**constructconnect™ spec-data®**

PAC International Inc.

# PAC International
World Leader in Noise Control Solutions

## 1. Product Name
- RSIC-V® Sound Clip

## 2. Manufacturer

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## 3. Product Description

### Basic Use

The RSIC-V is designed for use with any wood, steel or concrete application where noise control is required. This includes, wood-framed, steel-framed, CMU, or concrete wall and or ceiling systems. The RSIC-V assembly decouples the gypsum board from the structure, giving the assembly enhanced acoustical performance. With an acoustical design load rating of 36 pounds per isolator, the RSIC-V clip can support up to two layers of ⅝ inch gypsum board when spaced no more that 24 × 48 inches on center.

The RSIC-V clip fastens directly to the framing or structure and decouples the gypsum board from the structure stopping STC and IIC vibrations from entering the space adjacent. The RSIC-V systems have several UL fire resistive design assemblies from ranging one hour to two hours.

The UL assemblies can be viewed **here** or on UL.com

New construction and retrofit applications include:

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

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

### Materials and Composition

The RSIC-V clips are composed of 18 gauge galvanized or aluminum-zinc coated steel and is manufactured in Las Vegas.



### Sizes and Weight-bearing Information

1.4 × 3 inches, with an acoustical design load rating of 36 pounds per isolator.

### SDS (formerly MSDS)

SDS sheet available **here.**

### Mechanical Fasteners

**To wood framing members:** screws 1⅝ inches (41 mm) minimum length, #6 minimum shank, Type W (course thread), bugle- or hex-head screws of equal or greater size. Minimum allowable pullout and shear:  36 pounds.

**To steel framing members (less than 20 gauge/30 mil):** screws ⁹⁄₁₆ inch (25 mm) minimum length; #8 minimum shank; Type S 1 inch (fine thread); bugle- or wafer-head screws of equal or greater size. Minimum allowable pullout and shear: 108 pounds.

**To steel framing members (20 gauge/30 mil–12 gauge/97 mil):** screws 1 inch (25 mm) minimum length; #8 minimum shank; Type S (fine thread); self-drilling tip; bugle-, wafer-, or hex-head screws of equal or greater size. Minimum allowable pullout and shear: 108 pounds.

**To concrete:** anchors ¾ inch (19 mm) minimum length, ³⁄₁₆–¼ inch diameter. Mushroom head, screw-in, drop in, or shoot in type anchor in accordance with fastener manufacturer's instructions. Powers Fasteners or approved equal. Minimum allowable pullout and shear:  108 pounds.

**To concrete masonry units:**  anchors 1 inch (25 mm) minimum length, ¼ inch diameter. Designed for use in concrete masonry units in accordance with fastener manufacturer's instructions. Powers Fasteners or approved equal. Minimum allowable pullout and shear:  36 pounds.

**CSI**

## Table 1—RSIC-V UL Design Number Listings

| | | | | |
|---|---|---|---|---|
| G501 | L514 | L570 | U305 | V438 |
| G502 | L516 | L574 | U411 | V438 |
| G507 | L523 | L579 | U411 | V477 |
| G534 | L528 | L590 | U419 | V477 |
| HW D-0600 | L534 | L593 | U419 | V488 |
| HW D-0745 | L546 | M502 | U524 | V488 |
| HW D-1011 | L550 | M506 | U524 | V489 |
| ITS LP60-01 | L562 | M510 | V310 | V489 |
| ITS TSC60-01 | L569 | M514 | V310 | V498 |

\* Consult PAC International, Inc. for complete details; UL File number: R16638

**Drywall furring channel lap joint connection, steel-to-steel:** framing screws, button head, $\frac{7}{16}$ inch (11 mm) minimum length, #6 minimum shank, needle point, Phillips drive or greater, or double-wire tie with 18 gauge tie wire.

## 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

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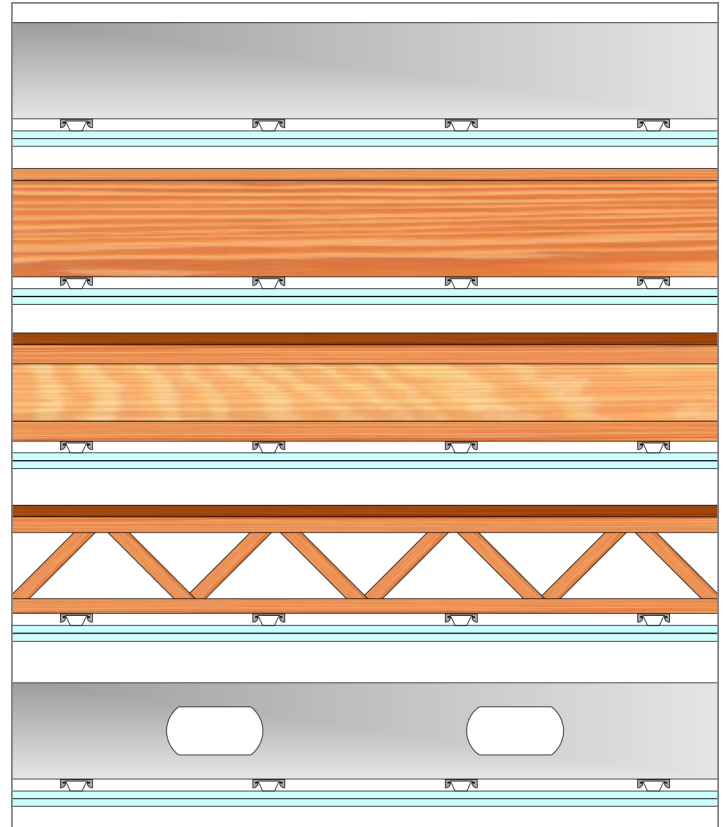- UL Fire Resistance Directory; Table 1, www.ul.com or visit **here.**

#### Underwriters Laboratories of Canada (ULc)
- UL Fire Resistance Directory. **www.ul.com**

### Environmental Considerations

The RSIC-V may contribute to LEEDS points.

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



## 5. Installation

General Information:  follow manufacturer's specific installation instructions.

- Refer to www.UL.com for complete installation details on all fire resistive assembly designs
- Resilient Sound Isolation Clip (RSIC-V), furring channel (hat track) and gypsum board shall not carry heavy loads such as cabinets or bookshelves
- Splice furring channel (hat track) with 6 inch overlap in mid span, secure with 18 gauge tie wire or with two $\frac{7}{16}$ inch framing screws
- 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-V clips to a steel stud with 25 gauge framing; reduce spacing to 24 × 24 inches maximum
- Walls: one and two layers of $\frac{5}{8}$ inch gypsum

1. Resilient Sound Isolation Clips (RSIC-V) shall be 48 inches maximum on center. (horizontal)
2. Fasten the Resilient Sound Isolation Clip (RSIC-V) to the substrate with a fastener approved for a minimum pull-out and shear of 120 pounds.
3. Ensure the RSIC-V clip is tight to the substrate.
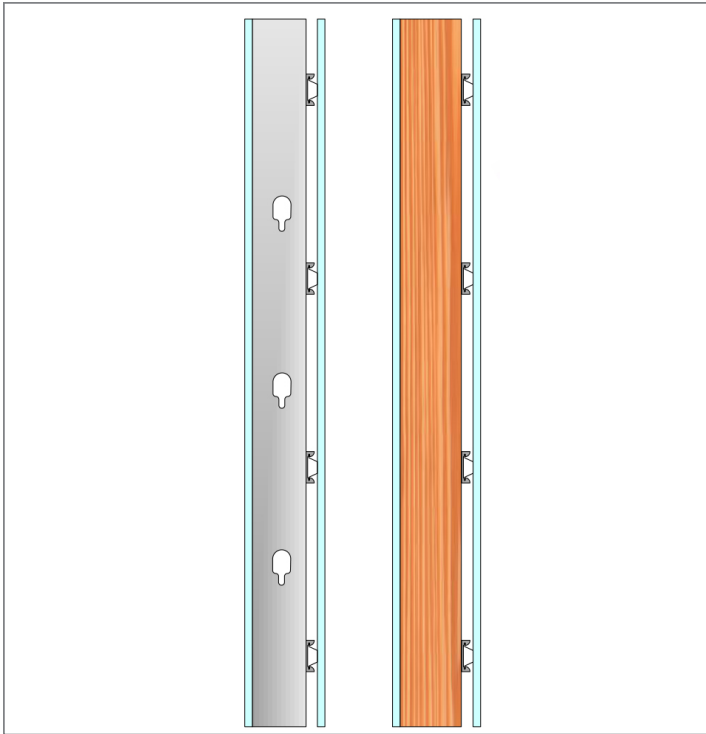
4.   Locate the first row of RSIC-V clips within 3 inches from the floor and within 6 inches from the ceiling.

5.   Snap in the drywall furring channel (hat track) into the RSIC-V clips (horizontal for walls). (see page 2 for splice details)

6.   Place $\frac{1}{4}$ inch (minimum) shim on floor to fully support the gypsum board.

7.   Install the gypsum board from the bottom up leaving a $\frac{1}{4}$ inch minimum gap around perimeter of wall.

8.   Remove the shims only after all the gypsum board is completely screwed to all the drywall furring channels.

9.   Make sure every screw (floor to ceiling and wall to wall) is installed as required by the assembly design, in every layer of gypsum board before removing the shims at the floor. The shims are critical to ensure best results.

10.  Caulk around the perimeter of the wall. Use fire- and smoke-rated acoustical sealant where required.

11.   Ceilings: one and two layers $\frac{5}{8}$ inch gypsum

12.  Resilient Sound Isolation Clips (RSIC-V) shall be 48 inches maximum on center.

13.  Fasten the Resilient Sound Isolation Clip (RSIC-V) to the substrate with a fastener approved for a minimum pull-out and shear of 120 pounds.

14.  Ensure the RSIC-V clip is tight to the substrate.

15.  Locate the first row of RSIC-V clips within 8 inches of the wall at each end of a run.

16.  Snap in the drywall furring channel (hat track) into the RSIC-V clips.

17.  Install the gypsum board leaving a $\frac{1}{4}$ inch minimum gap around perimeter of the ceiling.

18.  Caulk around the perimeter of the ceiling. Use fire and smoke-rated acoustical sealant where required.

## 6. Availability and Cost

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

## 7. Warranty

RSIC-V 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

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