have them disappear into the deck, we have options for you.





▲ InvisAcoustics[™] Basics in Black

INVISACOUSTICS Acoustical Panels ABRACADABRA

InvisAcoustics™ Basics panels empower your exposed structure design while bringing quiet to your space.

- Sound absorption NRC 0.75
- Field paintable to match deck color
- Panels cut easily to fit into any space
- Quick, easy install using hat channel or furring strips
- Foolproof, all-in-one screw allows fast installation without danger of overdriving and damaging the panel

INVISACOUSTICS™ PANELS NOISE REDUCTION

| | Reverb | Reverberation Time (RT) | | | |
|---|---------------------|-------------------------|-------------------|--|--|
| 1,000 ft² 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 3/4" Ceiling Panels | 280 ft ² | 560 ft ² | N/A | | |
| % of Deck Coverage | 28% | 56% | 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[™] Basics field-painted to match concrete



DIRECT-TO-DECK ACOUSTICS

CAPZ Acoustical Panels SLEEK OR SNEAKY

Capz accent hardware pairs with MetalWorks™,

fine-textured Optima®, or black Spectra[™] panels.

▼ MetalWorks[™] Capz[™] panels in Silver Grey

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- High light reflectance 0.90 (Optima® and MetalWorks[™] white panels)
- Easy alignment suspension system
- Panels can be designed in long runs or grouped based on the acoustical needs
- RAL®/custom colors available for MetalWorks panels

METALWORKS™ CAPZ™ NOISE REDUCTION

| | Reverberation Time (RT) | | | |
|---|-------------------------|---------------------|---------------------|--|
| 1,000 ft² 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 MetalWorks™ Capz™ Panels | 200 ft ² | 400 ft ² | 850 ft ² | |
| % of Deck Coverage | 20% | 40% | 85% | |
| * L DT- (4) f U | | | | |

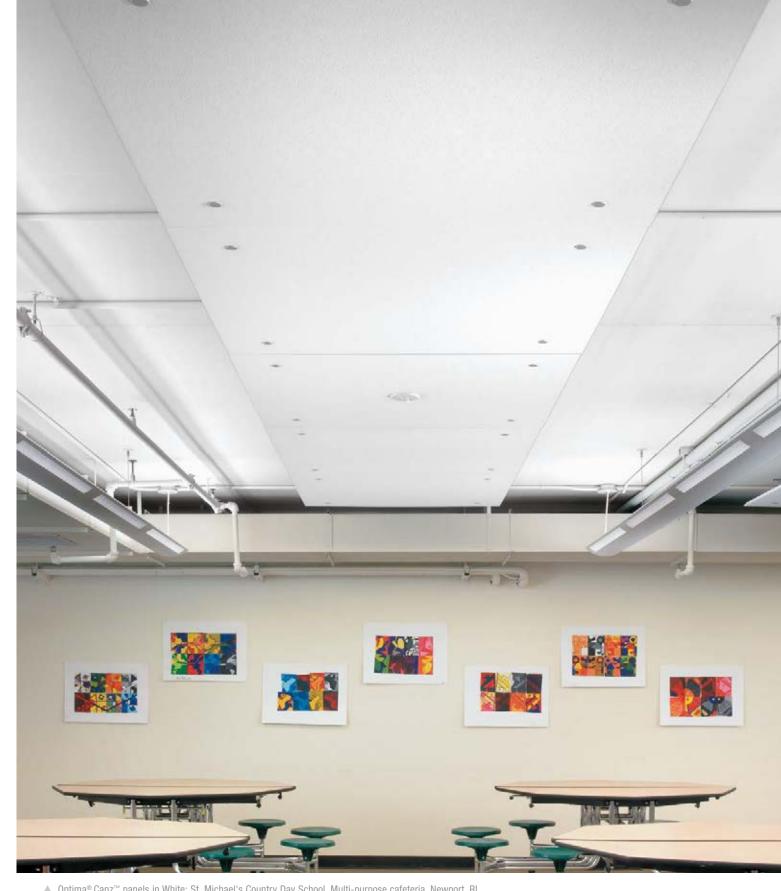
- * Long RTs (> 1.4 sec) = for lively acoustic environments
- ** Short RTs (< 1 sec) = high-quality speech intelligibility (classrooms/open plan spaces)

Adjustable Hanger

15/16" Tee

MetalWorks™ Capz™ Panel

. EB



▲ Optima® Capz™ panels in White; St. Michael's Country Day School, Multi-purpose cafeteria, Newport, RI



DIRECT-TO-DECK ACOUSTICS

SOUNDSCAPES® Blades MULTIPLE CHOICE

Reduce noise and define spaces in unlimited combinations for maximum design flexibility.

- Direct-attach to deck using Axiom® wall molding
- Excellent acoustical absorption 1.38 Sabins/ft² or 64% more sound absorption than an NRC 0.90 continuous ceiling
- Over 20 standard sizes with custom options available
- Seismic-tested

SoundScapes® Blades Direct-Attach Method

SOUNDSCAPES® BLADES™ NOISE REDUCTION

| 00011200111 20 221220 | | | | |
|---|--|--|--|--|
| | Reverberation Time (RT) | | | |
| 1,000 ft² 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 lively acoustic environments
- (auditoriums/hospitality)

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

- Unlimited design possibilities
- Great retrofit solution
- Durable for heavy-use interiors
- Can be mechanically fastened to a wide variety of surfaces

TECTUM® CEILING PANELS NOISE REDUCTION

| | Reverberation fille (F | iI, |
|---|--|-----|
| 1,000 ft² 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 ft ² 420 ft ² 900 f | t² |
| % of Deck Coverage | 21% 42% 90% | |
| | | |

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

DIRECT-TO-DECK ACOUSTICS

TECTUM® Direct-Attach Panels SLAM DUNK

Durability and noise control to withstand the crowds.





EXPOSED STRUCTURE DESIGN Spotlight™ Acoustics, Direct-to-Deck Acoustics, and InvisAcoustics™ Options

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 on 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.

Rules of thumb

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.

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.

Our acousticians have done the math for you on the product recommendation charts on pages 32 and 33. 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 | 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 ft² of material) | InvisAcoustics™ (50% coverage) | SoundScapes® Shapes (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 | Suspended 60" Below Deck |
| Absorption | 0 | 1.38 Sabins/ft² | 0.75 NRC | 1.49 Sabins/ft ² | 0.90 NRC |
| Reverberation Time (RT) | | | 1.1 sec Iligibility in classrooms and open ments such as auditoriums and h | | 0.5 sec |
| Reverberation Time Improvement | _ | 50% | 54% | 67% | 79% |
| Noise Reduction | _ | -2.0 dB | -2.6 dB | -3.6 dB | -4.5 dB |

EXPOSED STRUCTURE SPACES

RECOMMENDATIONS TO REDUCE REVERBERATION TIME & IMPROVE ACOUSTICS

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 Standards.

BETTER levels are appropriate for medium-to-large spaces like cafeterias, corridors, and lobbies where speech privacy is not critical.

GOOD levels are suitable for large, casual spaces for 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 achieve GOOD, BETTER, and BEST levels of reverberation time reduction to create quieter spaces.

Contact your Armstrong Ceilings Representative or TechLine (1 877 276 7876) for a detailed reverberation time calculation for your project.

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| | Model Room | Reve | rberation Time | e (RT) |
|--|---|---------------------|---------------------|-----------------------|
| SPOTLIGHT™ ACOUSTICS BLADES™ & BAFFLES | 1,000 ft ² 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 |
| MetalWorks™ Blades™ | Area of Blades [™] | 240 ft² | 477 ft ² | 1005 ft ² |
| Page 8 | # of 4 x 96 x 1" Blades™ | 90 | 179 | 377 |
| | % of Deck Coverage | 6% | 12% | 25% |
| SoundScapes® Blades™ | Area of Blades [™] | 141 ft² | 281 ft² | 604 ft ² |
| Pages 6-7 | # of 22 x 46 x 2" Blades™ | 20 | 40 | 86 |
| | % of Deck Coverage | 1% | 3% | 6% |
| Soundsoak® Baffles Page 10 | Area of Baffles | 112 ft² | 216 ft ² | 464 ft² |
| | # of 24 x 48 x 2" Baffles | 14 | 27 | 58 |
| | % of Deck Coverage | 1% | 2% | 4% |
| Tectum® Baffles | Area of Baffles | 600 ft ² | 1,184 ft² | 2,496 ft ² |
| Page11 | # of 24 x 48 x 1" Baffles | 75 | 148 | 312 |
| | % of Deck Coverage | 3% | 5% | 10% |
| Tectum® Blades™ | Area of Blades [™] | 600 ft ² | 1,184 ft² | 2,496 ft ² |
| Page 9 | # of 24 x 48 x 1" Blades™ | 75 | 148 | 312 |
| | % of Deck Coverage | 3% | 5% | 10% |





| | Model Room | Reve | rberation Tim | ne (RT) |
|---|---|---------------------|---------------------|---------------------|
| SPOTLIGHT™ ACOUSTICS CLOUDS & CANOPIES | 1,000 ft ² 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 |
| Formations™ | Area of Clouds | 256 ft² | 512 ft ² | 1,088 ft² |
| Page 16 | # of 96" x 96" Ultima® Squares | 4 | 8 | N/A |
| | % of Deck Coverage | 26% | 51% | N/A |
| MetalWorks™ Canopies | Area of Canopies | 168 ft² | 336 ft² | 720 ft² |
| Page 18 | # of 72" x 48" Canopies | 7 | 14 | 30 |
| | % of Deck Coverage | 17% | 34% | 72% |
| Serpentina® | Area of Clouds | 192 ft² | 384 ft² | 768 ft² |
| Pages 20-21 | # of 96" x 96" Clouds | 3 | 6 | 12 |
| | % of Deck Coverage | 19% | 38% | 77% |
| SoundScapes® Shapes | Area of Shapes | 192 ft² | 386 ft² | 784 ft² |
| Pages 14-15 | # of 48" x 48" Shapes | 12 | 23 | 49 |
| | % of Deck Coverage | 19% | 37% | 78% |
| Tectum® Shapes & Clouds Page 17 | Area of Clouds | 368 ft² | 704 ft ² | N/A |
| | # of 48 x 48 x 1-1/2" Clouds | 23 | 44 | N/A |
| | % of Deck Coverage | 37% | 70% | N/A |
| WoodWorks® Canopies Page 19 | Area of Canopies | 384 ft² | 736 ft² | 1,632 ft² |
| | # of 72" x 48" Canopies | 12 | 23 | N/A |
| | % of Deck Coverage | 38% | 74% | N/A |
| DIRECT-TO-DECK ACOUSTICS DIRECT-ATTACH | 1,000 ft ² 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 |
| InvisAcoustics™ Basics | Area of Ceiling Panels | 280 ft ² | 560 ft ² | N/A |
| Pages 24-25 | % of Deck Coverage | 28% | 56% | N/A |
| MetalWorks™ Capz™ | Area of MetalWorks [™] Panels | 200 ft² | 400 ft ² | 850 ft² |
| Pages 26-27 | % of Deck Coverage | 20% | 40% | 85% |
| SoundScapes® Blades™ | Area of Blades [™] | 141 ft² | 281 ft² | 604 ft² |
| Page 28 | # of 22 x 46 x 2" Blades™ | 20 | 40 | 86 |
| | % of Deck Coverage | 1% | 3% | 6% |
| Tectum® Direct-Attach Panels | Area of Ceiling Panels | 214 ft² | 420 ft ² | 900 ft ² |
| Page 29 | % of Deck Coverage | 21% | 42% | 90% |
| | | | | |

N/A indicates that the option is not recommended to achieve a BEST level reverberation time.

Coverage level suggests a wall-to-wall ceiling is a better choice to achieve recommended reverberation times.

"% of Deck Coverage" is defined as the visible deck area covered by a ceiling solution.

"% of Deck Coverage" is defined as the visible deck area covered by a ceiling solution.









FOCUS SPACES

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Our Good, Better, Best options help you select the right products for your design. Look for the Total Acoustics® icon on data pages if this performance is desired.



BEST Total Acoustics = NRC 0.80+ and CAC 35+







High NRC





Tegular Channeled Tegular Grille Tegular





BETTER Total Acoustics = NRC 0.70 – 0.75 and CAC 35+









High NRC Fine Fissured™ Cirrus® High NRC



Cirrus® &



WoodWorks®

Tegular



Channeled Tegular Grille Tegular



3D

GOOD Total Acoustics = NRC 0.60-0.65 and CAC 35+













Channeled Tegular





For WoodWorks®, MetalWorks™ and Tectum® Solutions: Acoustics performance is determined by the product, perforation, and infill panel. (Tectum® ceilings are not perforated)

TAKE THE NEXT STEP

1 877 276 7876

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

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SoundScapes® Shapes Acoustical Clouds in White
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