Learning Beyond Expectations

Desiging for Quiet

Managing Noise in Adaptive Reuse Projects

Participants
This course is designed for architects, specifiers, design professionals, architecture and design students, building owners and others that have a desire to learn more about building sound control. The course is for those that already have a familiarity with building acoustics. It is recommended that participants have an understandng of sound transmission design concepts.

Presentation Format
This course uses PowerPoint with audio and video. It may be presented in-person at your office or virtually.

Technology Requirements
The course requires projection capabilities for the PowerPoint presentation, power and an HDMI connection.

Presentor Qualifications
PABCO® Gypsum is a division of PABCO Building Products, a division of Pacific Coast Build Products, an AIA Certified Continuing Education Provider.

All speakers are approved Pacific Coast Building Products presenters.

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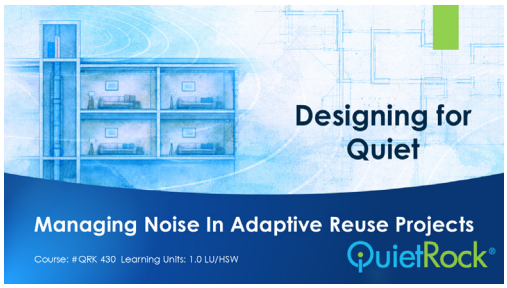
Description
When vacant commercial buildings are adapted for multifamily residential or mixed-use occupancy, acoustic performance frequently becomes a critical design risk. Wall assemblies, structural systems, and mechanical infrastructure originally intended for office environments often allow excessive sound transmission that can negatively impact occupant health, comfort, and residential livability.

This course examines the most common acoustic challenges encountered in commercial-to-residential adaptive reuse projects and pairs each challenge with practical, design-based solutions. With an emphasis on sound transmission through walls and the limitations of Sound Transmission Class (STC) ratings, the course explores how flanking paths, structure-borne noise, HVAC systems, and detailing influence real-world acoustic performance. Participants will learn how early, architect-led design strategies and interdisciplinary coordination can improve field sound isolation outcomes, reduce post-occupancy noise complaints, and support occupant health, safety, and welfare.

Learning Objectives
At the conclusion of this course, participants will be able to:

1. Master acoustic design in adaptive reuse by identifying sound transmission paths, applying mitigation strategies, and optimizing STC ratings.
2. You will evaluate building assemblies and systems through interdisciplinary coordination to ensure occupant health and comfort in commercial-to-residential conversions.
3. Be able to explain why Sound Transmission Class (STC) ratings alone are insufficient for predicting acoustic performance when adapting existing commercial structures.
4. Learn when and where the performance to cost ratio shifts occur in sound-rated wall design.

Credits
Learning Units 1.00 LU/HSW





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Provider #: Pacific Coast Building Products, T044
Course #: QRK 430

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