

IsoGrid Specifications

Part 1 General

1.01 Work Included

- A. Furnish all labor, materials, tools, and equipment to install sound isolated ceilings. Construct ceiling composite using the quick connect ceiling hanger where shown on contract drawings.

1.02 System Description

- A. Gypsum board shall be attached to the resiliently supported ceiling grid to isolate the material from the wall or ceiling structure thereby reducing sound and impact transmission through the ceiling.

1.03 Quality Assurance

- A. The quick connect ceiling hanger 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 documenting a minimum STC 63 floor/ceiling assembly for a 6 in. concrete slab with 2 layers of gypsum board suspended 6 in. below the bottom of the concrete slab and fiber glass batts in the cavity.
3. Impact Insulation Test Report per ASTM E413 documenting a minimum IIC 50 floor/ceiling assembly for a bare 6 in. concrete slab with 2 layers of gypsum board suspended 6 in. below the bottom of the concrete slab and fiber glass batts in the cavity.
3. 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) or from the Institute for Research in Construction (IRC) of the National Research Council of Canada (NRC-C)

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 IsoGrid Quick Connect Ceiling Hanger. Represented by KPA Architectural Products in New England – Contact Keith Peterson (508) 591-7500
- B. Vertical Load capacity. Ceiling hangers shall have sufficient capacity to support ceiling weights as constructed. In a vertical load test comparable to a ceiling installation, the ceiling hanger shall have a minimum design load capacity of 160 lbs. Design Load capacity shall be based on a minimum safety factor of 5 as compared to load to failure. Anchors for attachment of the clips to the substructure shall be selected to support ceiling weights at each hanger.
- C. The isolation clips shall consist of a dual deflection rubber element which supports the hanger bracket on the hanger sleeve insert.
- D. The isolation clip is attached to the floor/ceiling framing or other structural deck substrate through the hanger sleeve insert running through the rubber element. The bracket and insert shall be of sufficient strength to carry the 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.