



RSIC-1®



RSIC-1 BACKER®

1. Product Name

- RSIC-1 Resilient Sound Clip System®
 - RSIC-1® Resilient Sound Isolation Clips
 - RSIC-1 Backer®

2. Manufacturer

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3. Product Description

RSIC-1

The RSIC-1 is designed for use with any wood-framed, steel-framed, CMU, or concrete wall and ceiling system where noise control is needed. The RSIC-1 assembly decouples and isolates the gypsum board or sheet goods from the structure increasing the acoustical performance of the system.

The RSIC-1 stops the noise and vibrations that typically would be allowed to transfer through the structure. The RSIC-1 systems have several UL fire resistive design assemblies ranging from one hour to four hours.

The UL assemblies can be viewed on the PAC International, LLC site (www.pac-intl.com) and on UL.com. (File #: R16638)

Associated Product

RSIC-1 Backer

The RSIC-1 Backer series is a heavy-duty mount used together with the RSIC-1 clips, creating the only complete noise isolation system that can support heavy items. The RSIC-1 Backer can be used in new construction or retrofit projects. The RSIC-1 Backer 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-1 Backer series of noise control clips:

- Cabinet support
- Chalk boards
- Projector screens
- Handicap grab bars
- Soffit Support
- Rack mounts
- Lockers
- TV wall mount support
- Handrails
- Wall Support
- Furniture mounts
- Medical apparatus mount

Materials and Composition

The 18 gauge RSIC-1 clips and 16 gauge RSIC-1 Backer are composed of galvanized or aluminum-zinc coated steel.

The RSIC rubber isolators are made of natural rubber and/or manufactured rubber compound.

Sizes and Weight-bearing Information

With an acoustical design load rating of 36 pounds per isolator, the RSIC-1 clip can support up to two layers of 5/8 inch gypsum board when spaced max. 24 x 48 inches on center. For heavier systems increase the number of isolators and channel to support the additional weight of the system. The RSIC-1 clip fastens directly to the framing or structure creating a 1-5/8 inch cavity between the face of the framing and the back of the gypsum board.

The RSIC-1 Backer standard has an acoustical design load of 108 pounds per isolator. The heavy duty RSIC-1 Backer has an acoustical design load of 216 pounds per isolator.

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
- #### Underwriters Laboratories (UL)
- **UL Fire Resistance Directory**; Table 1, www.ul.com or visit [here](#).

Underwriters Laboratories of Canada (ULC)

- **UL Fire Resistance Directory**. www.ul.com



Environmental Considerations

The RSIC clip has been tested and passed the CDPH Low VOC standard test for classrooms and private offices.

The RSIC-1 and RSIC-1 Backer may contribute to LEEDS points.

The rubber RSIC fittings can be recycled.

The steel recycled content is less than 10 percent.

5. Installation

General installation: follow the manufacturer's specific installation instructions.

- Install resilient sound isolation clips and drywall furring channels in accordance with the manufacturer's instructions
- Mechanically fasten resilient sound isolation clips to structure with screws, bolts or expansion anchors, dependent upon structure
- Fire-Resistive Design Assemblies:
 - Install as specified in *UL Fire Resistance Directory*, where required
 - Do not arbitrarily add resilient sound isolation clips to fire-rated assemblies
- Space resilient sound isolation clips at a maximum of 24 × 48 inches (600 × 1200 mm) on center for walls and ceilings
- Ensure metal ferrule of resilient sound isolation clips is in firm contact with structural member
- Install resilient sound isolation clips on one side of wall assembly, unless otherwise indicated on the drawings
- Do not exceed the design load (pull and shear) of 36 pounds per isolation clip
- Stagger isolation clip installation, so dead load is supported by all support members
- Splicing Drywall Furring Channels:
 - Splice drywall furring channels with a minimum of six inch (150 mm) laps
 - Secure laps with two framing screws or 18 gauge tie wire double wrapped
 - Locate splices between resilient sound isolation clips • Do not locate splices on resilient sound isolation clips
- Flanking Noise Reduction:
 - Review installation details to prevent structure-borne flanking noise
 - Do not allow drywall furring channels or gypsum board to contact foreign materials, including floors, ceilings or wall framing members

- Putty Pad Sealant: acoustically seal with putty pads, electrical boxes in walls and ceilings in which resilient sound isolation clips are used

- Gypsum Board:

- Install gypsum board in vertical or horizontal position with a 1/4 inch (6 mm) gap around perimeter 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

6. Availability and Cost

Please contact your local drywall distributor or PAC International, LLC. for availability and pricing information.

7. Warranty

RSIC-1 clips and RSIC-1 Backer are warranted to be free of manufacturer defects. There is no warranty of performance.

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.pacinternatioalllc.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