IsoMax Sound Isolation Clip Specifications

Part 1 General

1.01 Work Included

A. Furnish all labor, materials, tools, and equipment to install sound isolated walls and/or ceilings. Construct walls and/or ceilings using the sound isolation clip where shown on contract drawings.

1.02 System Description

A. Gypsum board shall be attached to resiliently supported furring channel to sound isolate the material from the wall or ceiling structure. This resilient attachment substantially reduces sound transmission through the wall or ceiling.

1.03 Quality Assurance

A. The resilient sound isolation clips shall be designed and fabricated at the facilities of a manufacturer having a minimum of five years' experience in furnishing similar sound control products.

1.04 Submittals

A. Submit product data

1. Catalog cut sheet.

2. Sound Transmission Loss Test Report per ASTM E90-99 documenting a minimum STC 57 wall assembly for a 2 in. x 4 in. wood stud wall with one layer of 5/8 in. gypsum board on each side. Also submit same report for a 2 in. x 4 in. wall assembly with two layers of 5/8 in. gypsum board on each side achieving a minimum STC 64.

3. Sound test reports must be from an independent laboratory accredited by the National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP).

Part 2.00 Product

2.01 Materials

A. Sound isolation clips specified shall be designed and manufactured by Kinetics Noise Control, Dublin, Ohio. Product shall be Model Iso-Max Sound Isolation Clips. Represented by KPA Architectural Products in New England – Contact Keith Peterson (508) 591-7500

B. Vertical Load capacity. Clips shall have sufficient capacity to support wall or ceiling weights as constructed. In a vertical load test comparible to a ceiling installation, the clip shall have a minimum design load capacity of 36 lbs. using 25 gauge furring channel. The minimum design load capacity when using 22 gauge furring channel shall be 48 lbs. Design Load capacity shall be based on a safety factor where the load to failure, defined as pullout of the channel from the clip, is a minimum 2.5 times the allowable maximum Design Load. Anchors for attachment of the clips to the substructure shall be selected to support wall and/or ceiling weights at each clip.

C. The isolation clips shall consist of a rubber element into which a standard galvanized steel furring channel, 7/8 in. x minimum 25 gauge, is captured. The channel legs snap fit into the rubber element without any metal-to-metal or other rigid contact with building elements.

D. The isolation clip is attached to the wall/ceiling framing or other structural substrate through galvanized steel brackets on each side of the rubber isolation element. The brackets shall be of sufficient strength to carry the wall or ceiling weight without bending or failure.

Part 3.00 Execution

3.01 Installation

A. General – Install work in accordance with the manufacturer's approved product installation procedures.

B. Spacing and location of sound isolation clips shall be determined by the manufacturer based on wall or ceiling type. Installation drawing details shall be provided by the manufacturer to assure optimum sound control and structural integrity of the system.