

# Noise Control & Design Flexibility

Good, Better, Best recommendations make it easy to choose the system that's right for your spaces.

BEST

**BETTER** 

GOOD

Total Acoustics Performance<sup>™</sup> provides the ideal combination of sound absorption and sound blocking. Sound absorption reduces noise while sound blocking keeps it from traveling into adjacent spaces.

Together these attributes help you create quiet spaces. So whether you are trying to reduce noise in concentration or focus spaces, creating collaborative environments, or working to ensure confidentiality, get total noise control and design flexibility with Total Acoustics ceiling panels.



SOUND PERFORMANCE FOR EVERY SPACE



**PUTTING SOUND BLOCKING TO THE TEST** 



PLACES TO WORK



PLACES TO LEARN



PLACES TO HEAL



**FOR EVERY SPACE** 

#### For WoodWorks®, MetalWorks™, TECTUM® and Shapes Solutions:

Acoustics performance for these ceilings is determined by the product, perforation, and infill panel. See product data pages for detailed information.

#### Total Acoustics = NRC 0.80+ and CAC 35+



#### Total Acoustics = NRC 0.70-0.75 and CAC 35+



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



NRC + CAC = Total Acoustics Performance™ (\*\*)



## Ideal Sound Performance for Every Space

#### Effectively Absorb & Block Sound

- No need for full height, floor-to-deck walls when you specify Total Acoustics® ceiling panels making future space re-configurations easier.
- No need for extra plenum barriers.

#### Absorption is Not a Substitute for Blocking

Ceiling panels with high sound absorption
 (NRC) and low sound blocking (CAC) are unable to provide the confidential speech privacy that
 Total Acoustics Performance<sup>™</sup> offers.

All ceilings with Total
Acoustics Performance<sup>™</sup>
have a CAC of 35 or higher,
the ideal value to deliver
the sound blocking you need.



**FOCUS SPACES** 



**COLLABORATIVE SPACES** 



**CONFIDENTIAL SPACES** 

# Putting SOUND BLOCKING to the Test

#### The Truth About Sound Blocking

- Total Acoustics® ceilings with a CAC of 35+ tested in real-world scenarios¹ have been proven to deliver confidential speech privacy.
- Ceiling panels with a low CAC (<35) are unable to achieve the sound blocking that Total Acoustics Performance<sup>™</sup> offers.

#### Ceiling CAC – Critical to Speech Privacy

 Real-world independent acoustical testing in common plenum shared offices confirms that high CAC Total Acoustics panels are essential to achieving speech privacy.



Download the White Paper: Attaining Speech Privacy with Acoustical Ceiling Panels

### Why CAC Matters

 $<sup>^{\</sup>mbox{\tiny 1}}$  Independent Acoustical Measurements and Report by Acentech Inc.



#### Field Test Parameters:

- Adjacent Offices (same size)
- Plenum (with no barrier)
- Common Wall (STC 35+)
- Concrete Deck (with commercial carpeting)
- Background noise at ASHRAE recommended 42 dBA

Total Acoustics® ceiling solutions help provide confidential speech privacy.



### MANAGE Office Buzz

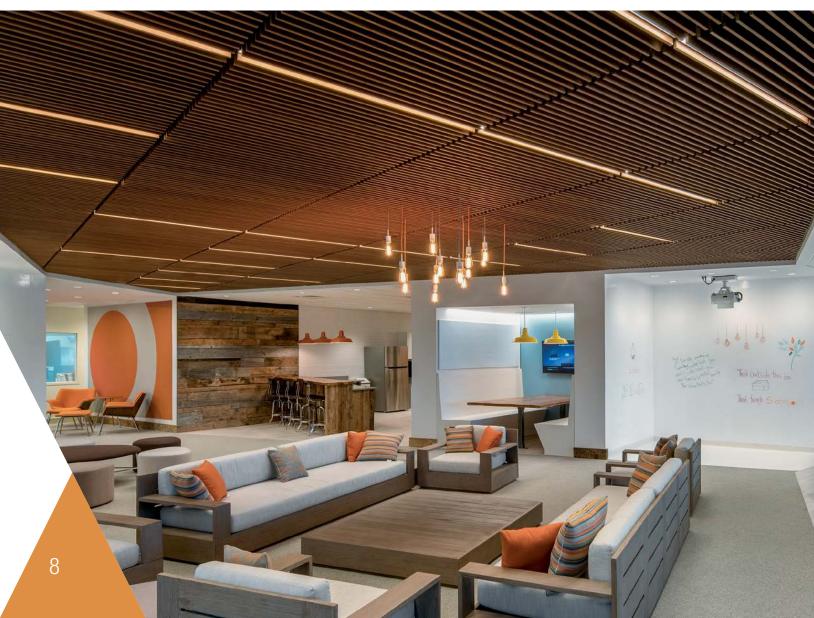
Studies show that excessive noise at the office reduces worker effectiveness, raises stress, and lowers employee satisfaction. Today's flexible spaces call for concentration one minute, collaboration the next.

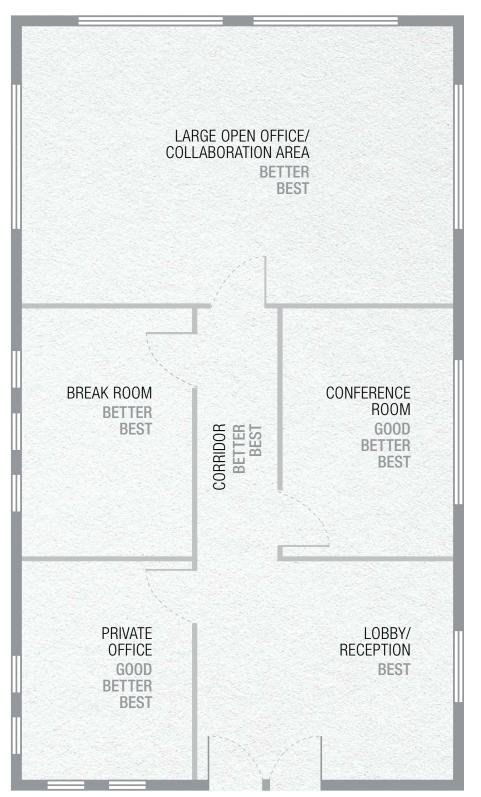
In closed plan areas, noise from open areas plus adjacent spaces can negatively affect confidentiality.

Today's open plan areas can become tomorrow's closed plan areas making both absorption (NRC) and blocking (CAC) important for future space flexibility.

Ceilings with Total Acoustics Performance<sup>™</sup> not only address quiet concentration, energetic collaboration, and speech privacy in today's workplace, but everything in between.

▼ WoodWorks® Grille Tegular 24" x 24" panels with 2820 infill panels







#### **BEST**

NRC 0.80+ and CAC 35+

High traffic spaces or multipurpose spaces where maximum sound absorption and sound blocking are needed to help keep noise levels down and prevent disruption to adjacent spaces.

#### **BETTER**

NRC 0.70-0.75 and CAC 35+

Spaces where strong sound absorption and sound blocking are needed for all-around acoustical performance.

#### GOOD

NRC 0.60-0.65 and CAC 35+ Spaces where less sound absorption is required but sound blocking is needed to maintain privacy between adjacent areas.

+ CAC = Total Acoustics Performance<sup>™</sup>



▲ Cirrus® Tegular 24" x 24" panels with Suprafine® 9/16" suspension system

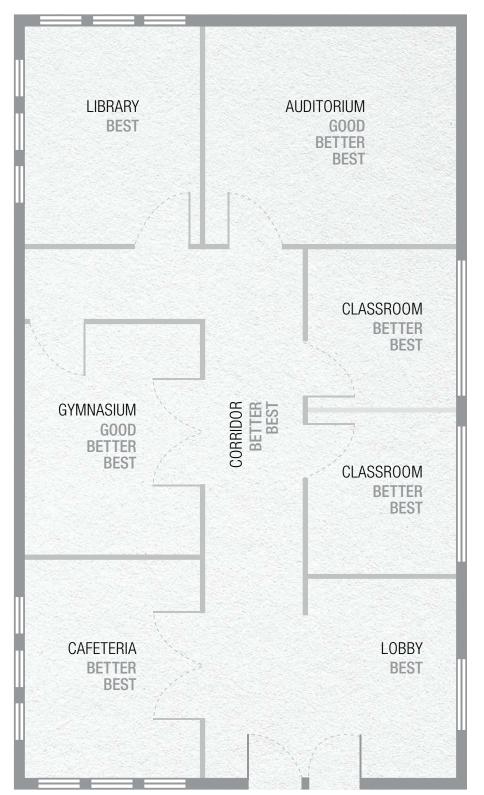
### HUSH Booming Voices

Each day, thousands of students are unable to understand one out of every four spoken words in classrooms due to inadequate ceiling acoustics.

With Total Acoustics® ceiling performance, you'll meet or exceed ANSI standards, contribute to LEED® points, and create a better place for teachers to teach and students to learn.

■ MetalWorks<sup>™</sup> Tegular panels with 2820 infill panels







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NRC + CAC = Total Acoustics Performance™

### CREATE Peaceful Privacy

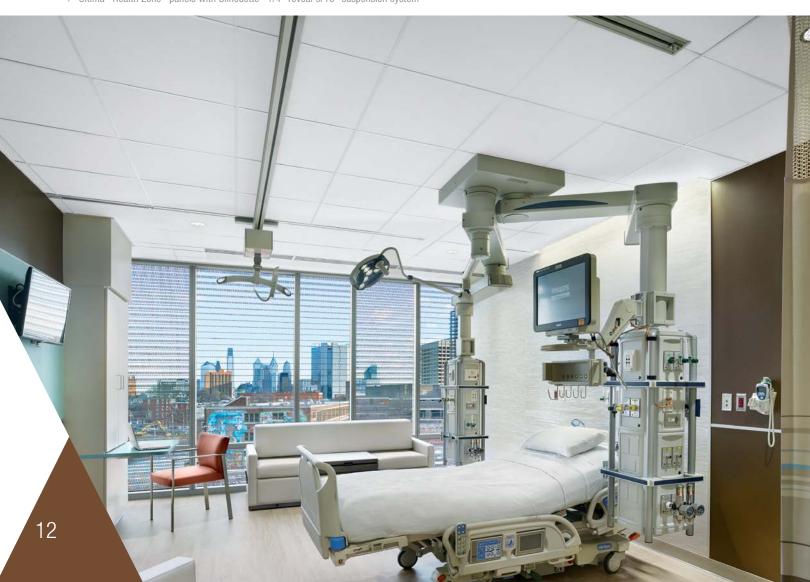
Excessive noise in corridors, busy nurses' stations, and chaotic treatment rooms negatively affects patients – as well as interactions between doctors and staff.

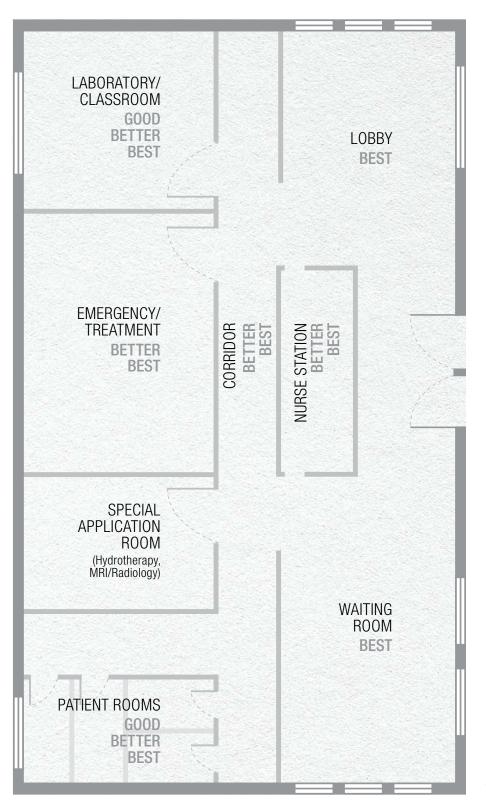
Ceilings with Total Acoustics Performance™ help meet HCAHPS, address HIPAA healthcare requirements, and aid in optimum patient recuperation.



▲ WoodWorks® Channelled Tegular panels with 2820 infill panels

**■** Ultima® Health Zone<sup>™</sup> panels with Silhouette® 1/4" reveal 9/16" suspension system







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Our A Ceiling for Every Space® online tool lets you quickly click through installation photos to give you ideas and specific product recommendations.

You'll also be directed to the corresponding Total Acoustics Performance $^{\text{TM}}$  information for your product selections.

Try it at: armstrongceilings.com/everyspace



# CEILING SOLUTIONS for Every Space











Our TechLine service team can provide you with technical support for acoustic code compliance of ceilings with Total Acoustics Performance $^{\text{TM}}$ :

- HIPAA, HCAHPS, ANSI
- Custom reverberation and privacy index calculation reports based on your project design

Contact us to find out more: 1 877 276-7876 Fax 1 800-572-TECH techline@armstrongceilings.com 8 a.m. to 5:30 p.m. EST

#### **Tech**Line

#### **TAKE** THE NEXT **STEP**

#### 1 877 276-7876

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

**TechLine** – Custom reverberation and privacy index calculation reports, technical information, detail drawings, CAD design assistance, installation information, other technical services -8 a.m. to 5:30 p.m. EST, Monday through Friday. FAX 1 800 572 8324 or email: techline@armstrongceilings.com

#### armstrongceilings.com/commercial



CEU – Acoustical Design for Today's Buildings



CEU - A New World of Acoustics

Reverberation Time Calculator

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