RSIC-DC04 HD

RSIC-DC04 HD

The **RSIC®-DC04 HD** series is a universal and versatile product line. The most common use is decoupling wall framing and ceiling systems.. The RSIC-DC04 HD can be used in new construction or retrofit. The RSIC-DC04 HD should be used when items need to be acoustically decoupled for noise and vibration isolation.

A few examples of the possible uses for the RSIC-DC04 HD series of noise control clips**:** Dropped ceiling, decoupled brace or resilient connector for isola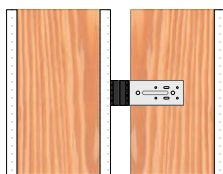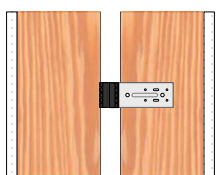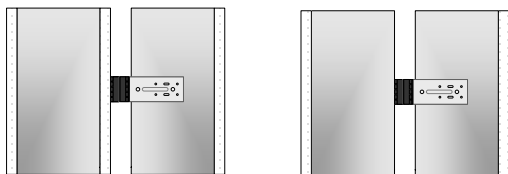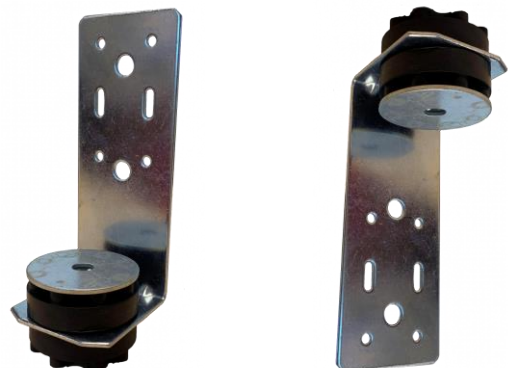ting walls, speaker mount isolators, exhaust/vent fan isolators, recessed lighting cover box isolators, projector mount isolators, electrical box, ceiling fan isolators, garage door motor isolation, and garage door rail isolation just to name a few.
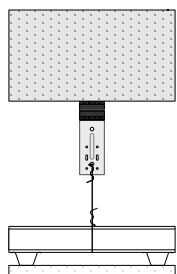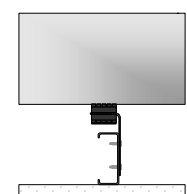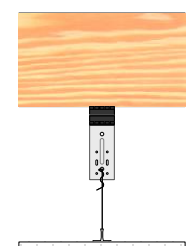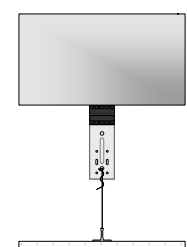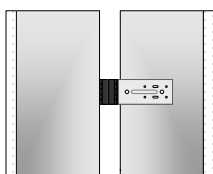
Wood	Concrete
Steel	Condo
Metal deck	Commercial
Apartment	Recording Studio
Retail	Home Theater
Conference Rooms	Commercial theater

RSIC-DC04HD specifications:	
Acoustical design load:	72 Lbs
Total deflection	3 mm
Adjustable	4" screw flange
Cavity min	1/2"
Cavity Max	4-1/2"
Use on Ceilings	Yes
Use on walls	Yes
New Construction	Yes
Retro Fit	Yes

RSIC® is the Low Cost, High Performance, Noise control Solution

1 3/4"

3/4"

4 7/16"

3 3/4"

2 5/16"
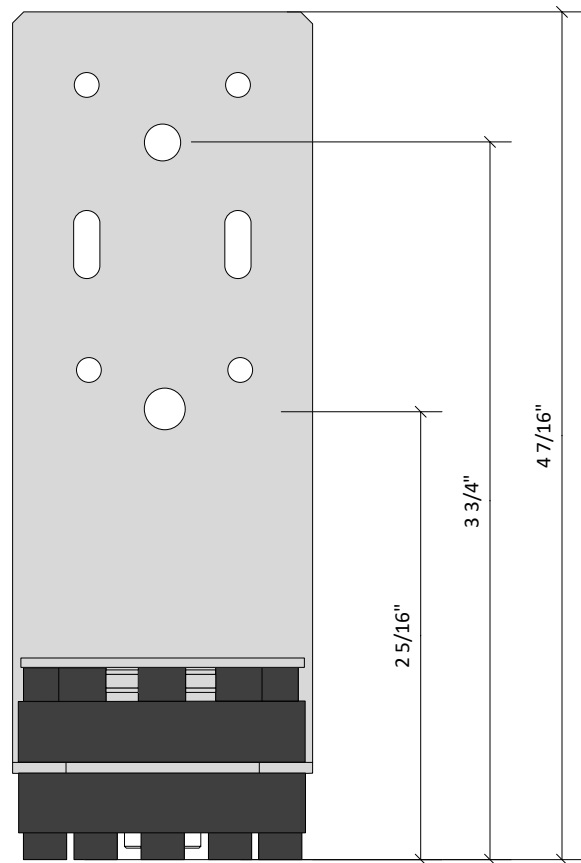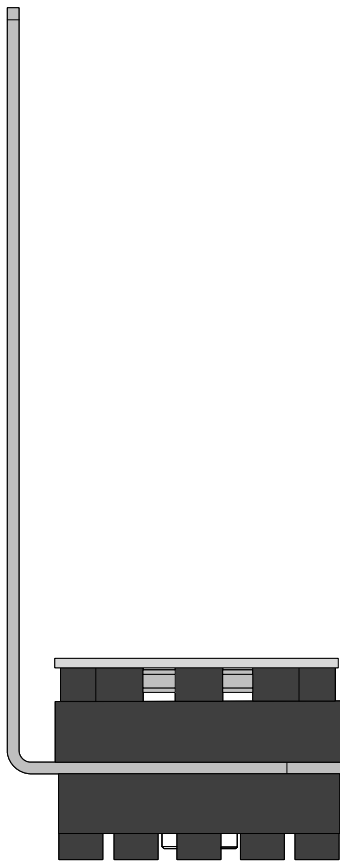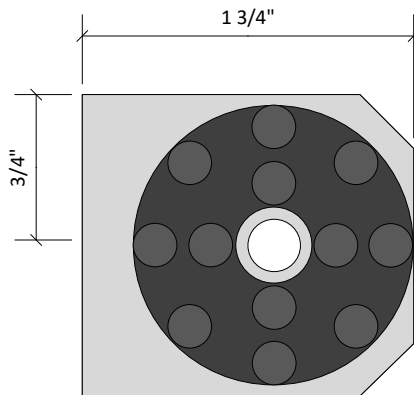
RSIC-DC04 HD	PAC International	World Leader in Noise Control Solutions
7/23/2023		
Scale 1:1		

RSIC-DC04 HD SOUND ISOLATION CLIP

RSIC-DC04 HD

WOOD – STEEL - CONCRETE

RSIC-DC04 HD INSTALLATION GUIDE
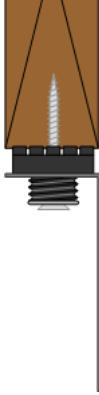
RSIC-DC04 Isolator Spacing and Load:

- **Maximum Acoustical Design Load: 72** lbs Per Isolator.

- **Maximum Spacing Allowed:** 48" x 48" oc.

- **Deflection:** 0.236"(6mm) @ 72 lbs

Approved Fasteners:
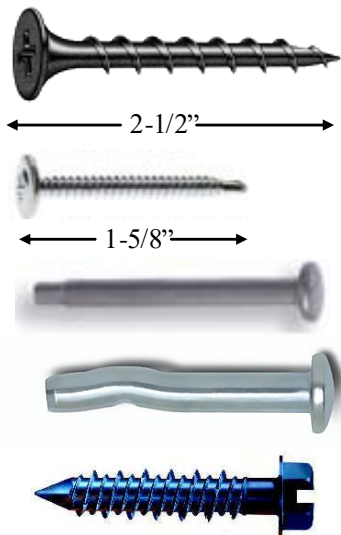
- **RSIC-DC04 to Wood:** #8 x 2-½ inch minimum size coarse thread screw. (Recommended #12 or #10 x 2-½" hex head)

- **RSIC-DC04 to Steel**: #8 x 1-5/8" minimum size fine thread screw. Recommended #12 or #10 x 1-5/8" hex head)

- **RSIC-DC04 to Concrete:** Minimum 240 lbs Ultimate, Sheer and Pullout, or fastener with equal load capabilities
- 3/16" x 2" Ramset Redi-Drive Anchor
- 3/16" x 2" Drive Spike
- 3/16" x 2-½" Tapcoon

- DO NOT fasten Resilient Sound Isolation Clips (RSIC-DC04) to framing members with nails. Use only with approved fasteners.

RSIC-DC04 Dimensions:

- RSIC-DC04 clip 4-½" tall
- RSIC-DC04 clip 1-5/8" wide
- RSIC-DC04 clip 1-¾" Deep

2-1/2"

1-5/8"

1-5/8"   1-3/4"

4-1/2"

RSIC-DC04
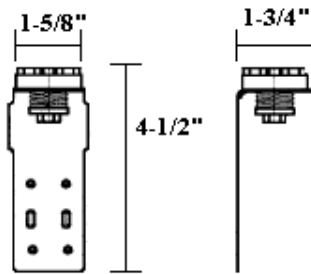
RSIC-DC04 Isolator Spacing and Load:

- **Maximum Acoustical Design Load:** 72 lbs Per Isolator.

- **Maximum Spacing Allowed:** 48" x 48" oc.

- **Deflection:** 0.236"(6mm) @ 72 lbs

Approved Fasteners:

1-1/4"

1"

- **RSIC-DC04 to Side of Wood:** 2 ea #6 x 1-¼" minimum coarse thread screw

- **RSIC-DC04 to Steel:** 2 ea #8 x 1" minimum fine thread screw.

- DO NOT fasten Resilient Sound Isolation Clips (RSIC-DC04) to framing members with nails. Use only approved fasteners
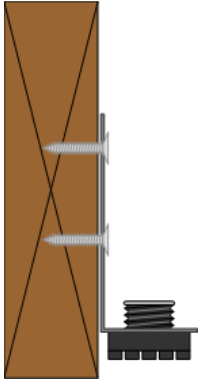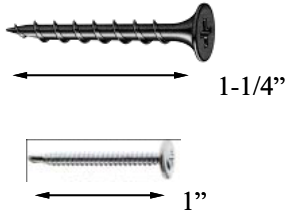
1-5/8"   1-3/4"

4-1/2"

RSIC-DC04

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- RSIC-DC04 clip 1-5/8" wide
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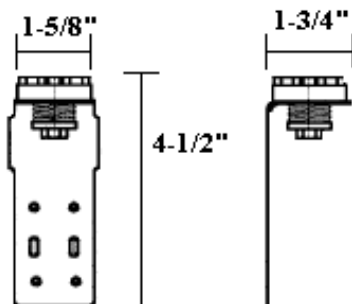
RSIC-DC04 HD INSTALLATION GUIDE
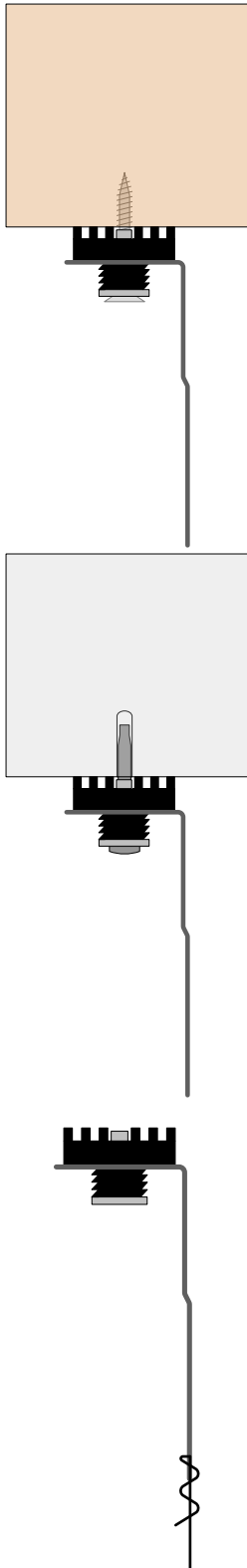
Ceilings: Wood or Steel Framing.

- Resilient Sound Isolation Clip (RSIC-DC04) shall be Maximum 48 inches by 48 inches on center maximum.
- Fasten the Resilient Sound Isolation Clip (RSIC-DC04) to the structure members with approved fasteners.
- Ensure the internal metal ferrell is tight to the framing member.
- Locate the first and last row of RSIC-DC04 clips within 8 inches from the wall.
- Min. 12 Ga annealed hanger wire tied through the existing 1/4" hole in the vertical leg of the RSIC-DC04 clip.
- When using tie wire attached to the RSIC-DC04 clip to hang a drywall grid ceiling follow the installation instruction provided by the manufacturer of the grid ceiling system.
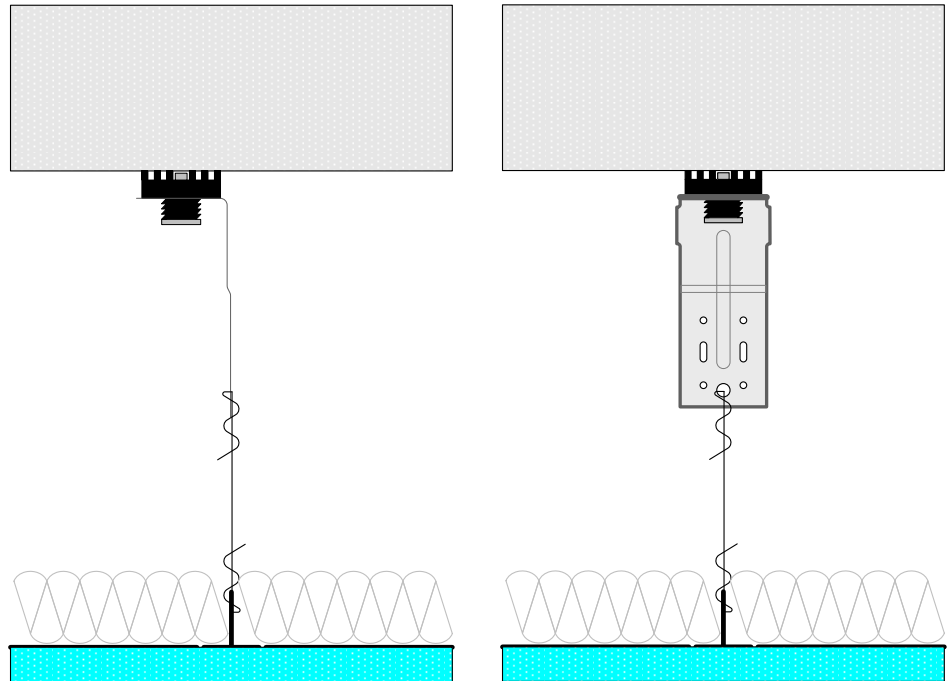
General Information:

- Resilient Sound Isolation Clip (RSIC-DC04) 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 Ga. (0.030).

RSIC-DC04 HD INSTALLATION GUIDE

Wood or Steel Framing

Ceilings: Wood or Steel Framing.

- Resilient Sound Isolation Clip (RSIC-DC04) shall be spaced to support 36 lbs maximum.
- Fasten the Resilient Sound Isolation Clip (RSIC-DC04) to the structure members with 2 (min) approved fasteners.
- Ensure the clip is tight to the framing member.
- Locate the RSIC-DC04 clips within 8 inches from the wall.
- 1/4" threded rod secured through the internal ferrule of the RSIC-DC04 clip with nuts and a fender washer to support the large side of the RSIC-DC04 clip rubber section.
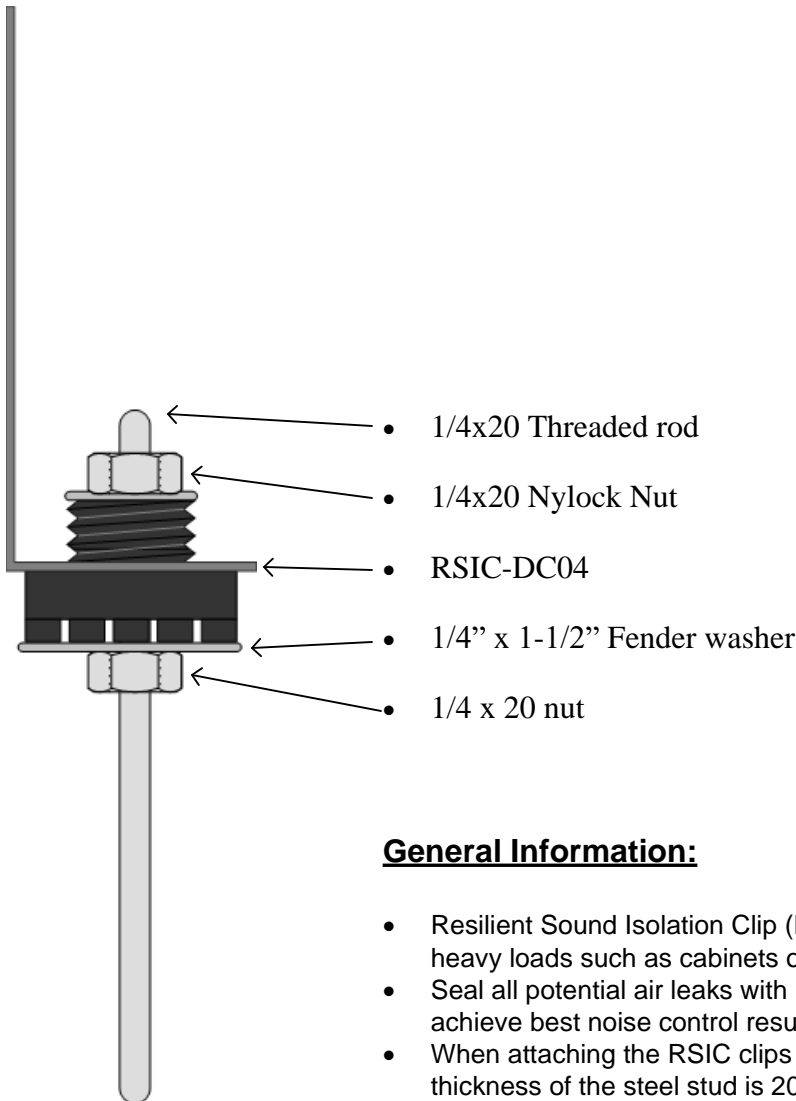
- 1/4x20 Threaded rod

- 1/4x20 Nylock Nut

- RSIC-DC04

- 1/4" x 1-1/2" Fender washer

- 1/4 x 20 nut

General Information:
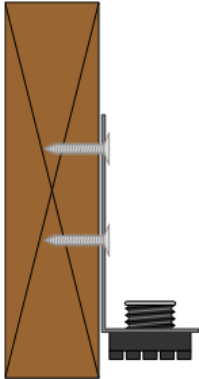
- Resilient Sound Isolation Clip (RSIC-DC04) ceiling system shall not carry heavy loads such as cabinets or bookshelves
- Seal all potential air leaks with non-hardening acoustical caulking to achieve best noise control results. Use fire rated sealant where required.
- When attaching the RSIC clips to a steel stud the minimum allowable thickness of the steel stud is 20 Ga. (0.030).

**APPLICATION RECOMMENDATIONS FOR
CEILING, WOOD, STEEL, OR CONCRETE.**

**INSTALLING RESILIENT SOUND ISOLATION CLIPS (RSIC-DC04)
FOR 2 LAYERS 5/8" GYPSUM BOARD TYPE C**

RSIC-DC04 CLIPS AT 24" x 48" OC.
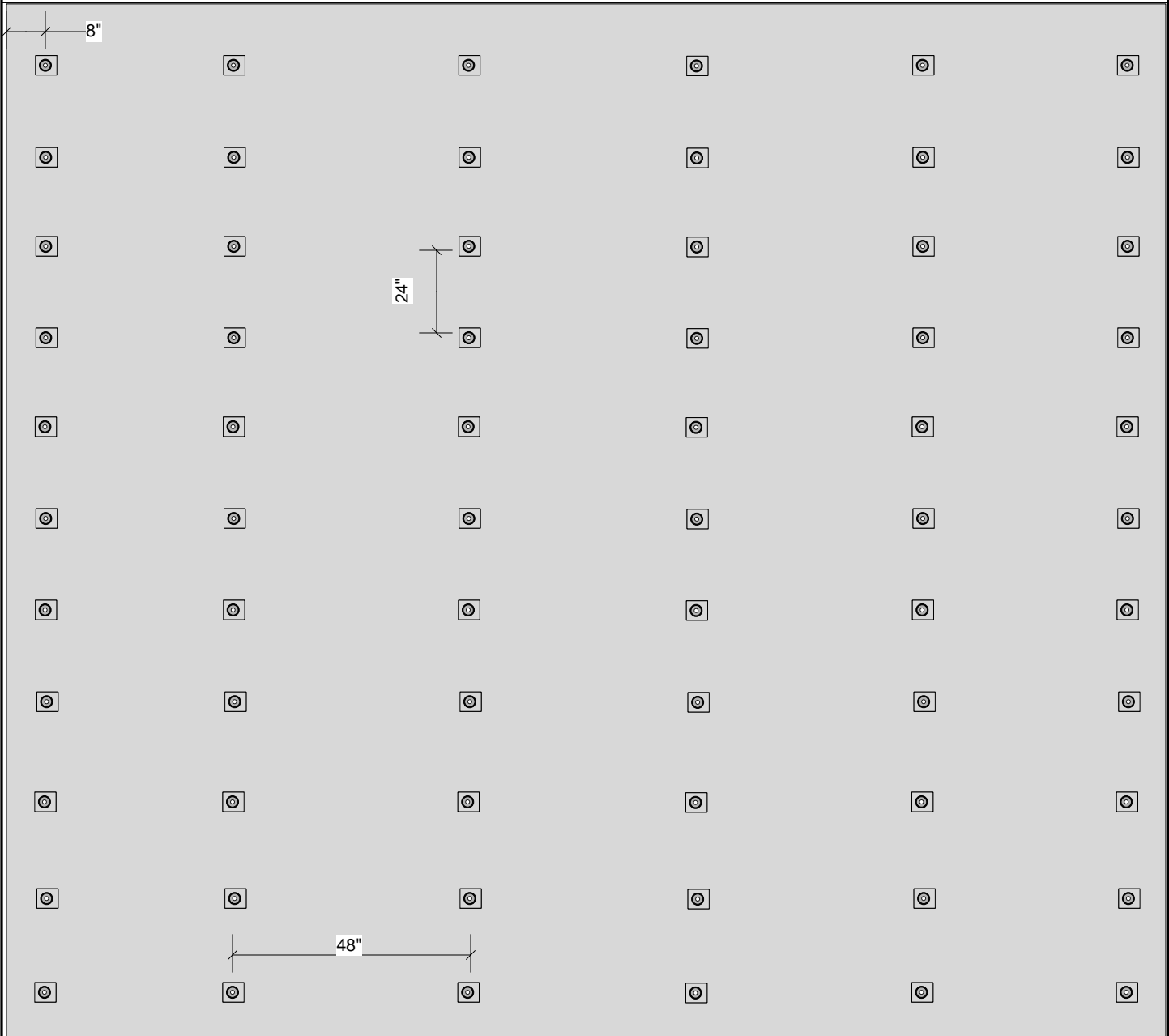
8"

24"

48"

**APPLICATION RECOMMENDATIONS FOR
CEILING, WOOD, STEEL, OR CONCRETE.**

**INSTALLING RESILIENT SOUND ISOLATION CLIPS (RSIC-DC04)
FOR 1 LAYER 5/8" GYPSUM BOARD TYPE C**

RSIC-DC04 CLIPS AT 48" x 48" OC.
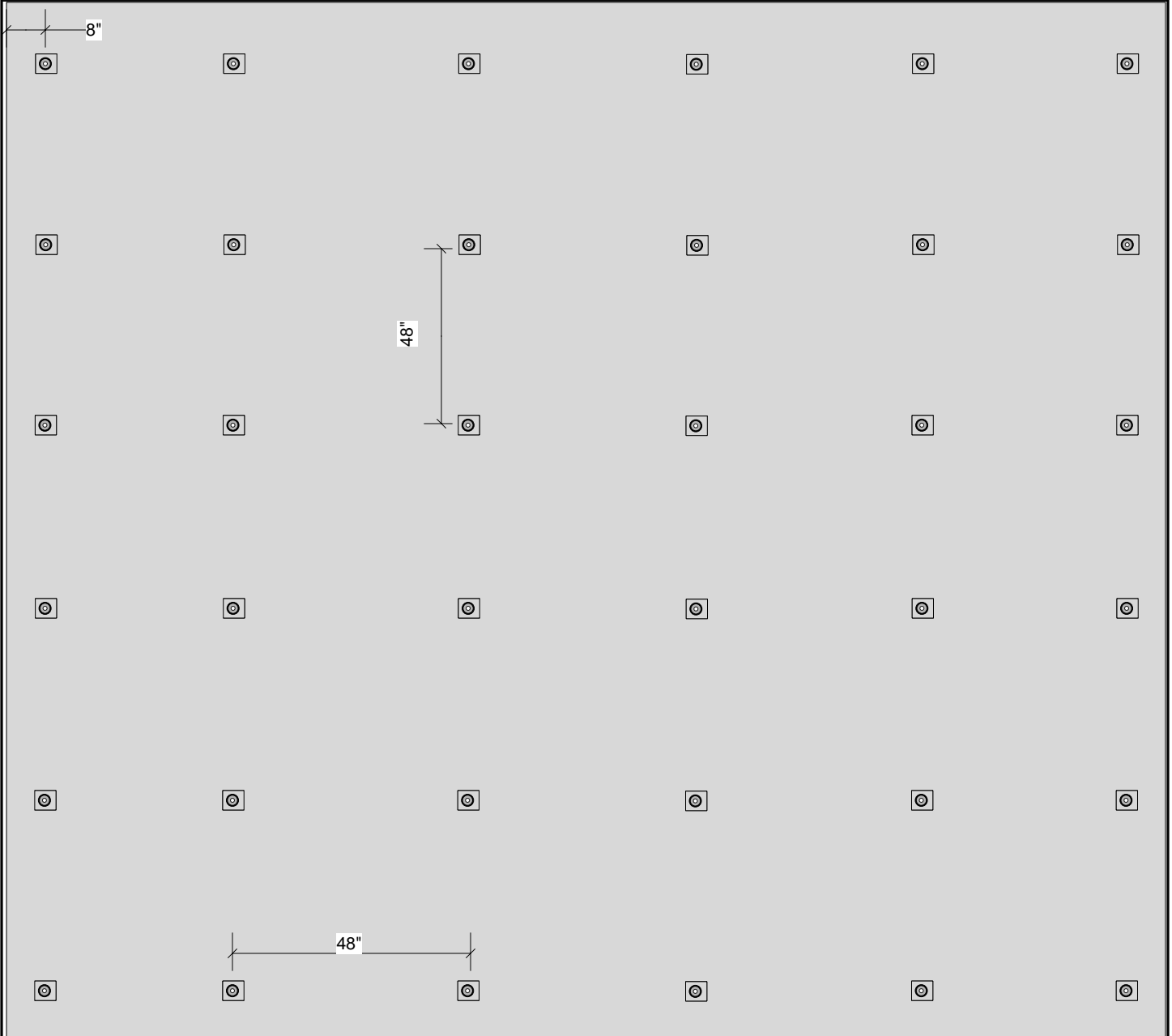
8"

48"

48"

**World Leader
in Noise
Control
Solutions**

1. Product Name
●RSIC-DC04 HD Resilient Sound Clip

2. Manufacturer

PAC International, LLC
2000 SE 4th Ave
Suite A
Canby, OR 97013
Phone: (866) 774-2100
Fax: (866) 649-2710
Email: **info@pac-intl.com**
Web: **www.pac-intl.com**

3. Product Description
RSIC-DC04 HD

The RSIC-DC04 HD is designed for use with any concrete, steel or wood frame where noise control is needed. The RSIC-DC04 HD assembly decouples and isolates the framing, gypsum board or sheet goods from the structure increasing the acoustical performance of the system.

The RSIC-DC04 HD stops the noise and vibrations that typically would be allowed to transfer through the structure.

Materials and Composition

The 16 gauge RSIC-DC04 HD clips are composed of galvanized or protective coating.

The RSIC rubber isolators are made of proprietary rubber and/or manufactured rubber compounds.

The RSIC-DC04 HD assembly is distributed from Canby, OR.
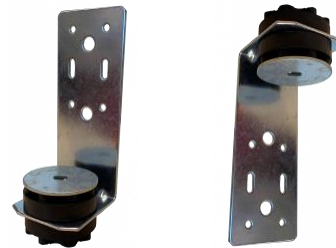
RSIC-DC04 HD

Sizes and Weight-bearing Information:

The RSIC-DC04 HD has an acoustical design load rating of 72 pounds per isolator. The RSIC-DC04 HD clip can support up to two layers of 5/8 inch gypsum board when spaced at 48 × 48 inches on center.

For heavier systems increase the number of isolators to support the additional weight of the system. The RSIC-DC04 HD clip fastens to the structure with a wood screw, steel screw, concrete screw or other fasteners that fit through the center ferrule. The RSIC-DC04 HD allows for a wide variety of systems and isolation with no restriction to cavity depth or framing designs.

Product Limitations:

For interior use only with operating temperatures of 40–100 degrees F (4.4–37.8 degrees C).

4. Technical Data
Applicable Standards

ASTM International (ASTM)

ASTM E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements

ASTM E413 Classification for Rating Sound Insulation

5. Installation

General installation: follow manufacturer's specific installation instructions.

- Install resilient sound isolation clips and supporting added items in accordance with manufacturer's instructions
- Mechanically fasten RSIC-DC04 HD to structure with screws typically. Follow local guidelines for the attachment guide.
- Space resilient sound isolation clips at maximum of 48 × 48 inches (1200 × 1200 mm) on center for ceilings
- Do not exceed design load (pull and shear) of 72 pounds per isolation clip
- Attach framing or gypsum board support system to RSIC-DC04 HD. A frame or wire hung system using hanger wire, or a direct attached wood or steel stud framing.

Flanking Noise:

- Review installation details to prevent structure-borne flanking noise
- Do not allow isolated framing or gypsum board to contact foreign materials such as other ceilings or wall framing members.
- Install gypsum board in perpendicular to the supported framing member with a 1⁄4 inch (6 mm) gap around the perimeter of the ceiling for acoustical sealant application.
- Install gypsum board in accordance with ASTM C840 as specified in Section 09250

Acoustical Sealant:

- Seal potential air leaks with acoustical sealant to achieve best Field Sound Transmission Class (FSTC)

- Seal electrical outlets and penetrations with acoustical sealant
- Apply fire-rated acoustical sealant at locations where fire- rated assembly is required
- Putty Pad Sealant: acoustically seal with putty pads, electrical boxes in ceilings in which resilient sound isolation clips are used

6. Availability and Cost

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

7. Warranty

RSIC-DC04 HD clips have no acoustical performance warranty.

8. Maintenance

No maintenance is necessary.

9. Technical Services

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

10. Filing Systems

Additional product information is available from the manufacturer upon request

LEED Analysis
RSIC-DC04 HD

Recycled Content

PAC International's RSIC-DC04 HD does not contain signification recycled content.

Fabrication Location

The RSIC-DC04 HD is distributed from Canby, OR 97013

Material Source

The extraction points for the materials in these products cannot be verified. Assume they are outside the 500 mile radius.

RSIC ® Safety Data Sheet

Article Statement
(PAC International, LLC Wall and Ceiling Isolation Products)

This document is provided for clarification of the Safety Data Sheets that you have requested for our product(s). OSHA Hazard Communication Standard requires a SDS for hazardous chemicals; however, the standard exempts all articles from the requirement. The explanation of an article is described per OSHA definition below.

Pursuant to 29 CRF 1910.1200 (b) (6) (v) and (c), the product described herein is an "article" or is otherwise excluded from OSHA regulations requiring that a Material Safety Data Sheet be prepared for it.

An article defined: manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacturing; (ii) which has an end use function (s) dependent in whole or in part upon its shape or design during end use; and (iii) which does not release, or other wise result in exposure to, a hazardous chemical under normal conditions of use.

For technical information and additional resources covering these products please refer to PAC International published literature, e.g., data sheets, product drawings, and installation guidelines at www.PacInternationalLLC.com

As of the date of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state laws. However, no warranty or representation of law or fact, with respect to such information, is intended or given.

World Leader in Noise Control Solutions

RSIC Product Warranty Disclaimer

WARRANTY DISCLAIMER AND LIABILITY LIMITATION LANGUAGE

WARRANTY AND DISCLAIMER AND LIABILITY LIMITATION LANGUAGE ONE YEAR WARRANTY Seller warrants to the original purchaser that its products are free from defects in material or workmanship for one year from the date of purchase from seller. Any allegedly defective product that is portable must be returned to seller prepaid. If upon examination it appears to seller's satisfaction that the product is defective, seller shall repair, replace, or return the purchase price of the product at seller's option. EXCEPT FOR THE FOREGOING, THERE IS NO OTHER WARRANTY, REPRESENTATION OR CONDITION OF ANY KIND; AND ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS EXCLUDED AND DISCLAIMED. Some states do not allow limitations on implied warranties, so the above limitation may not apply to you.

LIABILITY LIMITED TO RETURN OF PURCHASE PRICE

IT IS AGREED THAT SELLER'S LIABILITY AND PURCHASER'S SOLE REMEDY, WHETHER IN CONTRACT, UNDER ANY WARRANTY, IN TORT (INCLUDING NEGLIGENCE), IN STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE RETURN OF THE AMOUNT OF THE PURCHASE PRICE PAID BY PURCHASER, AND UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, PERSONAL INJURY, PROPERTY DAMAGE, DAMAGE TO OR LOSS OF EQUIPMENT, LOST PROFITS OR REVENUE, COSTS OF RENTING REPLACEMENTS AND OTHER ADDITIONAL EXPENSES, EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE PRICE STATED FOR THE EQUIPMENT IS A CONSIDERATION IN LIMITING SELLER'S LIABILITY AND PURCHASER'S REMEDY. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

SELLER NOT LIABLE FOR PURCHASER'S NEGLIGENCE

SELLER WILL NOT BE LIABLE FOR ANY DAMAGES, LOSSES OR EXPENSES AS A RESULT OF PURCHASER'S NEGLIGENCE, WHETHER DEEMED ACTIVE OR PASSIVE AND WHETHER OR NOT ANY SUCH NEGLIGENCE IS THE SOLE CAUSE OF ANY SUCH DAMAGE, LOSS OR EXPENSE.

MODEL FOR DEMONSTRATION PURPOSES ONLY

THE MODEL OR SAMPLE SHOWN BY SELLER TO BUYER IS USED FOR DEMONSTRATION PURPOSES ONLY. THERE IS NO WARRANTY THAT THE GOODS AS DELIVERED SHALL CONFORM TO THE MODEL OR SAMPLE, AND CONFORMITY OF THE GOODS TO THE MODEL OR SAMPLE IS NOT PART OF THE BASIS OF THE BARGAIN BETWEEN SELLER AND BUYER.

NO WARRANTY OR COMPLIANCE WITH SAFETY CODE OR REGULATION

SELLER DOES NOT WARRANT THAT ANY OF THE GOODS SOLD WILL MEET OR COMPLY WITH THE REQUIREMENTS OF ANY SAFETY CODE, BUILDING OR DWELLING CODE, OR REGULATION OF ANY STATE, MUNICIPALITY OR OTHER JURISDICTION.

NEVADA LAW APPLIES

SELLER AND BUYER AGREE THAT ALL ASPECTS OF THIS TRANSACTION INCLUDING THE APPLICABLE STATUTE OF LIMITATIONS SHALL BE GOVERNED BY THE INTERNAL LAW OF THE STATE OR NEVADA, AND NOT THE LAWS OF CONFLICTS.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state