



## Experience, Above All

## **AcoustiBuilt**<sup>®</sup>

Seamless Acoustical Ceiling & Wall System **Design Guide** 



# Smooth and **Clean** Monolithic Visual

The AcoustiBuilt<sup>®</sup> seamless acoustical ceiling and wall system provides the clean monolithic visual of drywall with Total Acoustics<sup>®</sup> and Sustain<sup>®</sup> performance. AcoustiBuilt combines excellent acoustical performance and sustainability attributes with efficient installation for a wide variety of spaces.

- Excellent acoustical performance of up to NRC 0.80 and CAC 46
- Use AcoustiBuilt on ceilings for wall-to-wall, cloud, sloped, or soffit applications, and in wall applications above 7 feet
- Smooth non-directional, monolithic, drywall-like visual (Level 4 equivalent finish)
- · Custom colors available to meet your design palette
- Quick, easy panel installation using FrameAll<sup>™</sup> Drywall Grid
- Faster and easier to install and repair than acoustical plaster at a lower cost



AcoustiBuilt Ceiling System Parker Poe Corporate Office Charlotte, NC

# Seamless and Monolithic





AcoustiBuilt Ceiling System; REGENXBIO Regional Office; Rockville, MD



# Seamless Aesthetics

The AcoustiBuilt<sup>®</sup> seamless acoustical ceiling and wall system combines the monolithic look of traditional drywall with Total Acoustics<sup>®</sup> performance – 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.

View AcoustiBuilt Project Gallery

#### Total Acoustics<sup>®</sup> Performance

Whether you're creating a space for quiet concentration, collaboration, or confidentiality, one ceiling system meets the needs for today's flexible spaces.



The AcoustiBuilt® seamless acoustical ceiling and wall system provides high sound absorption (NRC up to 0.80) and high sound blocking up to CAC 46 to achieve Total Acoustics® performance.

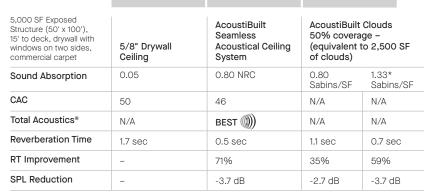
AcoustiBuilt cloud installations can enhance the design and acoustical performance of a space and will absorb sound from both the front and back surfaces.

In wall applications, AcoustiBuilt panels improve the STC of interior stud/drywall partition systems by up to 6 points for added sound blocking.

- STC Rating\*\*
- 1 Side: 42
- 2 Sides: 43

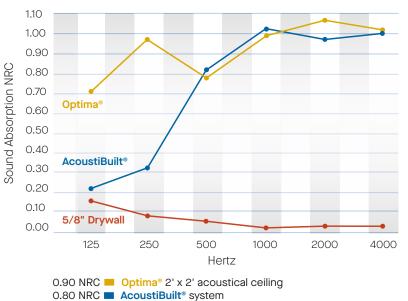
\*\*3-5/8" metal studs with one layer of 5/8" drywall on both sides and AcoustiBuilt panels on one or both sides of the wall.

#### AcoustiBuilt® vs. Drywall Acoustical Comparison



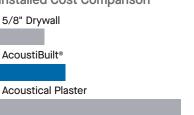
\* 1.33 Sabins/SF achieved using infill panel Item 8200T10

#### Sound Absorption Comparison



0.05 NRC = 1 layer 5/8" Drywall on drywall grid

Installed Cost Comparison



#### Total Acoustics® Performance

AcoustiBuilt<sup>®</sup> panels are part of the Sustain<sup>®</sup> portfolio which contributes to healthy spaces. Here's how:

- · Are free of Red List chemicals per Living Building Challenge® 4.0
- Have Health Product Declarations (HPDs) which tell you what's in the product
- Have Environmental Product Declarations (EPDs) which tell you the impact of the products
- · Have Declare® labels easy reference "nutrition labels"
- Are UL<sup>®</sup> Greenguard Gold<sup>®</sup> certified and meet California Department of Public Health (CDPH) low emissions standards
- Contribute to LEED® v4 and v4.1
  - Living Building Challenge®
  - WELL Building Standard®
  - Fitwel® Building Standard
- Are listed in mindful MATERIALS and the Embodied Carbon in Construction Calculator (EC3) tool







GREENGUARD

**Gold Certified** 

**Declare**<sup>1</sup>

AcoustiBuilt Ceiling System: GWWO Architects Office, Baltimore, MD



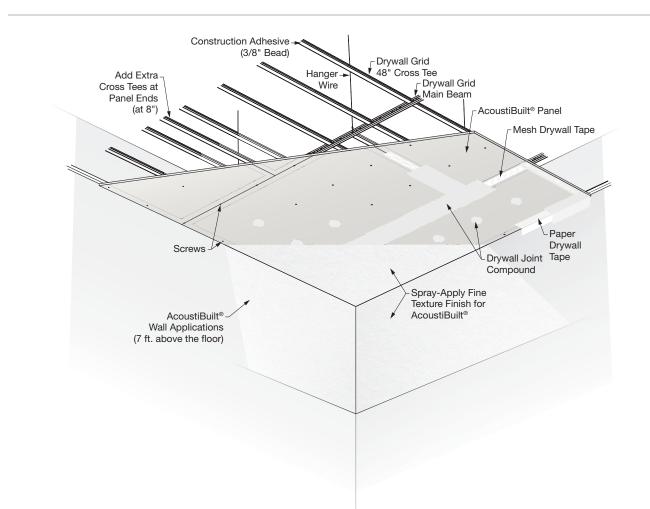
#### System Overview

The AcoustiBuilt<sup>®</sup> seamless acoustical ceiling system looks and installs like drywall but has been engineered to absorb and block sound. AcoustiBuilt uses an acoustically transparent fine-texture finish applied in layers to allow sound to pass through and be absorbed by the mineral fiber panels.

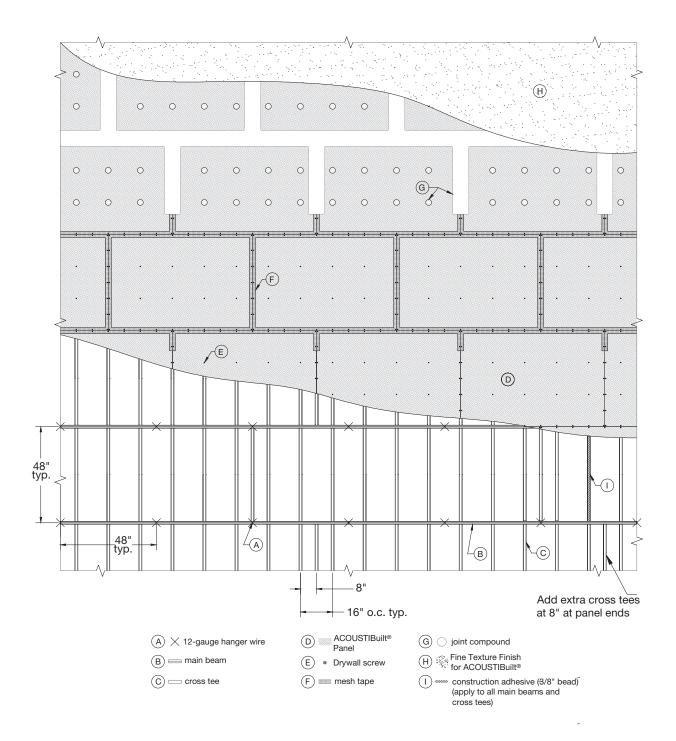
The AcoustiBuilt panels are attached to the FrameAll<sup>™</sup> Drywall Grid with adhesive and screws, then the ceiling is finished just like drywall. Glue and screw panels to existing drywall on walls above 7 feet.



AcoustiBuilt Ceiling System - Cloud Installation; In8Bio, Birmingham, AL



The typical system layout below shows a standard wall-to-wall ceiling application of AcoustiBuilt®.



#### **Total Acoustics® Performance**

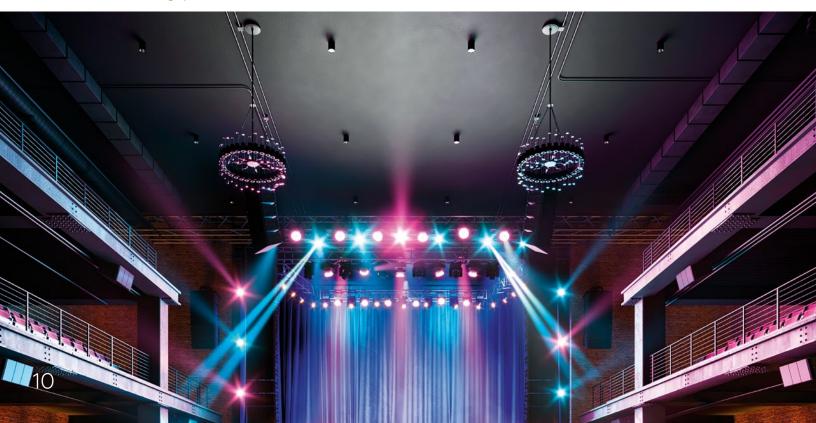
Applications – The AcoustiBuilt® ceiling and wall system can be used in almost any application where standard drywall is used, including wall applications (above 7 feet), flat, sloped, soffit, or cloud ceiling applications. AcoustiBuilt is seismic D, E, F tested and approved. AcoustiBuilt cannot be installed in curved ceiling applications. Use AcoustiBuilt for open-air plenum applications.

**Color** – The AcoustiBuilt fine-texture finish is available standard in both White (LR of 0.87) and Black (LR of 0.08). Custom colors are available to meet your design palette. Custom colors will appear one or two shades darker than a standard paint color sample when applied due to the fine texture finish. **Lighting** – AcoustiBuilt panels are intended for spaces desiring a Level 4 equivalent drywall finish. Like Level 4 drywall, critical or low-angle light grazing across the ceiling can show imperfections. Special attention to finishing and sanding may be required. Downlights can complement the appearance in severe grazing light.

Installation is similar to standard wallboard and drywall suspension systems. However, it requires more precision and a higher level of finish to achieve an acceptable appearance. Lighting conditions can magnify surface imperfections, especially natural light that shines from oblique angles. It is strongly recommended that a job site mockup be constructed with representative lighting so that expectations regarding the finished appearance are managed.

Acoustical Performance – Excessive ceiling integrations and/or small enclosed spaces, where the ceiling is more joint compound than open area, will result in degradation of sound absorption. Light tone colors may require an additional coat of fine-texture finish, resulting in a slight degradation of sound absorption.

AcoustiBuilt® Ceiling System in Black Fine-Texture Finish





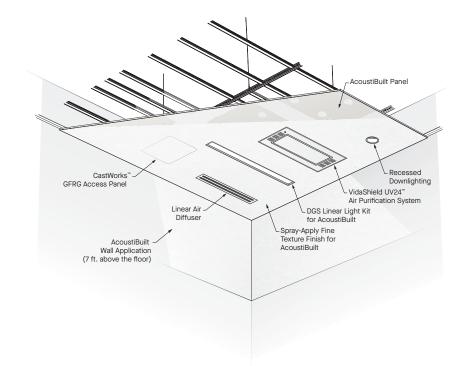
AcoustiBuilt® Ceiling System; BancFirst Oklahoma City, OK

#### Design Details and Integration

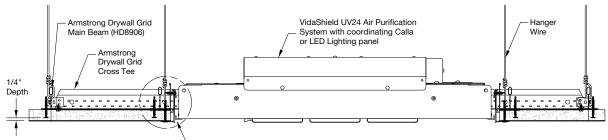
AcoustiBuilt<sup>®</sup> installed on FrameAll<sup>™</sup> Drywall Grid in ceiling applications offers comparable compatibility to standard drywall and easily accommodates a wide variety of conventional and Armstrong partner light fixtures, HVAC diffusers, access doors, and transitions to standard acoustical ceiling systems. The AcoustiBuilt fine-texture finish can be used to coat most GFRG or metal access panels/doors in order to maintain a consistent finishedceiling visual.



AcoustiBuilt Ceiling System; Beiersdorf Office; Stamford, CT

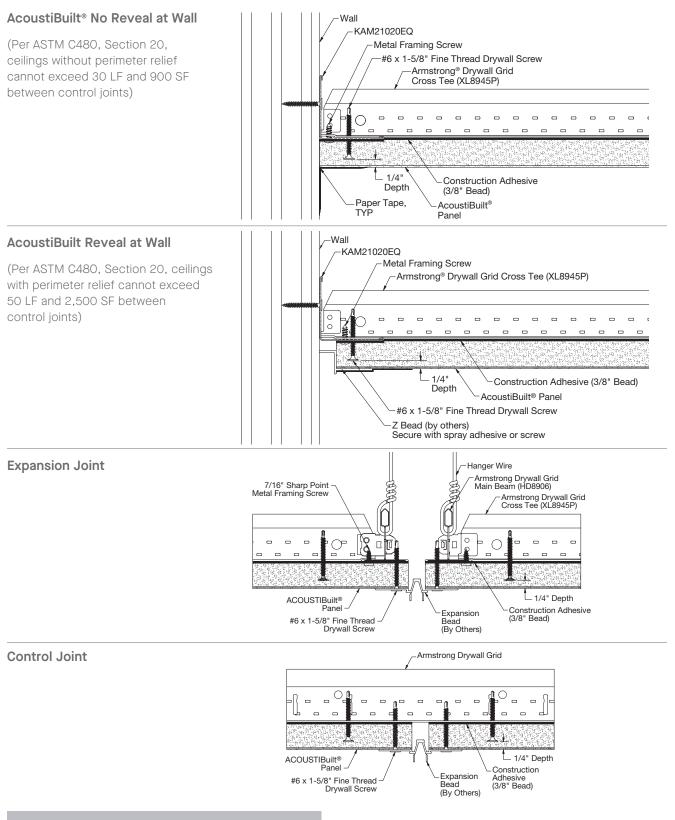


VidaShield UV24<sup>™</sup> with AcoustiBuilt Trim Kit

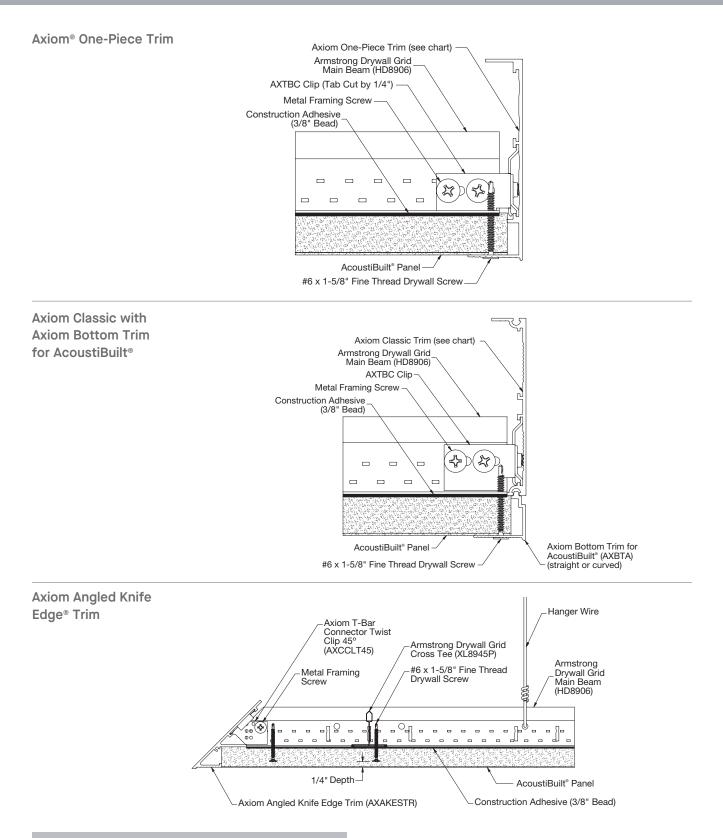


VidaShield UV24 Drywall/AcoustiBuilt Trim Kit

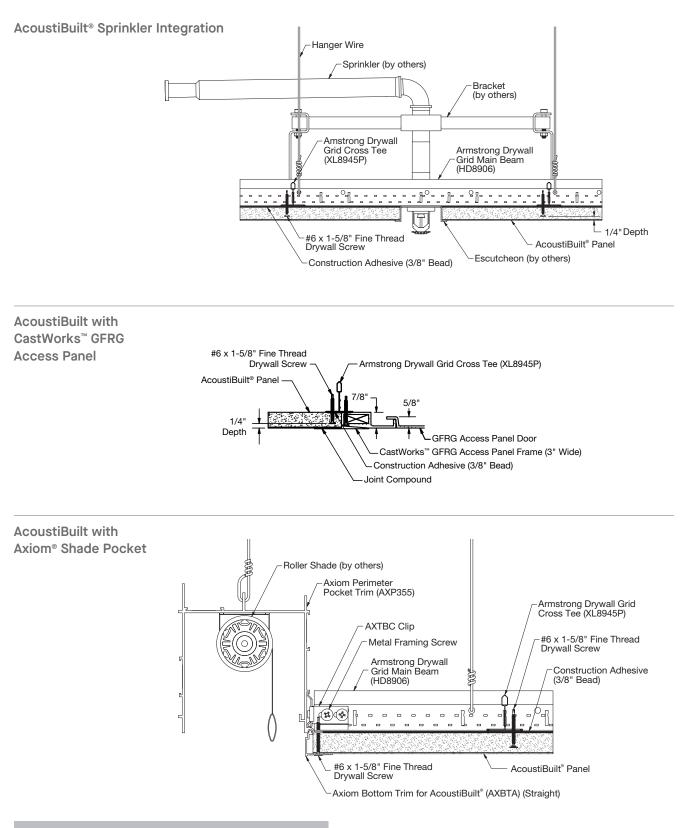
#### Typical Details



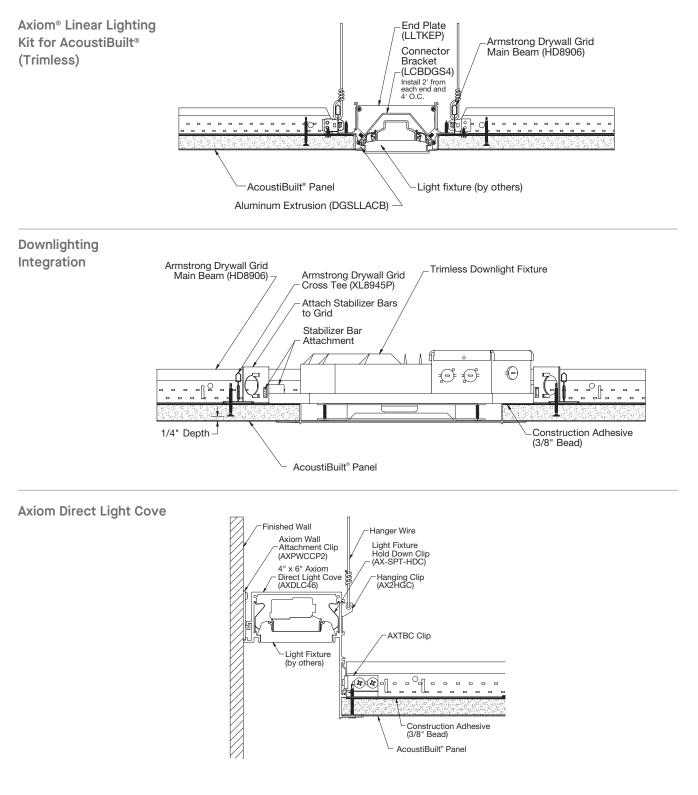
Floating Edge Details



**Common Integration Details** 

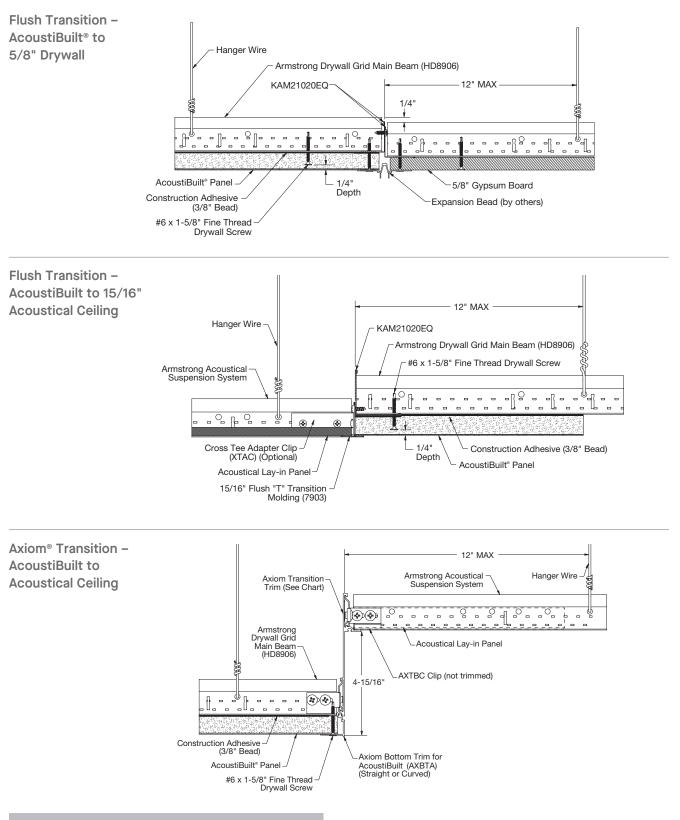


#### Lighting Integration Details

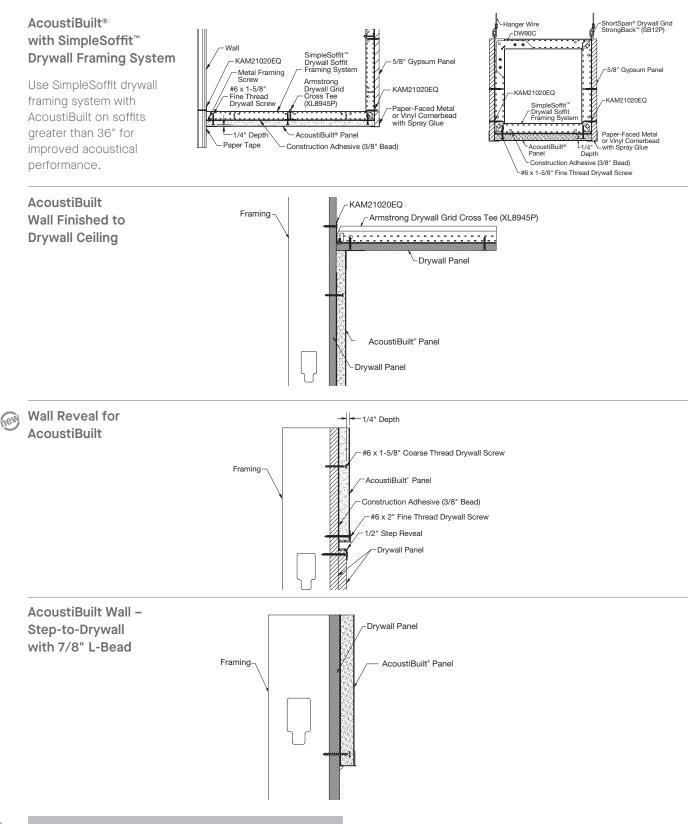


(Available Cove heights: 4" and 6")

#### Typical Details



#### Wall and Soffit Details





AcoustiBuilt® Ceiling System: Children's Research Hospital; Memphis, TN

## TAKE THE NEXT STEP

#### Experience, Above All™

#### 877 276 7876

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

TechLine – 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

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