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AIA Continuing Education

MULTI-FAMILY SOUND CONTROL

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American Institute of Architects Keene Building Products Outline

Outline for Sound Control Learning Objectives

- Two measurements of noise two ASTM standards
  - Sound Transmission Classification (STC) – Airborne Noise
  - Impact Insulation Classification (IIC) – Vibration Noise
- General ways of improving noise
- Understanding the ASTM E492 impact noise
  - Examples – comparison of 56 vs. a 57
  - Examples – comparison of a 54 vs. a 56
- Noise control is accomplished in a system
- One component isn't the solution to controlling noise
- Effects of each component
- Spring is in the design aa SPRINGS resilient channels
- NOISE ANATOMY product effectiveness
- Ceiling details and flanking
- Proper isolation of ceiling (drawing/diagram)
  - A – Short circuit resilient channels
  - B – Resilient channel in contact with wall structure
  - C – Gypsum ceiling in contact with wall structure
  - D – Gypsum wall in contact with gypsum ceiling
  - E – Gypsum wall in contact with subfloor
- Short circuits in ceiling install (drawing/diagram)

An Architect Developer Partnership

- Things to consider in a new project
- Other considerations
- Look to experts
- Qualities of a good sound mat
- Mass of gypsum concrete
- Joist assembly alternatives

Entangled Net Systems

- Systems from 0.25" to 1.75" in thickness
- Entangled nets are…
- Selecting the budget for sound mat

Entangled Net Systems – Drawings of Gypsum Concrete and Entangled Net

- Choosing a fabric: regular or moisture control
- 4.0-inch Perimeter Isolation

Call today to set up a lunch meeting with

Keene Building Products

877-514-5336

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LEARNING OBJECTIVES

- » Review how noise results are measured and types of noise in building design
- » Discuss and identify the most common acoustical systems for quiet living in multi-family, and understanding that one component is not the solution in controlling noise
- » Compare the performance of various building materials needed to reach certain classification standards, as well as establish the benefits of living in noise-free environments
- » Establish the best practices for healthy living with the use of an entangled net sound system

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