

SOUND ABATEMENT & NOISE CONTROL

CEU CREDITS: 1 LU | HSW

This presentation introduces the concepts of mitigating unwanted noise using concrete masonry assemblies and systems. Topics covered include a basic review of sound and noise, what requirements are mandated by building codes to address sound control, how to determine the sound transmission class and inside-outside transmission classification of building assemblies, noise reduction coefficients, and proper methods of detailing concrete masonry systems to maximize its effectiveness as a sound barrier.

Objectives:

- Common sources of internally and externally generated sounds and code minimum requirements for mitigating unwanted noise.
- Standardized means of calculating the sound transmission class (STC) and outside-inside transmission classification (OITC) of concrete masonry assemblies.
- Reflected versus absorbed sound and the role of the noise reduction coefficient in concrete masonry design.
- Appropriate layout and detailing options for maximizing sound reduction within buildings for optimum user comfort.



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