SECTION 09 21 16

RESILIENT SOUND ISOLATION CLIPS – RSIC®-ADAPT

PART 1 – GENERAL

1.1 SUMMARY

Furnish and install resilient sound isolation clips for ceiling assemblies to reduce structure-borne sound and vibration transmission by decoupling gypsum board support systems from the building structure.

Products covered under this Section include RSIC®-ADAPT ceiling isolation clips as manufactured by PAC International, LLC.

Ceiling assemblies may include wood framing, steel framing, concrete structures, or metal deck substrates.

1.2 RELATED SECTIONS

1. Section 09 50 00 – Ceilings
2. Section 05 40 00 – Cold-Formed Metal Framing
3. Section 06 10 00 – Rough Carpentry
4. Section 09 22 16 – Non-Structural Metal Framing
5. Section 09 29 00 – Gypsum Board
6. Section 09 54 00 – Acoustical Ceilings
7. Section 07 21 00 – Thermal and Acoustical Insulation
8. Section 07 84 00 – Firestopping.

1.3 REFERENCES

ASTM C645 – Nonstructural Steel Framing Members

ASTM C754 – Installation of Steel Framing Members

ASTM C840 – Application and Finishing of Gypsum Board

ASTM C1002 – Steel Self-Piercing Tapping Screws

SSMA – Steel Stud Manufacturers Association Standards

1.4 SUBMITTALS

Product data and installation instructions for RSIC®-ADAPT, including mounting options, load ratings, and spacing requirements.

Manufacturer's published RSIC®-ADAPT submittal package.

1.5 QUALITY ASSURANCE

Manufacturer: PAC International, LLC, specializing in sound and vibration isolation products.

Install in accordance with manufacturer's published instructions.

1.6 DELIVERY, STORAGE, AND HANDLING

Deliver RSIC®-ADAPT clips fully assembled.

Store in a dry location protected from damage.

1.7 PROJECT CONDITIONS

A. Do not install gypsum board until building is enclosed and conditioned.
B. Coordinate with MEP trades to avoid rigid bridging of isolated surfaces.

1.8 WARRANTY

A. Provide manufacturer's standard one-year warranty against defects in materials and workmanship.

PART 2 – PRODUCTS

2.1 MANUFACTURER

A. Basis of Design: **PAC International, LLC – RSIC® systems.**

PAC International, LLC

2000 SE 4th Ave

Canby OR, 97013

www.pacinternationalllc.com

2.2 RESILIENT SOUND ISOLATION CLIPS

Product: RSIC®-ADAPT

Clip shall be capable of attaching to all listed substrates without requiring a change in clip frame or body.

Adjustable, pre-assembled ceiling isolation clip designed to provide acoustic isolation in floor ceiling assemblies.

Engineered for drywall furring channel, cold-rolled channel (CRC), drywall grid systems, and Unistrut-type framing.

Suitable for wood framing, steel framing, concrete structures, mass timber, and metal deck assemblies.

Can be used in new construction and renovation.

2.3 PERFORMANCE CHARACTERISTICS

Acoustical Design Load: Up to 160 lb per isolator.

Total Deflection: Less than 1/8 inch at design load.

Natural Frequency: Down to 12 Hz.

Maximum Spacing: 48 inches on center.

Use: Ceilings only. Not for wall applications.

2.4 MATERIALS

Proprietary elastomeric isolation element within steel frame.

Carrier channels shall meet SSMA standards.

Fasteners per manufacturer recommendations for wood, steel, or concrete substrates.

PART 3 – EXECUTION

3.1 EXAMINATION

Verify substrates are structurally sound prior to installation.

3.2 INSTALLATION

Install RSIC®-ADAPT in accordance with manufacturer's published installation instructions.

Maximum spacing: 48 inches on center unless otherwise noted.

Ensure gypsum board and framing do not contact structure directly.

3.3 FIELD QUALITY CONTROL

Verify proper clip spacing, fasteners, and channel installation.

Replace damaged components.

3.4 PROTECTION

Protect installed isolators until ceiling assembly is complete.

Design Considerations

- Always match clip and accessory usage to current UL-listed designs where fire-resistance is required.
- Coordinate clip layout early with MEP and low-voltage trades to avoid rigid contact or penetrations that bypass isolation.
- Maintain perimeter gaps and seal with acoustical sealant to maximize STC/IIC ratings.