

1. Product Name

- RSIC-U HD Resilient Sound Isolation System
 - RSIC-U HD® Resilient Sound Isolator.

2. Manufacturer

PAC International, LLC
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3. Product Description

RSIC-U HD

The RSIC-U HD® is designed for use with various wall designs. The RSIC-U HD® decouples the wall framing from the floor and ceiling structure. The RSIC-U® system eliminates flanking paths normally caused by a wall directly connected to the floor or ceiling. When combined with the RSIC-U HD wall system the highest possible noise control can be achieved by preventing noise from passing through wall framing into the adjoining structure. The RSIC-U HD® works directly with the RSIC-1 to achieve total decouple of walls from the structure above.

The RSIC-U HD stops the noise and vibrations that typically would be allowed to transfer through the floor above into the wall structure. The RSIC-U HD 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)



RSIC-U HD

Materials and Composition

The 18-gauge RSIC-U HD clips are composed of galvanized or aluminum-zinc coated steel and is manufactured in Canby, OR.

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

Sizes and Weight bearing Information:

The RSIC-U HD has an acoustical design load rating of 72 pounds per isolator. The RSIC-U HD clip can support framed walls with up two layers of 5/8 inch gypsum board when spaced at 16 inches on center. For heavier systems increase the number of isolators to support the additional weight of the system. The RSIC-U HD clip fastens directly to the framing and structure creating a 1/2-inch cavity between the face of the structure and the framing.

Product Limitations:

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

- Space isolation clip installation, so dead load is supported evenly by all isolators.
- Wall to be supported by the base of wall.

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 R16638

www.ul.com.

The RSIC-U HD may contribute to LEEDS points, see Leed information on pac-intl.com

5. Installation

General installation: follow manufacturer's specific installation instructions.

- Install resilient sound isolation clips in accordance with 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 maximum of 16 inches on center for wall and ceiling connections.
- Do not exceed design load (pull and shear) of 72 pounds per isolation clip

Flanking Noise:

- Review installation details to prevent structure-borne flanking noise
- Ensure metal ferrule of resilient sound isolation clips is in firm contact with structural member.
- Install frame isolation system and frame interior wall. Do not allow framed wall to contact floor or ceiling directly.
- Install perimeter tape where gypsum board meets the floor, walls, and ceiling.
- Install gypsum board in accordance with ASTM C840 as specified in Section 09250
- Acoustically caulk the gypsum board over the perimeter tape to ensure an airtight seal between the gypsum board and adjacent ceilings, walls and floors

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 walls and ceilings in which resilient sound isolation clips are used



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6. Availability and Cost

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

7. Warranty

See Warranty Disclaimer in Submittal documents.

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

Additional product information is available from the manufacturer upon request