TOTAL ACoustics® NOW FOR WOOD, METAL, & TECTUM®

Inspiring Great Spaces®
Total Noise Control & Design Flexibility

Total Acoustics™ performance 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.

NRC\text{ABSORB} + CAC\text{BLOCK} = \text{Total Acoustics™ Performance}
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+**

- Calla®
- Lyra® PB
- Ultima® PB
- WoodWorks®
- WoodWorks®
- WoodWorks®
- MetalWorks™
- MetalWorks™
- TECTUM®

**Infill Panel:**
- 2820
- 1713

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

- Ultima®
- Ultima®
- Fine Fissured™
- School Zone®
- Cirrus® &
- WoodWorks®
- WoodWorks®
- WoodWorks®
- MetalWorks™
- MetalWorks™
- MetalWorks™

**Infill Panel:**
- 1713 or 2820
- 1713
- 1713
- 1713

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

- Canyon®
- Mesa™
- School Zone®
- Cirrus®
- Cirrus®
- WoodWorks®
- WoodWorks®
- MetalWorks™
- MetalWorks™

**Infill Panel:**
- 1713
- 2820
- 2820

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**Acoustics Performance™**
Today, noise is the number one complaint in the workplace. Now, you can help solve it with Total Acoustics™ performance.
Ultima® Tegular 24" x 24" panels with Interlude® 9/16" suspension system
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 offers.

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

ABCs™ of Acoustical Design
Absorb and Block sound with Total Acoustics® high performance ceiling panels. Then Cover intruding noise with electronic sound masking.
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 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.

¹ Independent Acoustical Measurements and Report by Acentech Inc.
Why CAC Matters

ULTIMA® CEILING PANELS

NRC 0.90
CAC 22
HIGH NRC CEILING PANELS
Speech Privacy Index* 82%

NRC 0.75
CAC 35
ULTIMA® CEILING PANELS
Speech Privacy Index* 97%

* Privacy Index measurement and calculation are defined in ASTM E1130

Confidential Speech Privacy ACHIEVED

Confidential Speech Privacy NOT ACHIEVED

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.
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 not only address quiet concentration, energetic collaboration, and speech privacy in today’s workplace, but everything in between.
**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.

The Acoustics Performance equation is: **NRC + CAC = Total Acoustics Performance™**

[armstrongceilings.com/totalacoustics]
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.
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.
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.
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+
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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.
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 information for your product selections.

Try it at:
armstrongceilings.com/everyspace
Our TechLine service team can provide you with technical support for acoustic code compliance of ceilings with Total Acoustics™ performance:

- 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

TechLine
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 — Innovations in Acoustical Ceilings for Today’s Flexible Interiors

CEU — A New World of Acoustics
Reverberation Time Calculator
Total Acoustics™ Ceilings Case Studies
Latest product news
Standard and custom product information
Online catalog
CAD, Revit®, SketchUp™ 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
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e-mail: 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
helping to bring your one-of-a-kind ideas to life

Integrated Solutions Partner
Sound Masking
Email: info@cambridgesound.com
www.cambridgesound.com

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