



**America  
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ATS CONTINUING EDUCATION  
ONLINE\_SEMINAR  
Acoustic and Sound Control Design Solutions -  
North America - FALL  
Tuesday, September 19, 2023



12:00 PM [Welcome, Credits, and Certificates](#)

12:05 PM **Acoustic Door Assemblies and Their Role in Sound Control**

Sound control is a critical element to a building's design. How an occupant will use the space must be understood in order to deliver a healthy and functional environment free of noise. Is speech privacy important? Is this a learning environment? Does the office open to a manufacturing floor? We all think of the walls, ceiling, and floor when discussing sound attenuation. But we must not overlook the importance of an acoustic-door assembly. Without the proper acoustic door, the sound-control goals in an acoustic plan may not be met. This course will review healthy sound levels and how to test and identify target STC ratings. We'll discuss the elements of the acoustic-door assembly and how the assembly addresses fire-ratings and ADA compliance, contributes to LEED certification and green building, and provides security for classified files and electronic data.

Jack Shinder  
Ambico Ltd. Provider #: J834  
AIA #:AAD001 HSW | GBCI (USGBC/CAGBC) #:920024242

01:05 PM [Review of Session Code Process](#)

01:10 PM **Demystifying Acoustics of Floor/Ceiling Assemblies**

This presentation defines building code requirements and outlines acoustic principles. In addition, we will discuss efficient means of acoustic insulation using multiple floor/ceiling assemblies for Concrete, Steel, light wood-frame and mass timber buildings. You will also be able to hear different sound/acoustic ratings. This presentation will benefit building and design professionals such as architects, designers, acoustic engineers, builders/developers and general contractors.

Cristian Wallace  
AcustiTECH Provider #: 406119285  
AIA #:Acoustic2021 HSW

02:10 PM [Break](#)

02:20 PM **Don't Let Your Good Sound Isolation Go Up in Smoke!**

Partitions used for sound isolation are often required to also provide fire resistance. This is especially true in multi-family construction where the vast majority of unit demising walls and floor/ceiling assemblies must be fire rated. Solid working knowledge of fire-resistive designs is essential for architects to design acoustic partitions that can actually be built on-site. There are many design elements that work well for fire and for acoustics, but there are also areas where what works well for fire can be at odds with what works well for acoustics. In this presentation, we will look at the elements of acoustic and fire design both for basic wall and floor/ceiling assemblies and for design details like wall-wall and wall-ceiling intersections.

Mike Raley  
PAC International Provider #: 10008841  
AIA #:PAC002 HSW

03:20 PM

### Acoustical Design for Mass Timber Floors

This introductory course is intended to give the architect a basic understanding of various paths to meeting project goals addressing STC (airborne sound), IIC (structure-borne sound), natural frequency, and vibration control in mass timber buildings. Third-party lab test data and assembly details will be discussed as relating to various types of mass timber panels including CLT, NLT, GLT, and DLT.

Aedan Callaghan  
Pliteq Inc. Provider #:  
AIA #:MT042021 HSW

04:20 PM

End



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