



1. Product Name

- RSIC-DC04® Sound Isolation Clip Series
 - RSIC-DC04® Sound Isolation Clips (36 pounds)
 - RSIC-DC04® HD Sound Isolation Clips (72 pounds)
 - RSIC-DC04X2® Sound Isolation Clips (72 pounds)
 - RSIC-DC04X2® HD/DD Sound Isolation Clips (144 pounds)

2. Manufacturer

PAC International, LLC
 9130 SW Pioneer Court
 Suite B
 Wilsonville, OR 97070
 Phone: (866) 670-7329
 (866) 774-2100
 Fax: (866) 649-2710
 Email: info@pac-intl.com
 Web: www.pac-intl.com

3. Product Description

Basic Use

The RSIC-DC04 Sound Isolation Clip Series is a universal and versatile product line. The most common use is decoupling wall framing and ceiling systems. Used in new construction or retrofit, the RSIC-DC04 Series are used to acoustically decouple items for noise isolation.

A few examples of the possible uses for the RSIC-DC04 series of noise control clips:

- Dropped ceiling
- Decoupled brace
- Ceiling fan isolators
- Garage door rail isolation
- Speaker mount isolators
- Exhaust/vent fan isolators
- Projector mount isolators
- Electrical box fan isolators
- Garage door motor isolation
- Recessed lighting cover box isolators
- Resilient connector for isolating wall

RSIC-DC04 series clips are engineered to support either ¼ or ⅜ inch threaded rod or bolts, ¼ inch is shipped by default, if ⅜ inch is needed you must specify when ordering.

Materials and Composition

The 16 gauge RSIC-DC04 clips are composed of galvanized or aluminum-zinc coated steel and is manufactured in Las Vegas. The RSIC-DC04 has a single rubber isolator and the RSIC-DC04 X2 has double the isolators and two times the load capacity.



RSIC-DC04

Sizes and Weight-bearing Information

The RSIC-DC04, (36 pound), clip can support up to two layers of ⅝ inch gypsum board when spaced at 24 × 48 inches on center. For heavier systems increase the number of isolators or change the ISO type to support the additional weight of the system. The RSIC-DC04 clip fastens directly to the framing or structure.

- The RSIC-DC04 supports up to 36 pounds per isolator clip
- The RSIC-DC04 HD/DD supports up to 72 pounds per isolator clip
- The RSIC-DC04X2 supports up to 72 pounds per isolator clip
- The RSIC-DC04X2 HD/DD supports up to 144 pounds per isolator clip

Dimensions and Gauges

RSIC-DC04 and **RSIC-DC04 HD/DD** clips (W × H × D): 1⅝ × 4½ × 1¾ inches

RSIC-DC04X2 and **RSIC-DC04X2 HD/DD** clips (W × H × D): 1¾ × 4½ × 3½ inches

- RSIC-DC04 is 16 gauge
- RSIC-DC04 HD/DD is 16 gauge
- RSIC-DC04X2 is 16 gauge
- RSIC-DC04X2 HD/DD is 16 gauge

Approved Fasteners:

RSIC-DC04 to Wood: #8 × 2½ inch minimum size coarse thread screw. (Recommended #12 or #10 × 2½ inch hex head)

RSIC-DC04 to Steel: #8 × 1⅝ inch minimum size fine thread screw. (Recommended #12 or #10 × 1⅝ inch hex head)



RSIC-DC04



RSIC-DC04 HD



RSIC-DC04X2

RSIC-DC04 to Concrete: Minimum 120 pounds Ultimate, Shear and Pullout, or fastener with equal load capabilities

- $\frac{3}{16}$ × 2 inch Ramset Redi-Drive Anchor
- $\frac{3}{16}$ × 2 inch drive spike
- $\frac{3}{16}$ × 2½ inch Tapcon

RSIC-DC04 to Side of Wood: 2 each #6 1¼ inch minimum coarse thread screw

RSIC-DC04 to Steel: 2 each #8 × 1 inch minimum fine thread screw.

DO NOT fasten RSIC-DC04 to framing members with nails.

Use only approved fasteners.

Product Limitations

For internal use only with operating temperatures of 60–80 degrees F (15.5–26.7 degrees C).

4. Technical Data

Applicable Standards

American Iron and Steel Institute (AISI)

- AISI S100-12 North American Specification for the Design of Cold-Formed Steel Structural Members

ASTM International (ASTM)

- **ASTM B633** Standard Specification for Electrodeposited Coatings of Zinc on Iron and Steel
- **ASTM C645** Standard Specification for Nonstructural Steel Framing Members
- **ASTM C754** Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products

- **ASTM C840** Standard Specification for Application and Finishing of Gypsum Board
- **ASTM C1002** 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
- **ASTM D412** Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers – Tension
- **ASTM D573** Standard Test Method for Rubber-Deterioration in an Air Oven
- **ASTM D2000** Standard Classification System for Rubber Products in Automotive Applications
- **ASTM D2240** Standard Test Method for Rubber Property - Durometer Hardness
- **ASTM E72** Standard Test Methods of Conducting Strength Tests of Panels for Building Construction
- **ASTM E90** Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- **ASTM E108** Standard Test Methods for Fire Tests of Roof Coverings

Environmental Considerations

The RSIC-DC04 clips may contribute to LEEDS points.

The rubber RSIC fittings contain more than 50 percent recycled rubber which can be recycled.

The steel recycled content is less than Dynamometer Pull-Meter Method.

5. Installation

General Information

- Resilient Sound Isolation Clip ceiling system shall not carry heavy loads such as cabinets or bookshelves
- Seal all potential air leaks with non-hardening acoustical caulking to achieve best noise control results; use fire rated sealant where required
- When attaching the RSIC clips to a steel stud the minimum allowable thickness of the steel stud is 20 gauge (0.030).
- Follow manufacturer's specific installation instructions.
 1. Resilient Sound Isolation Clips shall be 48 × 48 inches on center maximum.
 2. Fasten the Resilient Sound Isolation Clips to the structure members with approved fasteners.
 3. Ensure the internal metal ferrule is tight to the framing member.
 4. Locate the first and last row of clips within eight inches from the wall.
 5. (Optional) When drywall grid is used, the first row of clips may be spaced at 48 inches from the wall provided wall angle is used to support the main runners and T's at the wall ceiling inter-section. The main runners and T's must be mechanically fastened to the wall angle with a screw or rivet.
 6. Minimum 12 gauge annealed hanger wire tied through the existing ¼-inch hole in the vertical leg of the clip.
 7. When using tie wire attached to the clip to hang a drywall grid ceiling follow the installation instruction provided by the manufacturer of the grid ceiling system.

6. Availability and Cost

Please contact PAC International, LLC. for availability and pricing information.

7. Warranty

RSIC-DC04 Sound Isolation Series clips have no warranty.

8. Maintenance

No maintenance is necessary.

9. Technical Services

PAC International Inc. offers online product pages, installation guides, and specification sheets. Technical information can be found on the website, www.pac-intl.com or by calling 866-774-2100, ext. 101 or 801. Fire ratings, sound test assemblies, CAD drawings, assembly drawings and clip specifications are also on the website.

10. Filing Systems

- Construct Connect
- Additional product information is available from the manufacturer upon request ↗