



# Multi-Family SOUND CONTROL

## Receive AIA Continuing Education Credits

### American Institute of Architects Keene Outline

- ✓ Learning objectives outline for sound control
- ✓ 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 a 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
- ✓ 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 sound mat (budget, midrange, top-of-the-line)

#### Entangled Net SYSTEMS – Drawings of Gypsum Concrete and Entangled Net

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



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### Learning Objectives

- ✓ Understanding noise and measuring results
- ✓ Idea's on how to design for quiet living in multi-family
- ✓ The components of entangled net sound systems

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