

AF Ceiling Isolation Hanger

Specification

Part 1 – General

1.01 Work Included

- A. Furnish all labor, materials, tools and equipment, and perform all operations necessary for the installation of resiliently suspended ceilings shown on contract drawings.

1.02 System Description

- A. Resiliently suspended gypsum ceilings, where shown on drawings, shall be isolated from the building structure in order to increase their ability to reduce sound transmission.

1.03 Quality Assurance

- A. The resilient isolation hangers and perimeter isolation material shall be designed and fabricated at the facilities of a nationally recognized manufacturer having a minimum of five years experience in furnishing similar materials.

Part 2 – Products

2.01 Materials

- A. The sound isolation materials specified herein shall be designed and manufactured by Kinetics Noise Control, Inc. Dublin, Ohio
- B. Ceilings shall be supported by AF Ceiling Isolation Hangers. Resilient hangers shall have sufficient capacity to sustain continuously applied ceiling weight without settling after initial deflection.
- C. The ceiling isolation hanger shall consist of a one-inch (1”) thick, pre-compressed, molded fiberglass isolator. The fiberglass isolator shall be encased in an anti-short-circuit, reinforced steel bracket which will accommodate up to #8 suspension wire or a ¼” bolt or screw. The hanger bracket shall be zinc-plated, reinforced steel and shall carry a five (5) times maximum rated load overload without failure.
- D. The isolation hanger deflection shall be selected by the manufacturer to provide a maximum natural frequency of 15.5 Hz.

- E. Resiliently suspended ceilings shall be separated where non-isolated building components abut. Isolation material shall be 1/4" thick CPT perimeter isolation board. CPT shall not be penetrated by nail, screw, or similar fastener. CPT shall be adhered to non-isolated structure. Resiliently-suspended ceiling shall be constructed against CPT. CPT shall be sealed using resilient, non-hardening caulk.

Part 3 – Execution

3.01 Installation

- A. The installation of all sound isolation materials specified herein, including those installed under other sections of the specifications, shall be in accordance with procedures submitted by the isolation material manufacturer, and approved by the Architect.
- B. The ceiling isolation hangers shall be mounted not more than twelve-inches (12") from the perimeter and not more than forty-eight-inches (48") along the perimeter of the isolated ceiling. Mid-room ceiling isolation hangers shall be mounted not more than forty-eight-inches (48") on center, each way (o.c.e.w.).
- C. All building components supported by the isolation hangers shall be free from rigid contact with any part of the non-isolated building structure to prevent unwanted sound flanking.