



## 1. Product Name

- RSIC-U HD® HD Resilient Sound Clip

## 2. Manufacturer

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## 3. Product Description

### Basic Use

The RSIC-U HD clips are designed for use with various wall designs, by decoupling the wall framing from the floor and ceiling structure. The RSIC-U HD system eliminates flanking paths normally caused by a wall directly connected the floor or ceiling. When combined with the RSIC-1 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 a total decoupling of walls from the structure. For use with wood, steel, concrete and CMU constructions.

New construction and retrofit applications include:

- Retail
- Home theater
- Hotels
- Assisted living
- Motels
- Conference rooms
- Condos
- Commercial theater
- Apartments
- Single family homes
- Time share/fractional ownership

The UL assemblies can be viewed on the PAC International, LLC site in Table 1, [here](#) and on [UL.com](http://UL.com). (File #: R16638)

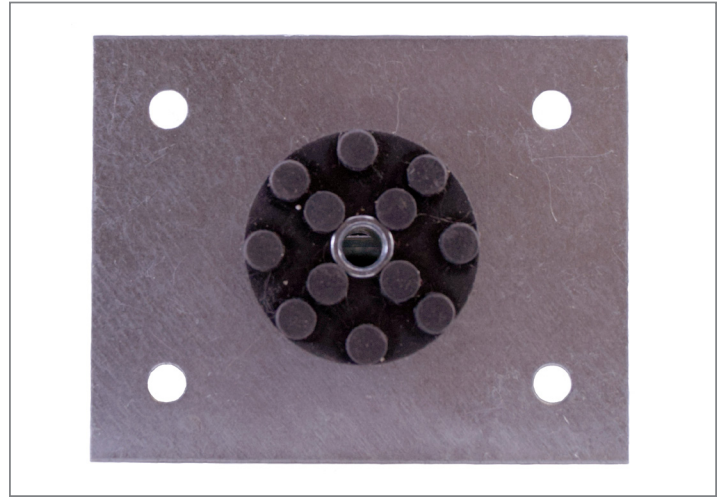
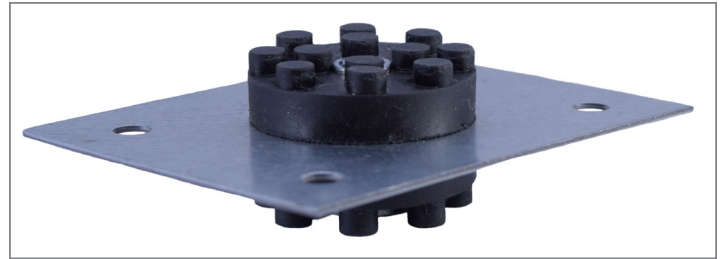
### Materials and Composition

The RSIC-U HD clips are composed of 16 gauge galvanized or aluminum-zinc coated steel and is manufactured in Las Vegas.

The RSIC rubber isolators are made of rubber compound.

### Sizes and Weight-bearing Information

With an acoustical design load rating of 72 pounds per isolator.



### SDS (formerly MSDS)

SDS sheet available [here](#).

### 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** 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

**Table 1—RSIC-U HD UL Design Number Listings**

HW-D-0034	HW-D-0043	HW-D-0044	HW-D-0079	HW-D-0103
* Consult PAC International, Inc. for complete details; UL File number: R16638				

- **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

#### Underwriters Laboratories (UL)

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

#### Underwriters Laboratories of Canada (ULC)

- UL Fire Resistance Directory. [www.ul.com](http://www.ul.com)

#### Environmental Considerations

The RSIC-U HD may contribute to LEEDS points.

The rubber RSIC fittings can be recycled.

The steel recycled content is less than 10 percent as required for fire life and safety regulations.

## 5. Installation

General installation: follow manufacturer's specific installation instructions,

### Steel Frame Installation (Ceiling)

1. Drill 1 inch (minimum) hole in center of steel track located next to each stud.
2. Fasten the RSIC-U HD to the steel track centering the rubber isolator in the hole drilled earlier
3. Fasten RSIC-U HD to the track with  $\frac{7}{16}$  or  $\frac{1}{2}$  inch framing screws.
4. Place the RSIC-U HD Donut and washer over the small section of the RSIC-Rubber.
5. Fasten the RSIC-U HD to the ceiling using appropriate fasteners for your application.
6. Steel Structure use min #8  $\times$   $1\frac{5}{8}$  inch fine thread fastener.
7. Concrete Structure: Screw Tapcon or Tapper or similar,  $\frac{3}{16}$   $\times$   $2\frac{1}{2}$  inches. Pre-drill the anchor hole per manufacturers recommendation. Drop-in powers brand mini-drop in anchor  $\frac{1}{4}$ -20  $\times$   $1\frac{1}{2}$  inch bolt. Other, see fastener manufacturers for details and information
8. Fill cavity between track and stricter with fiberglass installation structure.
9. Install wall framing, and gypsum board per manufacturers recommendation

10. Caulk the perimeter of the gypsum board wall airtight. Use fire rated acoustical caulking where required.

### Steel Frame Installation (Floor)

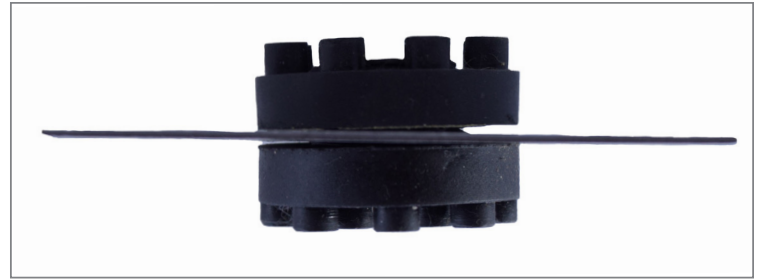
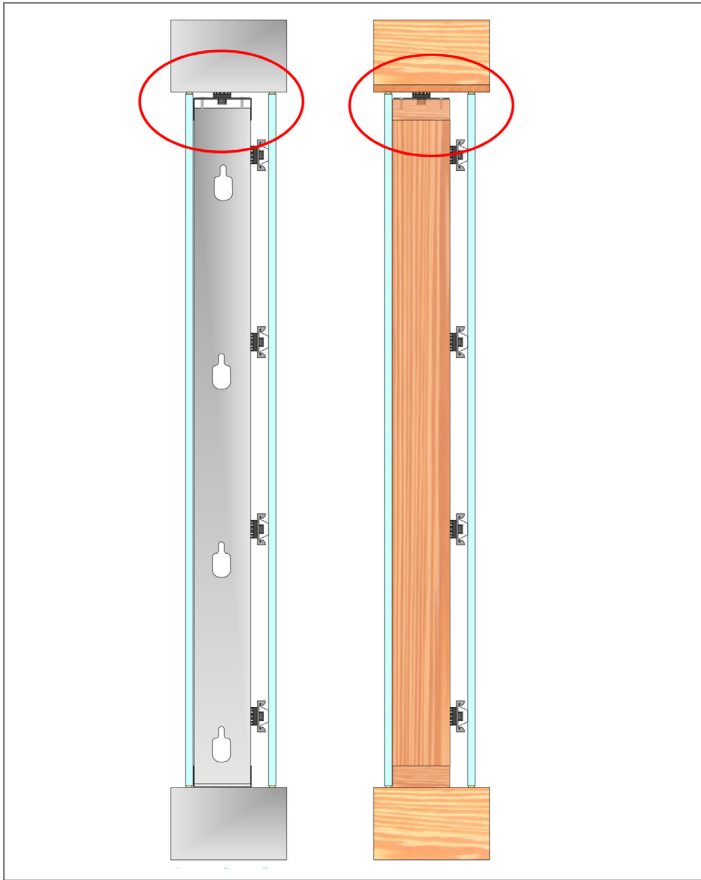
1. Drill 1 inch (minimum) hole in center of steel track located next to each stud.
2. Fasten the RSIC-U to the steel track centering the rubber isolator in the hole drilled earlier
3. Fasten RSIC-U to the track with  $\frac{7}{16}$  or  $1\frac{1}{2}$  inch framing screws.
4. Fasten the RSIC-U to the floor using appropriate fasteners for your application.
5. Steel structure use min #8  $\times$   $1\frac{5}{8}$  inch fine thread self drilling fasteners.
6. Concrete Structure: Screw in Tapcon or Tapper or similar,  $\frac{3}{16}$   $\times$   $2\frac{1}{2}$  inches. Pre-drill the anchor hole per manufacturers recommendation Drop-in Powers brand mini drop in anchor and  $\frac{1}{4}$ -20  $\times$   $1\frac{1}{2}$  inch bolt. Other, see fastener manufacturers for details and information.
7. Fill cavity between track and structure with fiberglass insulation.
8. Install wall framing, and gypsum board per manufacturer's recommendation.
9. Caulk the perimeter of the gypsum board wall airtight. Use fire rated acoustical caulking where required.

### Concrete Structure

1. Screw in Tapcon or Tapper or similar,  $\frac{3}{16}$   $\times$   $2\frac{1}{2}$  inch; pre-drill the anchor hole per manufacturers recommendation.
2. Drop in Powers' Mini Dropin anchor and  $\frac{1}{4}$ -20  $\times$   $1\frac{1}{2}$  inch bolt.
3. Other, see fastener manufacturers for details and information.
4. Fill cavity between track and structure with fiberglass insulation.
5. Avoid high density (rigid) insulation, whereas a short circuit may occur.
6. Install wall framing, and gypsum board per manufacturers recommendation
7. Caulk the perimeter of the gypsum board wall airtight. Use fire rated acoustical caulking where required to contact foreign materials, including floors, ceilings or wall framing members.
8. Ensure metal ferrule of resilient sound isolation clips is in firm contact with structural member.

### Wood Installation (Ceiling)

1. Drill a two inch hole in center of wood top and bottom plate located next to each stud location.
2. Fasten the RSIC-U to the top and bottom plate centering the rubber isolator in the 2 inch hole drilled earlier with 1 inch minimum screws.
3. Place the RSIC-Donut and washer over the small section of the RSIC-Rubber.
4. Fasten the RSIC-U to the ceiling or floor using appropriate fasteners for your application.



3. Fasten the RSIC-U to the floor using appropriate fasteners for your application.
4. Wood structure use min #8 × 2½ inch course thread fastener.
5. Steel structure use min #8 × 1⅝ inch fine thread self drilling fasteners.
6. Concrete Structure: Screw in Tapcon or Tapper or similar, ⅜ × 2½ inches. Pre-drill the anchor hole per manufacturers recommendation Drop-in Powers brand mini drop in anchor and 1¼-20 × 1½ inch bolt. Other, see fastener manufacturers for details and information.
7. Fill cavity between track and structure with fiberglass insulation.
8. Avoid high density (rigid) insulation, whereas a short circuit may occur.
9. Install wall framing, and gypsum board per manufacturer's recommendation.
10. Caulk the perimeter of the gypsum board airtight. Use fire rated acoustical caulking where required.

5. Wood structure use min #8 × 2½ inch course thread fastener.
6. Steel structure use min #8 × 1⅝ inch fine thread self drilling fasteners.
7. Concrete Structure: Screw in Tapcon or Tapper or similar, ⅜ × 2½ inches. Pre-drill the anchor hole per manufacturers recommendation Drop-in Powers brand mini drop in anchor and 1¼-20 × 1½ inch bolt. Other, see fastener manufacturers for details and information.
8. Fill cavity between track and structure with with RSIC-FGP or fiberglass insulation.
9. Avoid high density (rigid) foam insulation, whereas a short circuit may occur.
10. Install wall framing, and gypsum board per manufacturers recommendation.
11. Caulk the perimeter of the gypsum board airtight. Use fire rated acoustical caulking where required

### Wood Installation (Floor)

1. Drill 2 inch hole in center of wood top and bottom plate located next to each stud location.
2. Fasten the RSIC-U to the top and bottom plate centering the rubber isolator in the 2 inch hole drilled earlier with 1 inch minimum screws.

### 6. Availability and Cost

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

### 7. Warranty

RSIC-U HD 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](http://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

- ConstructConnect
- Additional product information is available from the manufacturer upon request ↪