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Product Guide Specification

SECTION 13085

SOUND ISOLATION RSIC-DC04 X2 SOUND ISOLATION RSIC-DC04 X2 HD

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Resilient Sound Isolation Clips (RSIC-DC04X2 or RSIC-DC04 X2 HD) installed with hanger wires for support of a suspended gypsum board ceiling for noise control or mechanical equipment.

1.2 RELATED SECTIONS

- A. Section 05400 - Cold-Formed Metal Framing.
- B. Section 06110 - Wood Framing.
- C. Section 07210 - Building Insulation.
- D. Section 07920 - Joint Sealants.
- E. Section 09250 - Gypsum Board.
- G. Section 09260 - Gypsum Board Assemblies.
- H. Section 09820 - Acoustical Insulation and Sealants.

1.3 REFERENCES

- A. AISI Specifications for Design of Cold-Formed Steel Structural Members.
- B. ASTM B 633 - Standard Specification for Electrodeposited Coatings of Zinc on Iron and Steel.
- C. ASTM C 645 - Standard Specification for Nonstructural Steel Framing Members.
- D. ASTM C 754 - Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products.
- E. ASTM C 840 - Standard Specification for Application and Finishing of Gypsum Board.

- F. ASTM C 1002 - Standard Specification for Steel Self-Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs.

1.4 DESIGN REQUIREMENTS

- A. Dead or Shear Load: Maximum acoustical design load of 72 pounds per each RSIC-DC04X2.
- B. Dead or Shear Load: Maximum acoustical design load of 144 pounds per each RSIC-DC04X2 HD

1.5 SUBMITTALS

- A. Comply with Section 01330 - Submittal Procedures.
- B. Product Data: Submit manufacturer's product data and installation instructions.
 - 1. Resilient sound isolation clips RSIC-DC04 X2.
 - 2. Resilient sound isolation clips RSIC-DC04 X2 HD.
- C. Samples: Submit manufacturer's samples.
 - 1. Resilient sound isolation clips RSIC-DC04 X2.
 - 2. Resilient sound isolation clips RSIC-DC04 X2 HD.
- D. Contractor to submit proposed layout to manufacturer and architect.
- E. Warranty: Submit manufacturer's standard warranty for RSIC-DC04X2 and RSIC-DC04 X2 HD.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage: Store materials in clean, dry area indoors in accordance with manufacturer's instructions.
- C. Handling: Protect materials during handling and installation to prevent damage.

PART 2 PRODUCTS

2.1 SOUND ISOLATION

- A. Sound Isolation Clips: RSIC-DC04X2, RSIC-DC04 X2 HD.
 - 1. Manufacturer: PAC International, LLC., Canby, OR - Las Vegas, NV. Toll Free (866) RSIC-100 (866) 774-2100. Phone (503) 649-7700. . Web Site www.pac-intl.com. Web Site www.pacinternatinoalllc.com E-Mail info@pac-intl.com.
 - 2. Steel and Rubber manufactured and assembled in the United States.
 - 3. Rubber Isolator:
 - a. Natural or man-made rubber type material
 - b. Molded to isolate ferrule from clip.
 - c. Minimum of 12 micro-vibration controlling pedestals at point of contact with framing member.

3. Clip: Galvanized, painted or aluminum-zinc coated steel, 18 gauge.
4. Ferrule: Zinc-electroplated steel.
5. Projection: 4-1/2 inches from supporting structure to end of vertical blade.

Please Note: The following materials are not furnished by PAC International.

B. Mechanical Fasteners:

1. Type: Self-drilling, self-tapping screws. Steel, ASTM C 1002. Galvanized coating, plated, or oil-phosphate coated, ASTM B 633, as needed for required corrosion resistance.
2. Resilient Sound Isolation Clip Connections:
 - a. To Wood Framing Members: Two (2) Screws 2-1/2 inches (63 mm) minimum length, #10 minimum shank, Type W (coarse thread), bugle- or hex-head screws of equal or greater size.
 - 1) Fasteners for RSIC-DC04 X2 to have a minimum allowable Pullout and Shear per fastener of 36 pounds each.
 - 1) Fasteners for RSIC-DC04 X2 HD to have a minimum allowable Pullout and Shear per fastener of 72 pounds each.
 - b. To steel Framing Members: Two (2) Screws 1-5/8 inches (42 mm) minimum length, #10 minimum shank, Type S (fine thread), bugle- or hex-head screws of equal or greater size.
 - 1) Fasteners for RSIC-DC04 X2 to have a minimum allowable Pullout and Shear per fastener of 36 pounds each.
 - 1) Fasteners for RSIC-DC04 X2 HD to have a minimum allowable Pullout and Shear per fastener of 72 pounds each.
 - c. To concrete or CMU: Two (2) Concrete anchors Screw, Wedge or drive spike 2" inches (51 mm) minimum length, #10 minimum shank), bugle- or hex-head screws of equal or greater size.
 - 1) Fasteners length determined by the minimum embed plus 1" for the RSIC-DC04 X2 internal Ferrule. And to have a minimum allowable Pullout and Shear per fastener of 36 pounds each for the RSIC-DC04 X2 and 72 lbs. ea. for the RSIC-DC04 X2 HD

D. Hanger wire: Minimum 12 gauge, annealed, galvanized steel.

E. Acoustical Sealant: Flexible, non-hardening. As specified in Section 07920.

F. Fire/Smoke Sealant: Flexible, non-hardening. Classified as an acoustical sealant. As specified in Section 07920.

G. Putty Pad Sealant: Control noise transmission and fire resistance at electrical boxes and other penetrations. As specified in Section 07920.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive materials. Notify Architect if areas are not acceptable. Do not begin installation until unacceptable conditions have been corrected.

3.2 INSTALLATION - GENERAL

- A. Install RSIC-DC04X2 or RSIC-DC04 X2 HD in accordance with manufacturer's instructions.
- B. Mechanically fasten RSIC-DC04X2 or RSIC-DC04 X2 HD to structure with screws or wedge anchor.
- C. Space RSIC-DC04 X2 or RSIC-DC04X2 HD at maximum of 48 inches (1,200 mm) by 48 inches (1,200 mm) on center for ceilings.
- D. Locate RSIC-DC04 X2 or RSIC-DC04 X2 HD maximum of 48 inches apart on each vertical stud when isolating framing.
- E. Do not exceed acoustical design load (pull and shear) of 72 pounds per RSIC-DC04 X2, and 144 Lbs for the RSIC-Dc04 X2 HD.
- F. Install RSIC-DC04X2 or RSIC-DC04X2 HD to the structural members prior to installation of the gypsum board.
- G. Ensure metal ferrule of resilient sound isolation clips is in firm contact with structural member.
- K. Acoustical Sealant:
 - 1. Seal potential air leaks with acoustical sealant to achieve best Field Sound Transmission Class (FSTC).
 - 2. Seal electrical outlets and penetrations with acoustical sealant.
 - 3. Apply fire-rated acoustical sealant at every locations where the RSIC-DC04X2 or RSIC-DC04X2 HD blade penetrates the gypsum board or where a fire-rated assembly is required.
- M. Putty Pad Sealant: Acoustically seal with putty pads, electrical boxes in walls and ceilings in which resilient sound isolation clips are used.

3.3 INSTALLATION - CEILINGS

- A. Install RSIC-DC04X2 or RSIC-DC04X2 HD under a gyp ceiling. Fasten the RSIC clip to the bottom of the framing members using two (2) #10 x 2-1/2" screws spaced at a maximum of 4'x4' OC prior to the installation of the RSIC-1 isolated gypsum board ceiling.
- B. After each layer of gypsum board is installed on the ceiling acoustical caulking shall be applied to all penetration including the protruding blade of the RSIC-DC04X2 or RSIC-DC04X2 HD
- C. Locate RSIC-DC04 X2 or RSIC-DC04 X2 HD maximum of 48 inches apart when mounting wire or framing for a dropped ceiling. Spacing may be adjusted to accommodate heavier loads.

END OF SECTION