

# **Muta Hanger Wire-Tie Ceiling 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 airborne sound and impact noise 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 ten 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.  
Represented by KPA Architectural Products in New England –  
Contact Keith Peterson (508) 591-7500
- B.** Ceilings suspended below concrete, metal deck composite, or structural steel framing shall be supported by resilient isolation hangers. Resilient hangers shall have sufficient capacity to sustain continuously applied ceiling weight without settling after initial deflection. Hangers shall be Kinetics Noise Control, Inc., Muta Hanger.
- C.** The isolation hanger shall be a combination high-deflection steel spring in series with a resilient, molded neoprene noise and vibration isolation pads at top and bottom of the hanger bracket. The steel spring and neoprene pads shall be incorporated into a stamped steel hanger assembly that resiliently supports the isolated ceiling.

- D. The hanger assembly bracket shall allow fifteen (15) degrees of vertical alignment of the suspension member without making metal-to-metal contact between both suspension and hanger assembly members. The hanger shall incorporate welded eyebolts top and bottom. The welded eyebolts shall be used both to suspend the hanger by wire and to suspend drywall ceiling grid. The isolation hanger deflection shall be selected by the manufacturer to provide a maximum natural frequency of 4.4 Hz. The steel spring element shall have a minimum Kx to Ky of 1 at its 1" rated deflection.
- E. Resiliently suspended ceilings shall be separated where non-isolated building components abut. Isolation material shall be 3/8" thick Model SRP perimeter isolation board. Model SRP shall not be penetrated by nail, screw, or similar fastener. Model SRP shall be adhered to non-isolated structure. Resiliently-suspended ceiling shall be constructed against Model SRP. Model SRP 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. Contractor is responsible for supplying all loads suspended by the isolation hangers and related documents for coordination, so that shop drawings can be performed by the manufacturer or its representative for proper layout and spring selection. Architect approved shop drawings required prior to installation.
- B. 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.