

Multi-Family SOUND CONTROL

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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

- ✓ 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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