

QUICK CONNECT CEILING HANGER **MODEL IsoGrid** INSTALLATION GUIDELINES

Preparation

1. Installation of an isolated ceiling system that uses Kinetics Noise Control Model IsoGrid ceiling hangers requires the following materials (as specified by others and purchased separately):
 - A. 1-1/2" x 1/2", 16-gauge cold-rolled channel
 - B. 7/8" 20- to 25-gauge drywall furring channel
 - C. Appropriate wire (per local code)
 - D. Anchors for mounting wire into non-isolated ceiling substrate
 - E. 1/2" or 5/8" thick gypsum board
 - F. Appropriate tools and equipment for installation

Please note: If submittal drawings have been prepared for the installation, review drawings for completeness and accuracy; otherwise, refer to Selection Guidelines for selecting ceiling hangers.

Installation

2. Mark grid pattern and ceiling hanger position on existing non-isolated ceiling using the following criteria:
 - A. Isolators installed at the perimeter must be located not more than 16" and not less than 3" from the edge of the isolated ceiling; ideally isolators should be 12" from the edge of the isolated ceiling.
 - B. Isolators may be located up to 48" along the perimeter of the isolated ceiling.
 - C. Isolators mounted mid-room (i.e., those isolators not at the perimeter) may be located up to 48" on center each way (o.c.e.w.); mid-room isolators should be spaced evenly in each direction.

Please note: Submittal drawings, if provided, override general location guidelines provided above.

3. Remove Model IsoGrid Ceiling Hangers from box. Confirm capacity of each isolator to ensure proper location in grid by observing the small colored dot on the side of the rubber element (See chart below).

| Model IsoGrid | Dot Color | Recommended Layers of Drywall | Maximum Capacity (lbs.) | Deflection Range (in.) |
|---------------|-----------|-------------------------------|-------------------------|------------------------|
| 40 | White | 1 | 41 | .2 |
| 105 | Green | 2 | 106 | .2 |
| 160 | Gray | 3 | 158 | .2 |

If provided, submittal drawings will identify location of specific hanger by capacity rating.

4. Determine orientation of cold-roll channel, typically oriented along longest dimension of room (orientation is not important acoustically).

5. Fasten Model IsoGrid ceiling hanger to a concrete ceiling with a power-actuated fastener such as a Hilti X-DNI general purpose nail with a Hilti R-23 washer or other fastener as allowed by the local building code.

Please note: A Hilti representative can help you select the proper length nail for your specific application by calling 1-800-879-8000.

For example: A Model IsoGrid 160 fastened to 2000-4000 psi concrete slab would require 1.5" of nail embedment to hold the desired load. Therefore a Hilti X-DNI 82P8 nail would be required.

6. Squeeze legs of the IsoGrid bracket together
7. Tie wire through the holes on both sides of the Model IsoGrid bracket using appropriate practices for ceiling grid installation.
8. Position the cold-rolled channel at desired height. Prevent contact between cold-rolled channel and partition/wall/column or any other non-isolated structural component. Leave at least a 3/8" gap between cold-rolled channel and the non-isolated structure.
9. Tie free end of wire around cold rolled-channel using appropriate practices for ceiling grid installation.
10. Attach drywall furring channel to cold-rolled steel and inter-connect the ends of the furring channel using appropriate practices for ceiling grid installation. Furring channel cannot contact non-isolated structural components. Leave at least a 3/8" gap between cold-rolled channel and the non-isolated structure.
11. After assembling the ceiling grid, check for levelness. Loosen or tighten the wire to adjust the level of the grid.
12. Install Model SRP perimeter isolation board around partitions/walls, columns, and any non-isolated building components to insure a 3/8" wide decoupling gap between the isolated ceiling and the non-isolated structure. The model SRP should be installed from approximately 7/8" below the bottom of the hat channel to the top of the cold-rolled channel
13. Install the gypsum board using accepted practices for attaching to the grid system. Be certain to maintain a 3/8" gap between non-isolated structural components and the isolated ceiling to ensure that the gypsum board does not contact any non-isolated structural components. Do not allow the Model SRP to become compressed against the non-isolated structure.
14. Trim Model SRP as required and caulk gap using a resilient, non-hardening caulk.

Disclaimer

These suggested installation guidelines represent generally accepted procedures for successful installation of Kinetics Noise Control Model IsoGrid Quick Connect Ceiling Hanger for ceiling system isolation. These suggestions may be followed, modified, or rejected by the owner, engineer, contractor, and/or their respective representative(s) since they, not Kinetics Noise Control, are responsible for planning and executing procedures appropriate to a specific application. Kinetics Noise Control reserves the right to alter these suggestions and encourages contact with the factory or its representatives to review any possible modification to these suggested guidelines prior to commencing installation