

Wood-Frame Ceiling Hanger Model ICW



Ceiling Isolation Theory

Resiliently suspended ceiling systems are designed to minimize floor impact noise and airborne sound transmissions through the floor/ceiling structure. Creating airspace and resiliently decoupling the mass of the isolated ceiling from the non-isolated structure can effectively control noise transmission. Kinetics Noise Control ceiling isolation products use various types of resilient decouplers including springs, rubber or fiberglass pads, and combinations of pads and springs to improve Sound Transmission Class (STC) and Impact Insulation Class (IIC) values.

Application

Secured to wood-frame construction (e.g., joists, trusses), Model ICW incorporates a one-inch (1") rated deflection spring in series with a neoprene cup to resiliently support one or more layers of gypsum board. The unique design of the Model ICW bracket allows the isolator to be installed on the joists to optimize ceiling height. A channel clip/leveling rod assembly is designed to carry a single piece of 1-1/2" x 1/2" 16-gage steel carrying channel. Drywall furring channel is attached to the carrying channel. The system provides the installer with a means for leveling the isolated ceiling framing.

Gypsum board attaches quickly and easily thanks to a preload spacer that holds the isolator rigid until the weight of the gypsum board compresses the spring. Incorporate Model ICW into any isolated ceiling design where one-inch (1") rated spring deflection and minimal reduction in ceiling height are needed for superior performance coupled with low-profile design.

Benefits

- Maximum natural frequency of 4.4 Hz under lightest typical load conditions.
- STC 76, IIC 62 with Model ICW attached to 2" x 10" joists and suspending two (2) layers of gypsum board with 3-1/2" fiberglass batt in airspace.
- Multiple features incorporated into the design ensure inexpensive installation.
- Spring/neoprene cup combination improves performance against low-frequency noise.
- Actual installed load can vary between 75% and 150% of rated load without significant impact to ceiling performance.

UL Fire Rated Assemblies

Design No. L521

Floor/Ceiling Assembly using parallel chord wood trusses. See Item 6C in listing.

Design No. L581

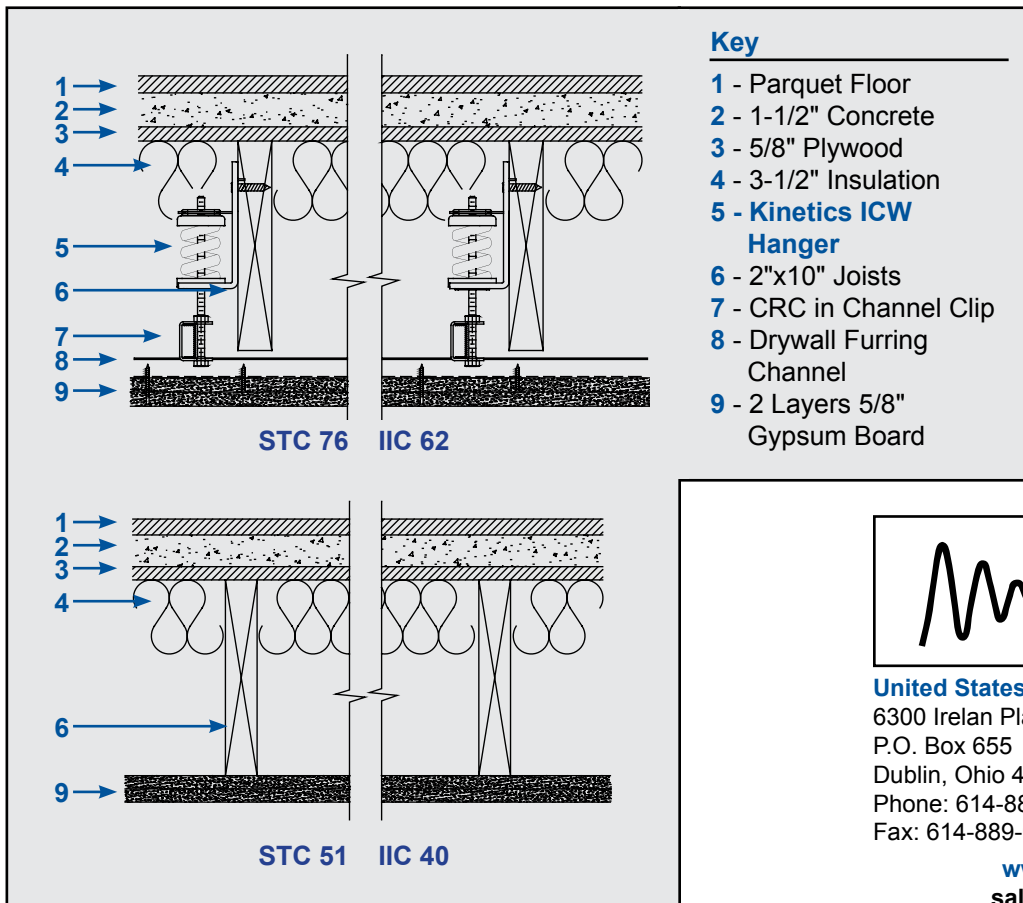
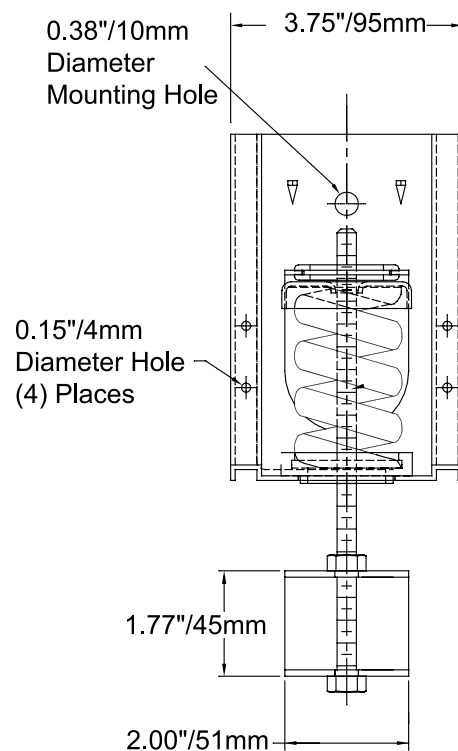
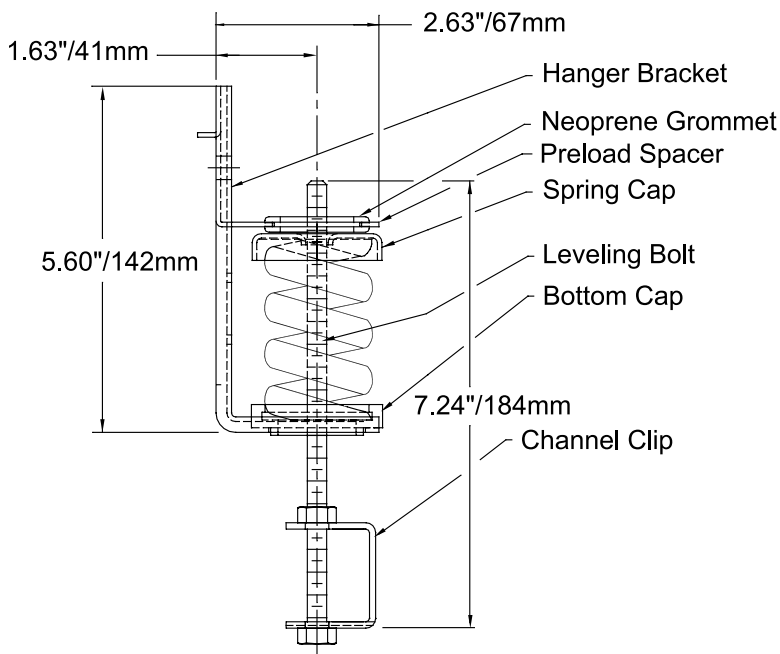
Floor/Ceiling Assembly using various structural wood and wood/steel members. See Item 6 in listing. Design L581 allows for substitutions of many joist types. See the complete certification of details.

Design No. P522

Roof/Ceiling Assembly using either pitched or parallel chord wood trusses. See Item 6B in listing.



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Download Model IsoMax information including three-part specification, installation guidelines, and typical installation drawings at www.kineticsnoise.com/arch/isomax. Call the factory at 800-959-1229 if needing additional information; ask for Architectural sales. Purchase Model IsoMax and accessories through your local sales representative (www.kineticsnoise.com/arch/rep/).

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