



TOTAL ACOUSTICS[®]

NOW FOR
WOOD,
METAL,
& TECTUM[®]

Inspiring Great Spaces[®]

Armstrong[®]
CEILING SOLUTIONS

TOTAL ACOUSTICS™ PERFORMANCE FOR WOOD, METAL, AND TECTUM®

Lift Here



WOOD



METAL

Now, Get Total Acoustics™ Performance with Wood

Total Noise Control & Design Flexibility

BEST

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

Total Acoustics™ performance provides the ideal
combination of sound absorption and sound blocking.

BETTER

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.

GOOD

$$\text{NRC}_{\text{ABSORB}} + \text{CAC}_{\text{BLOCK}} = \text{Total}$$

Works®, MetalWorks™, and Tectum®

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

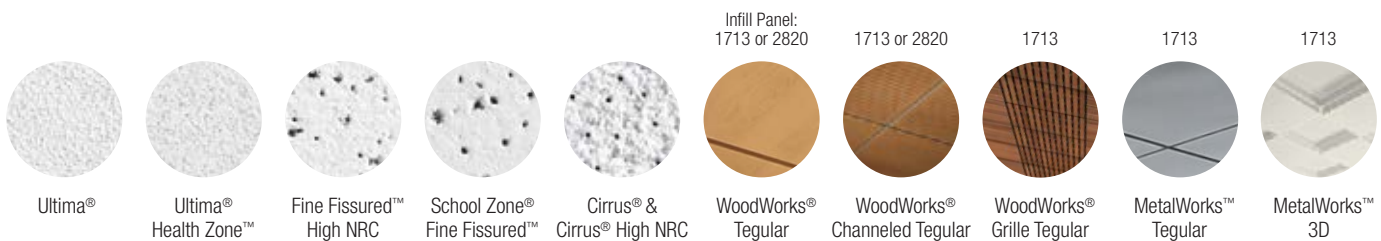
Acoustics performance for WoodWorks®, MetalWorks™, and TECTUM® ceilings is determined by the product, perforation, and infill panel.

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+



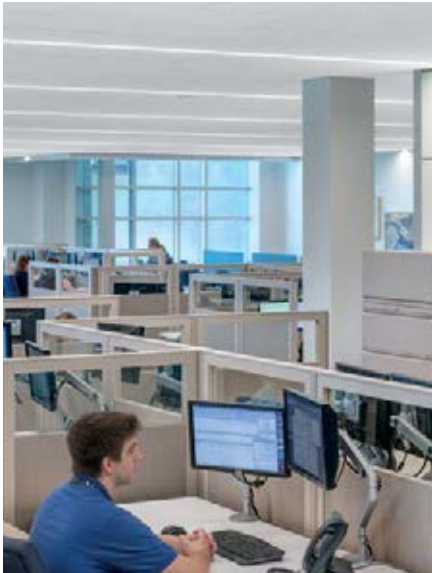
Total Acoustics = NRC 0.60-0.65 and CAC 35+



Acoustics Performance™



Today, noise is the number one complaint in the workplace. Now, you can help solve it with Total Acoustics™ performance.



FOCUS SPACES



COLLABORATIVE SPACES



CONFIDENTIAL SPACES



Ultima® Tegular 24" x 24"
panels with Interlude® 9/16"
suspension system

Great Acoustics

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 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.

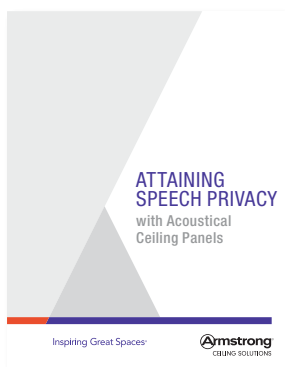


by Design

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.



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

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 Matte

Confidential
Speech Privacy
**NOT
ACHIEVED**

NRC 0.90
CAC 22

**HIGH NRC
CEILING PANELS**

Speech Privacy
Index* **82%**

* Privacy Index measurement and calculation
are defined in ASTM E1130

Confidential
Speech Privacy
ACHIEVED

NRC 0.75
CAC 35

**ULTIMA®
CEILING PANELS**

Speech Privacy
Index* **97%**



**TOTAL
ACOUSTICS™**

Sound Absorption (NRC)
+ Sound Blocking (CAC)

rs

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

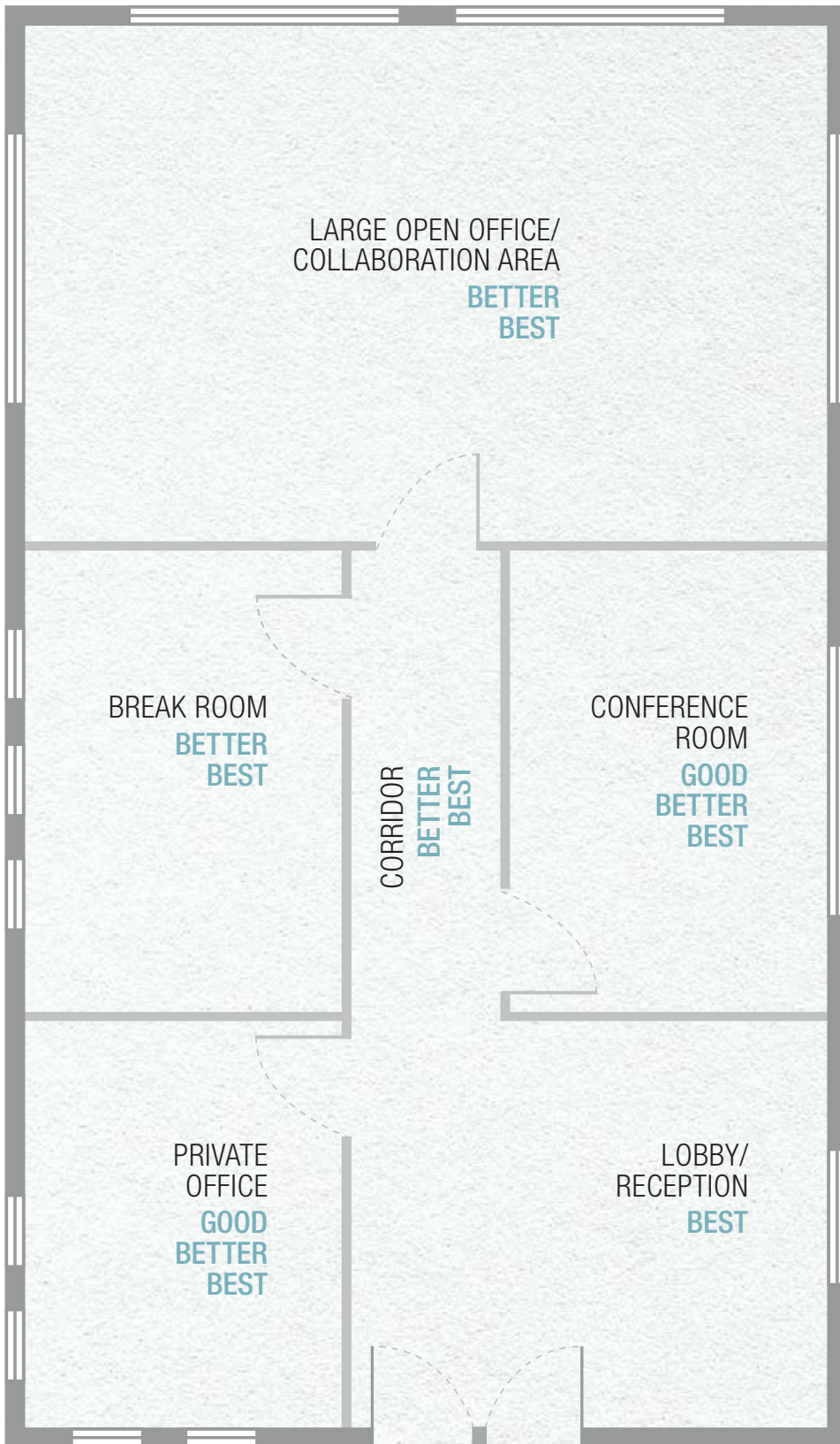
places to work



WoodWorks® Tegular 24" x 24" panels with 2820 infill panels and Suprafine® 9/16" suspension system



Ultima® 24" x 48" Tegular panels with Suprafine® 9/16" suspension system. Running bond pattern is achieved by using XTAC clip.



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.

NRC
+ CAC
= Total Acoustics
Performance™

places to learn

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.

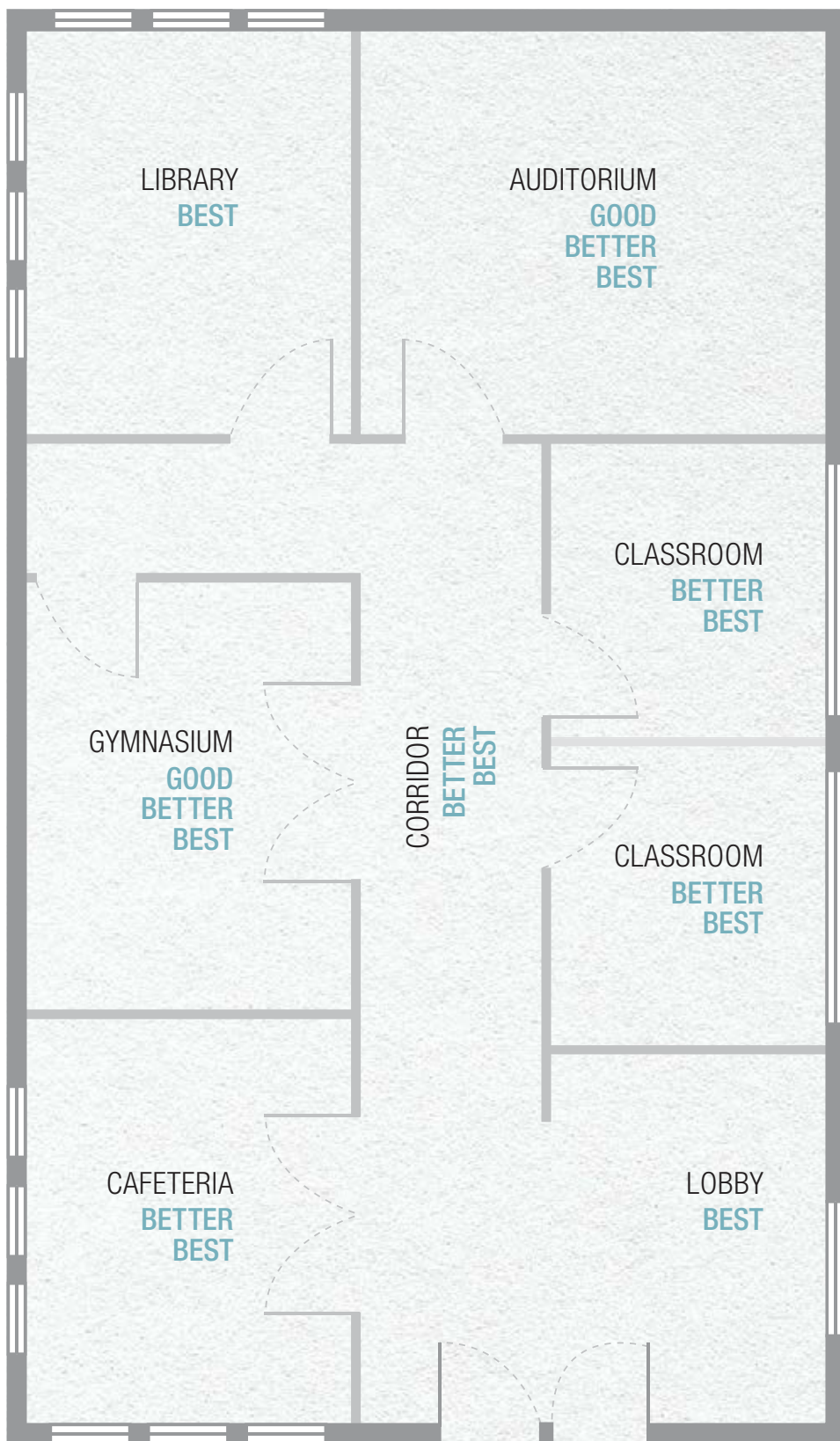


School Zone® Fine Fissured™ 24" x 48" lay-in panels with Prelude® XL® 15/16" suspension system

HUSH BOOMING VOICES



MetalWorks™ Tegular 24" x 24" flush microperforated panels in Silver Grey



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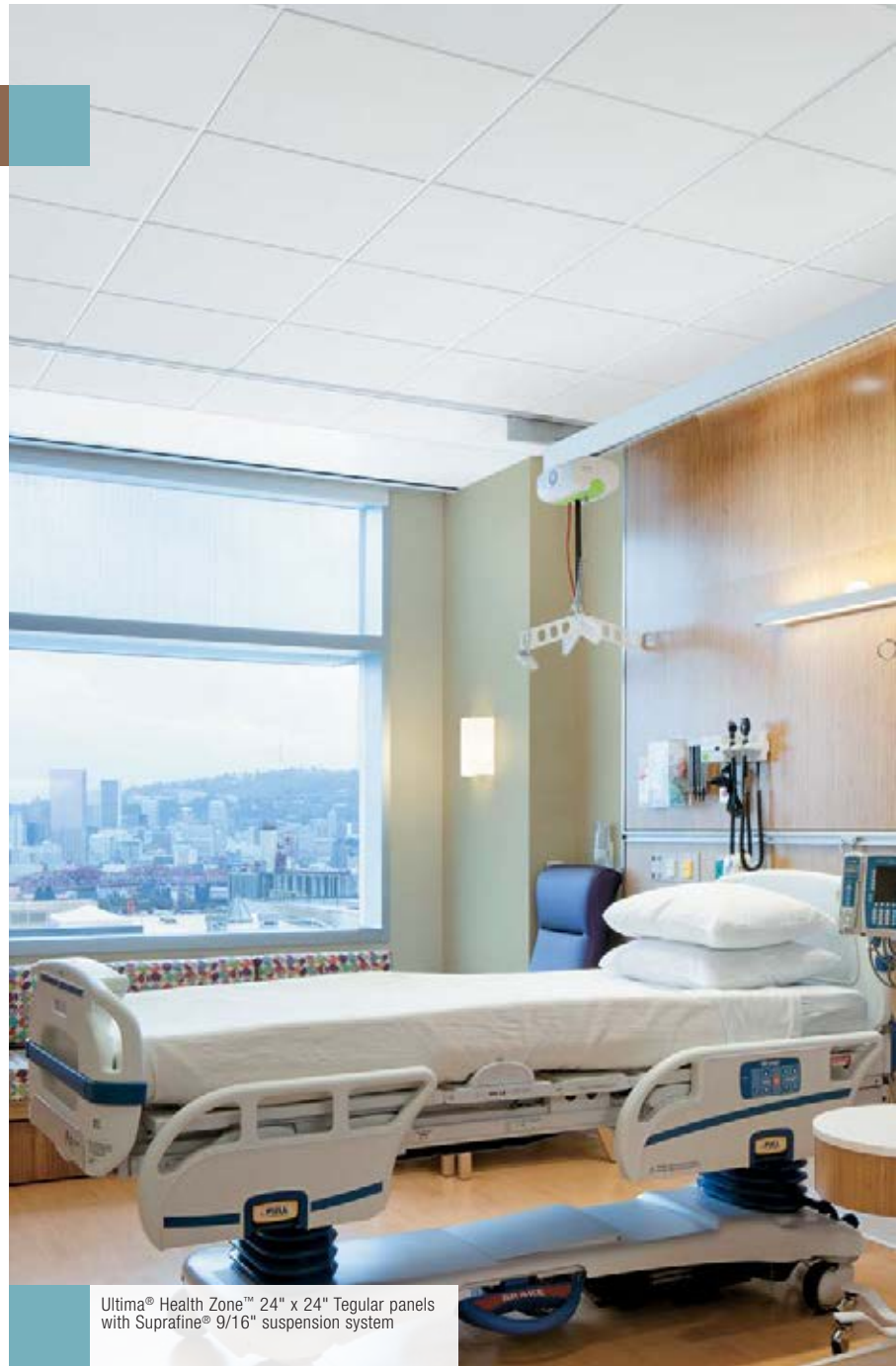
NRC
+ CAC
= Total Acoustics
Performance™

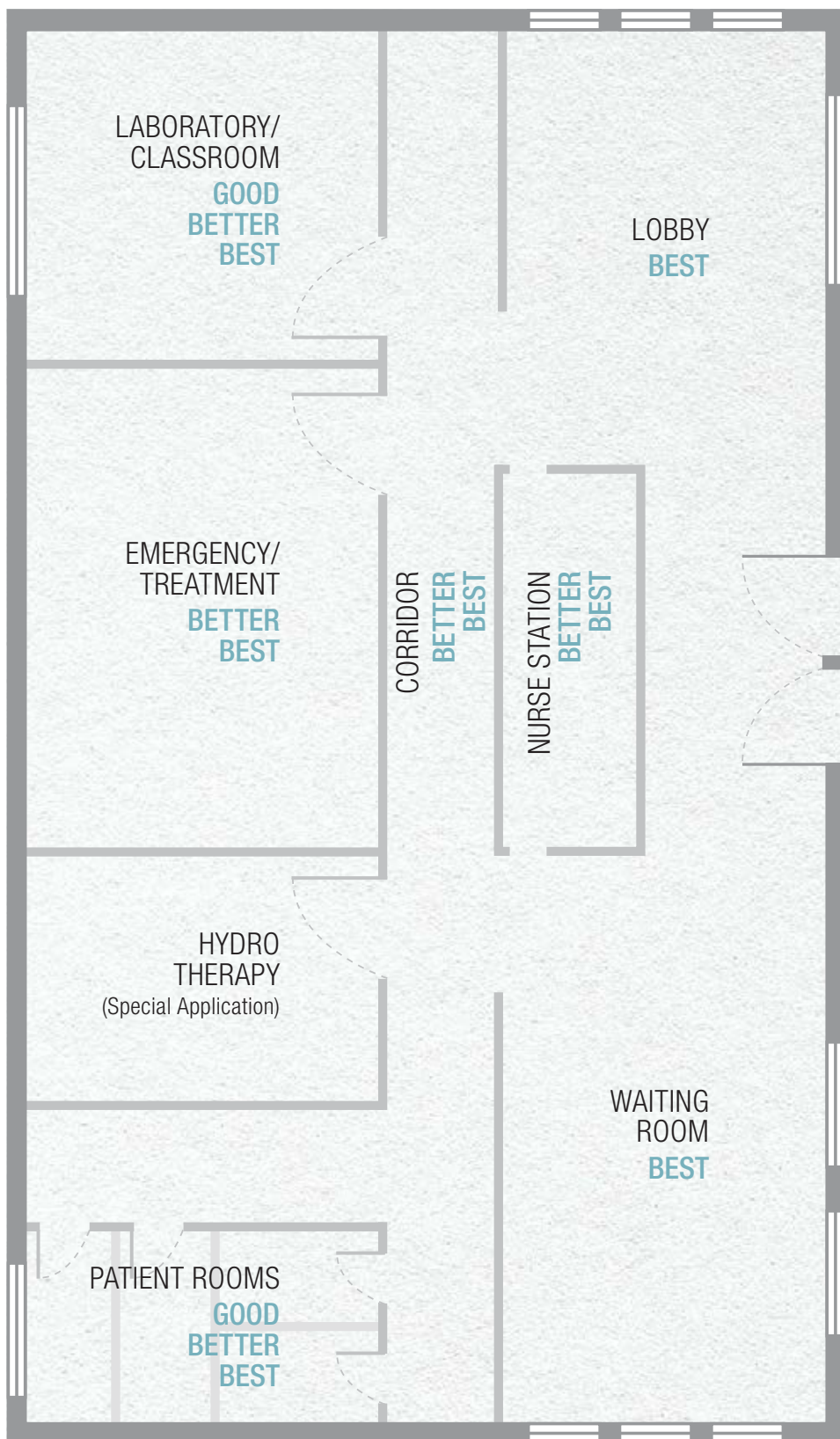
CREATE PEACEFUL PRIVACY

places to heal

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.





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NRC
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= Total Acoustics
Performance™

ideas, acoustics, design

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/everspace



PLACES TO WORK



PLACES TO LEARN

CEILING SOLUTIONS FOR EVERY SPACE



Calla® Colorations® panels with Silhouette® XL® 9/16" suspension system in custom colors and Axiom® Classic custom curved trim in White



PLACES TO HEAL



PLACES TO PLAY



PLACES TO GO



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

1 800 988 2585
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

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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