

Experience, Above All™

Iotal Acc



Total Acoustics® ceiling panels provide the ideal combination of sound absorption and sound blocking, making it easy to get the acoustics right for every space.



NRC + CAC = Total Acoustics

Helping You Select the Right Acoustics





Why Sound Blocking Matters A Better Learning Experience for Students A Quieter Healing Experience for Patients An Improved Work
Experience for
Office Personnel

Total Acoustics® Solutions











Getting the acoustics right is easy with Total Acoustics® ceilings, providing the ideal combination of noise reduction and sound blocking in one ceiling panel. With three levels of sound absorption and high sound-blocking performance, Total Acoustics makes it easy to choose the right ceiling for every space, every time.

To make your choice even simpler – request a complimentary Custom Acoustical Report for your project needs. Our TechLine experts can help you get the right sound control for your design and your budget.

The Right
Acoustics For
Every Space

BEST

NRC 0.80+ CAC 35+

BETTER

NRC 0.70-0.75 CAC 35+

GOOD

NRC 0.60-0.65 CAC 35+

Why choose Total Acoustics?

Ceilings with high NRC only can absorb sound within the space – but cannot block sound from leaving or entering the space.

Ceilings with a CAC of 35+ will help block sound from traveling to adjacent spaces through the plenum, providing improved sound isolation, speech privacy, and design flexibility.

Sound absorption is not a substitute for blocking.



See the Difference:
Watch the video on the importance of sound blocking in your ceilings.

Did you know?

It costs up to 50% less to use a Total Acoustics® ceiling than to install plenum barriers or finish walls to the deck.

Running HVAC duct work, plumbing, and conduit in the plenum above the ceiling make finishing walls to the deck costly and impractical.



Learn more: Read the white paper "Attaining Speech Privacy with **Acoustical Ceiling Tiles".**

Why do we recommend ceiling panels with a soundblocking performance of CAC 35+? Testing in realworld scenarios¹ has proven Total Acoustics® panels with a CAC of 35+ and wall STC of 35+ isolates sound and prevents distracting noise from transferring to adjacent workspaces.

Field Test Parameters

Adjacent Offices (same size) Plenum (with no barrier) Common Wall (STC 35+) Commercial carpeting Background noise at 42dBA with sound masking system

Ultima® Health Zone™ ceiling panels

¹ Independent acoustical measurements and report by Acentech Inc.



Acoustic Design For Education

Making the grade.

Each day, thousands of students are unable to understand one out of every four spoken words in classrooms due to inadequate acoustical treatments. Total Acoustics® ceilings will help you meet or exceed ANSI/ ASA standards, and contribute to LEED® points to create a better place for teachers to teach and students to learn.

Ultima® ceiling panels

Sound blocking between spaces/classrooms is critical to minimize distraction and preserve speech privacy.

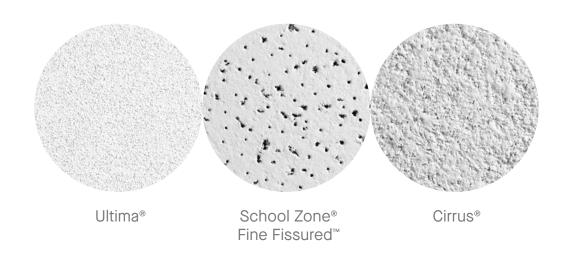
A ceiling with a CAC of 35+ and wall STC of 50+ will work together to provide proper noise isolation.

Top Specified Ceiling Panels for Education

ANSI/ASA S12.60
American National Acoustical Performance Criteria, Design Requirements and Guidelines for Schools

Background Sound Max 35dBA (from HVAC)

Reverberation Time < 0.60 Seconds



Ultima ceiling panels

School Zone Fine Fissured ceiling panels

Want help? Request a complimentary Custom Acoustical Report to help get the acoustics right in your classrooms







Acoustic Design For Healthcare

Caring for outcomes.

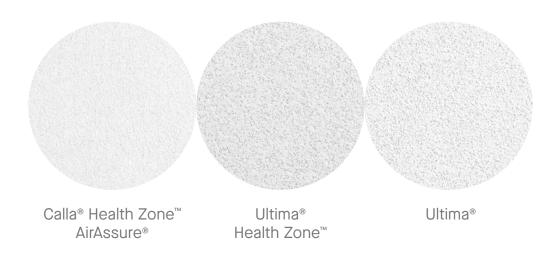
Hospital noise satisfaction ranks low on HCAHPS scores. Excessive noise in corridors, busy nurses' stations, and chaotic treatment rooms negatively affect patients and interactions between doctors and staff. Total Acoustics® ceilings can help you address that and meet HIPAA healthcare requirements, as well as aid in optimum patient recuperation.

Sound blocking between healthcare spaces is critical to maximize sound isolation and create speech privacy. A ceiling with a CAC of 35+ and wall STC of 45+ will work together to provide proper noise isolation.

Top Specified Ceiling Panels for Healthcare FGI
Facilities
Guidelines Guidelines for the Design and
Institute Construction of Hospitals (2022)

Background Sound Up to 45dBA for patient rooms

Reverberation Time 0.5 to 0.6 seconds for patient rooms



Calla Health Zone AirAssure ceiling panels

Ultima Health Zone ceiling panels

Want help? Request a complimentary Custom Acoustical Report to help get the acoustics right in your healthcare spaces.







Acoustic Design For Office Spaces

Doing the job well.

Studies show excessive noise reduces employee effectiveness, raises stress, and lowers productivity. Work and workplaces call for both concentration and collaboration. Total Acoustics® ceilings help you address quiet concentration, energetic collaboration, and speech privacy in today's workplace – creating an optimal work environment.

Sound blocking between office spaces is critical to minimize distraction and preserve speech privacy. For private offices, a ceiling with a CAC of 35+ and wall STC of 35+ will work together to provide proper noise isolation.

LEED v4.1® Leadership in Energy and Environmental Design **Background Sound** 35dBA to 48dBA for open-plan spaces **Reverberation Time** 0.6 seconds maximum for private offices

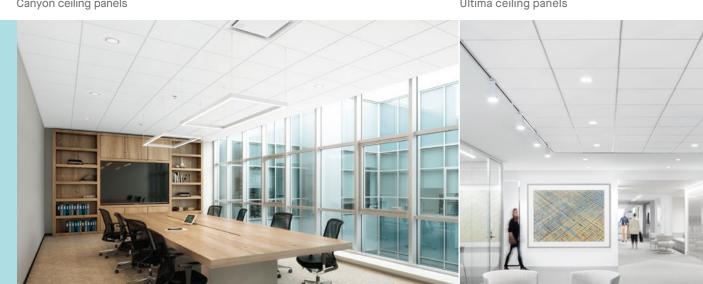
Top Specified Ceiling Panels for **Office Spaces**



Canyon ceiling panels

Ultima ceiling panels

Want help? Request a complimentary Custom **Acoustical Report to help** get the acoustics right in your workspaces.



A Product Portfolio to Fit Every Space

NRC + CAC = Total Acoustics

BEST Performance NRC 0.80+ | CAC 35+

Calla®

Product Family

Ultima®

High NRC



Calla® Health Zone™ AirAssure®

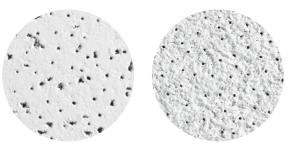


AcoustiBuilt® Ceiling System

BETTER Performance NRC 0.70-0.75 | CAC 35+



Ultima®/ Fine Fissured™ Ultima® Health Zone™ High NRC AirAssure®



Cirrus®/

Cirrus®

High NRC

School Zone® Fine Fissured™/ School Zone® Fine Fissured™ AirAssure®

GOOD Performance NRC 0.60-0.65 | CAC 35+



Canyon®



Mesa™



School Zone® Georgian™



Cirrus® Second Look®/ Cirrus® Profiles

Left to right:

WoodWorks Grille Tegular with Calla infill panel in Black

Tectum
DesignArt - Lines
Tegular ceiling
panels

MetalWorks Immix Blades



Your Choice

BEST BETTER GOOD Performance Pair these wood, metal, and woodfiber ceilings with an infill panel to reach the level of performance your space needs.

Acoustical performance for these ceilings is determined by the product, perforation, infill panel, and installation method.



WoodWorks® Tegular/ WoodWorks® Shapes



WoodWorks® Channeled Tegular



WoodWorks® Grille Tegular



MetalWorks™ Immix



CastWorks[™] Metaphors®



MetalWorks™ Tegular



MetalWorks™ 3D



Tectum® DesignArt™ -Lines Tegular



Tectum® Tegular



A Quiet Space is a Healthy Space

Acoustic comfort is just one of the important factors that contributes to the well-being, comfort, satisfaction, and productivity of the people inhabiting indoor spaces. Choosing Total Acoustics® ceiling panels helps to improve Indoor Environmental Quality (IEQ) and create healthy, sustainable, quiet spaces.



Keep Learning

Continue learning about acoustics and earn CEUs using these links:

- Acoustics Academy Hosted By Architectural Record
- Rep Hosted Courses
- Find Your Armstrong Rep



More About Healthy Spaces



How Can We Help You?

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 – 8:00 a.m. to 5:30 p.m. EST, Monday through Friday. FAX 1 800 572 8324 or email: techline@armstrongceilings.com

Photo above: Ultima® Tegular HRC ceiling panels Cover photo: Calla® Health Zone™ ceiling panels

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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

₽ProjectWorks®

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