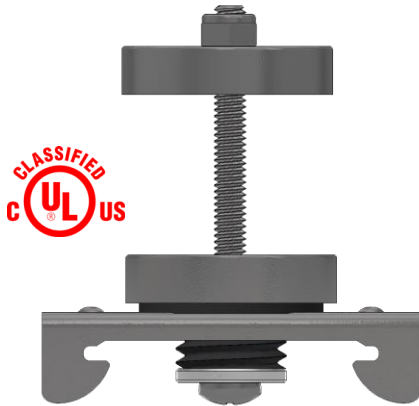




### RSIC-1 TTC

The RSIC-1 TTC® is designed for use with steel open web truss. The RSIC-1 TTC® Bolts to the bottom cord of the truss. This assembly decouples the gypsum board from the floor structure above, giving the assembly enhanced acoustical performance. With an Acoustical design load rating of 36 lbs per isolator, the RSIC-1 clip can support up to two layers of 5/8" gypsum board when spaced no more that 24" x 48" oc. The RSIC-1 systems have several UL fire resistive design assemblies from ranging one hour to four hours. The UL assemblies can be viewed at [UL.com](http://UL.com)

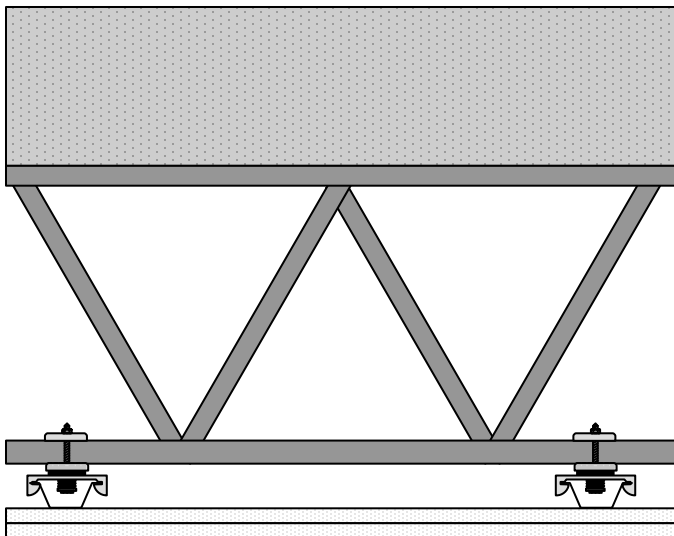


### **RSIC-1 TTC, the Low Cost, High Performance, Noise control Solution**

Steel
Condo
Commercial

Apartment
Retail
Conference Rooms

Recording Studio
Home Theater
Commercial theater



#### RSIC-1 TTC specifications:

Acoustical design load:	36 Lbs
Total deflection	3 mm
Double deflection	Yes (1.5 mm)
Low VOC	Yes
Adjustable	No
Cavity min	1-5/8"
Cavity Max	1-5/8"
Adjustment limit	N/A
Use on Ceilings	Yes
Use on walls	No
New Construction	Yes
Retro Fit	No
Assembled In USA	No



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GYPSUM BOARD ASSEMBLIES 07-26-21

PAC INTERNATIONAL, LLC.

## 1. Product Name

- RSIC-1 TTC Resilient Sound Clip System

## **RSIC-1 TTC**

## 2. Manufacturer

PAC International, LLC  
7260 W Azure Dr  
Suite 140-213  
Las Vegas, NV 89130  
Phone: (866) 774-2100  
Fax: (866) 649-2710  
Email: [info@pac-intl.com](mailto:info@pac-intl.com)  
Web: [www.pac-intl.com](http://www.pac-intl.com)

## 3. Product Description

### **RSIC-1 Retro**

The RSIC-1 TTC 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 Retro assembly decouples and isolates the gypsum board or sheet goods from the structure increasing the acoustical performance of the system.

The RSIC-1 TTC stops the noise and vibrations that typically would be allowed to transfer through the structure. The RSIC-1 Retro 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](http://www.pac-intl.com)) and on **UL.com**. (File #: R16638)

### Materials and Composition

The 18 gauge RSIC-1 TTC 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-1 TTC has an acoustical design load rating of 36 pounds per isolator. The RSIC-1 TTC clip can support up to two layers of 5/8 inch gypsum board when spaced at 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 TTC 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.

### 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 R16638**

[www.ul.com](http://www.ul.com).

The RSIC-1 Retro may contribute to LEEDS points, see Leed information on [pac-intl.com](http://pac-intl.com)

## 5. Installation

General installation: follow manufacturer's specific installation instructions.

- Install resilient sound isolation clips and drywall furring channels 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 24 x 48 inches (600 x 1200 mm) on center for walls and ceilings
- Do not exceed 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 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
- Install resilient sound isolation clips on one side of wall assembly, unless otherwise indicated on the drawings

Flanking Noise:

- 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
- Ensure metal ferrule of resilient sound isolation clips is in firm contact with structural member
- 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
- Putty Pad Sealant: acoustically seal with putty pads, electrical boxes in walls and 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-1 Retro clips have no warranty.

## 8. Maintenance

No maintenance is necessary.

## 9. Technical Services



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GYPSUM BOARD ASSEMBLIES 07-26-21

PAC INTERNATIONAL, LLC.

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

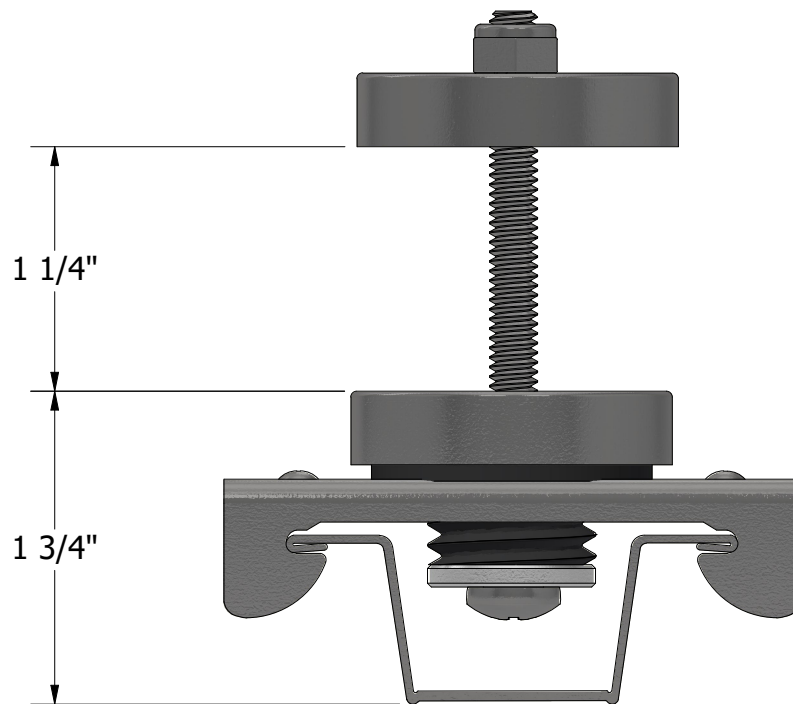
Additional product information is available from the manufacturer upon request

2

1

B

B



A

A

RSIC-1 TTC  
1" Cord

1/30/2023

SCALE

1

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2

1

1

2

1

B

B

2 3/16"

1 3/4"

A

A

RSIC-1 TTC  
2" Cord

1/30/2023

SCALE

1

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2

1

2

1

B

B

3 1/8"

1 3/4"

A

A

RSIC-1 TTC  
3" Cord

1/30/2023

SCALE

1

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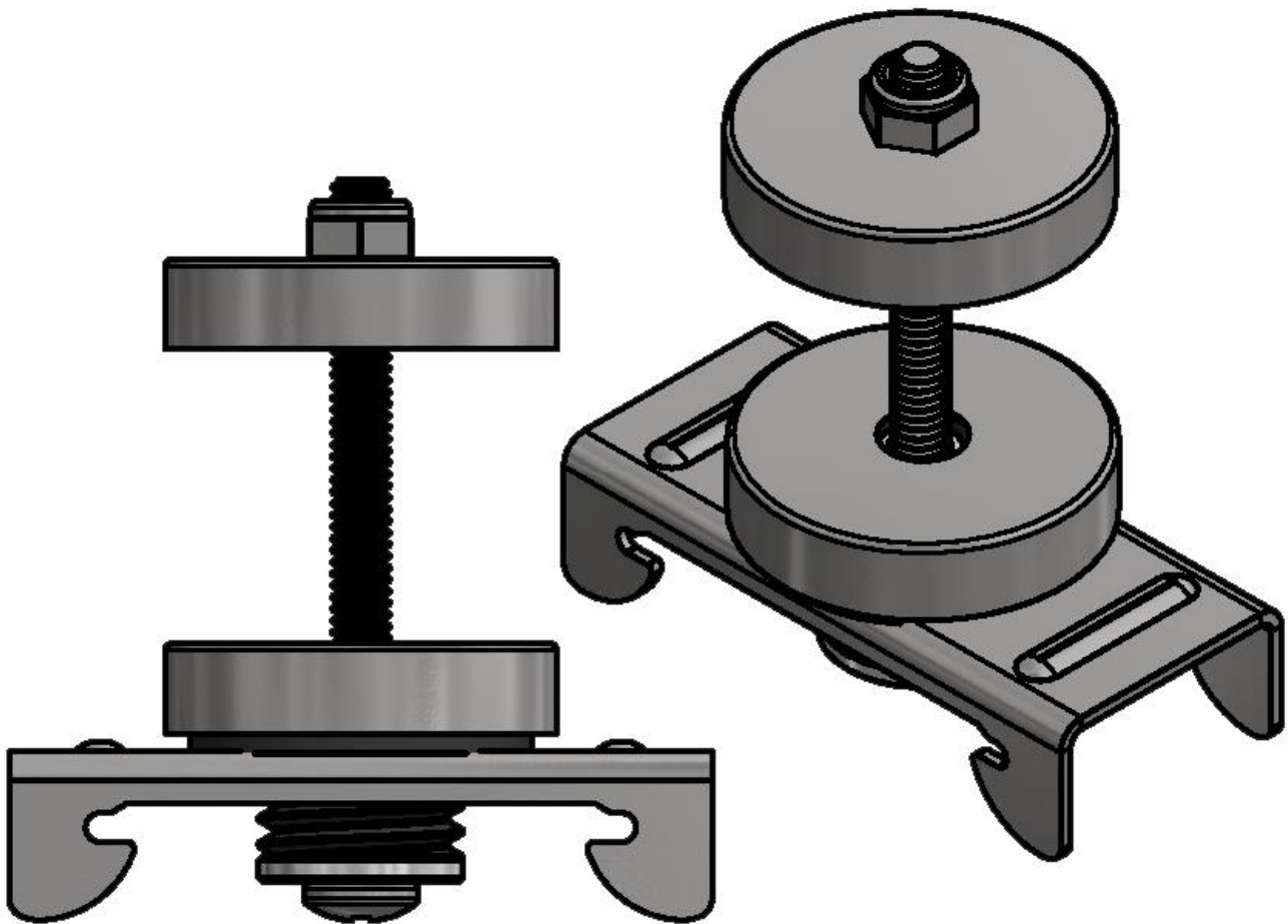


2

1

# RSIC-1 TTC SOUND ISOLATION SYSTEMS

## RSIC-1 TTC INSTALLATION GUIDE

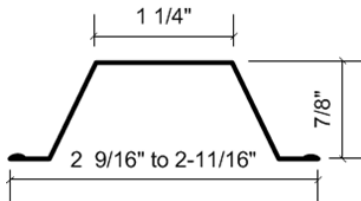


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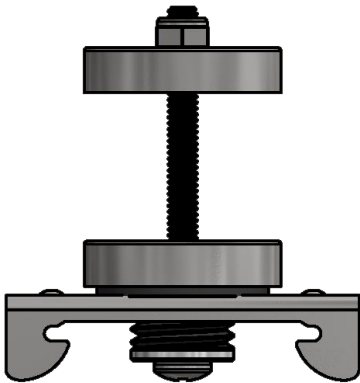
# RSIC-1 TTC SOUND ISOLATION SYSTEMS



## Drywall Furring Channel: (AKA “Hat Track”)

- **Requirements:** 25 gauge, hemmed edge detail required on all 25 gauge furring channel. Meets or exceeds SSMA requirements.
- **Depth:** 7/8 inch
- **Width Bottom:** 2-9/16” to 2-11/16” inch wide nominal.
- **Width Top:** 1-1/4 inch wide

Splice drywall furring channel (hat track) with 6 inch overlap in mid span (between two clips) secure with 18 ga tie wire, or two 7/16” framing screws.

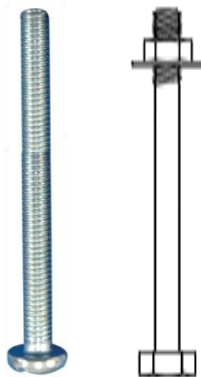


## Resilient Sound Isolation Clip (RSIC-1 TTC)

- **Maximum Spacing:** 48 inches on center
- **Maximum Acoustical Design Load:** 36 lbs

## Fasteners:

- **1/4” x 3” to 6” hex head bolt or machine screw.**



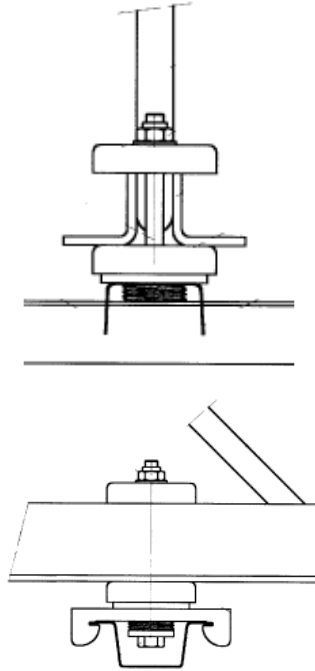
## Average Labor Rates:

- **RSIC-1:** 72 clips per man hour
- **Drywall Furring Channel:** 550LF per man hour

Labor rates provided to PAC International, Inc by an independent contracting firm.

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# RSIC-1 TTC SOUND ISOLATION SYSTEMS



## Ceilings: One and Two Layers of 5/8" Gypsum Board

### Inst

- Resilient Sound Isolation Clips (RSIC-1 TTC) shall be 48 inches maximum on center.
- Fasten the Resilient Sound Isolation Clip (RSIC-1 TTC) to the bottom chord of the open web steel truss with a fastener approved for a minimum pull-out and shear of 120 lbs.
- From top to bottom of RSIC-1 TTC assembly
  1. 1/4x20 nylock hex nut
  2. RSIC Cup Washer facing downward
  3. RSIC-1 Cup Washer facing downward
  4. RSIC-1 Clip
  5. 1/4" bolt or machine screw
- To assemble, insert the hex head bolt or machine screw through the RSIC-1 clip, set on one RSIC Cup Washer over the bolt to cover the rubber section of the RSIC-1 clip, insert the bolt or machine screw between the bottom chords of the truss, set on the top cup washer facing downward, screw on the nylock hex head nut.
- When tightening the nylock nut ensure the internal metal ferrule is tight to the cup washer. This will secure the RSIC-1 TTC clip and keep it from moving during the gypsum board installation.
- Locate the first row of RSIC-1 clips within 6 inches of the wall at each end of a run. Space the clips at 48" intervals max. See page 4 for additional spacing details.
- Snap in the drywall furring channel (hat track) into the RSIC-1 clips.
- Install the gypsum board from leaving a 1/4" min. gap around the perimeter of the ceiling.
- Caulk around the entire perimeter of the gypsum board. Use fire and smoke rated acoustical sealant where required.

### General Information:

- Refer to [www.UL.com](http://www.UL.com), or [www.pac-intl.com](http://www.pac-intl.com) for complete installation details on all fire resistive assembly designs.
- Resilient Sound Isolation Clip (RSIC-1), furring channel (hat track) and gypsum board shall not carry heavy loads such as cabinets or bookshelves.
- For focused loads add RSIC-1 Backer clip.
- Splice furring channel (hat track) with 6 inch overlap in mid span, secure with 18 ga. tie wire or with two framing screws (7/16")
- 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-1 clips to a steel stud the minimum allowable thickness is 20 ga. (0.030).



### Fire Test Information:

Approved for use in over 150 different UL fire resistive design assemblies.

Check our website for the latest updates of the fire testing approvals

[WWW.PAC-INTL.COM](http://WWW.PAC-INTL.COM)

Check UL Fire Resistance Directory File # R16638

Check UL's web pages. [www.ul.com/database](http://www.ul.com/database)

Contact UL (877) UL-HELPS

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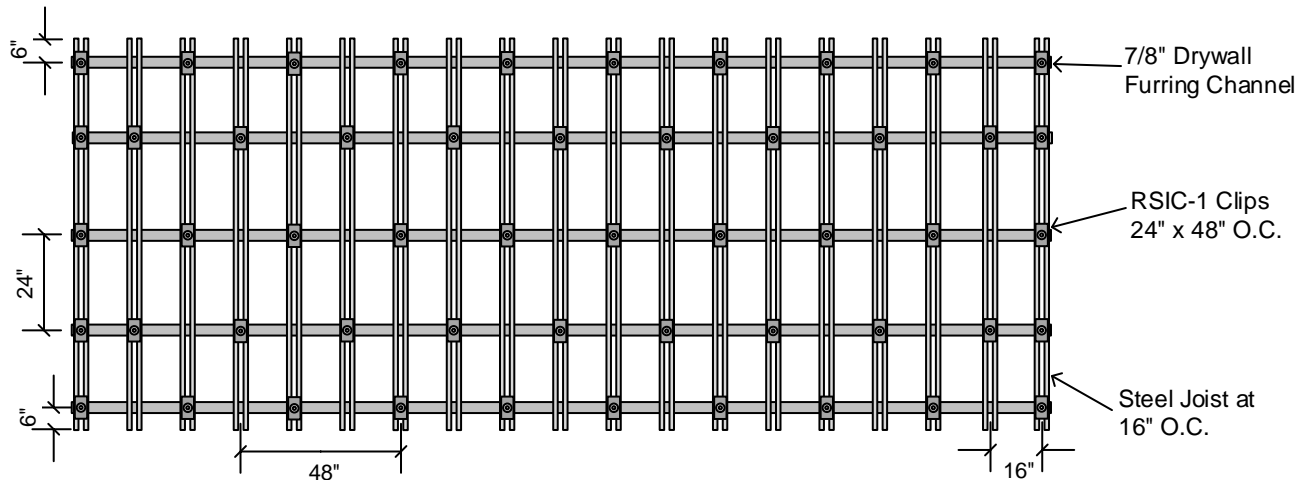
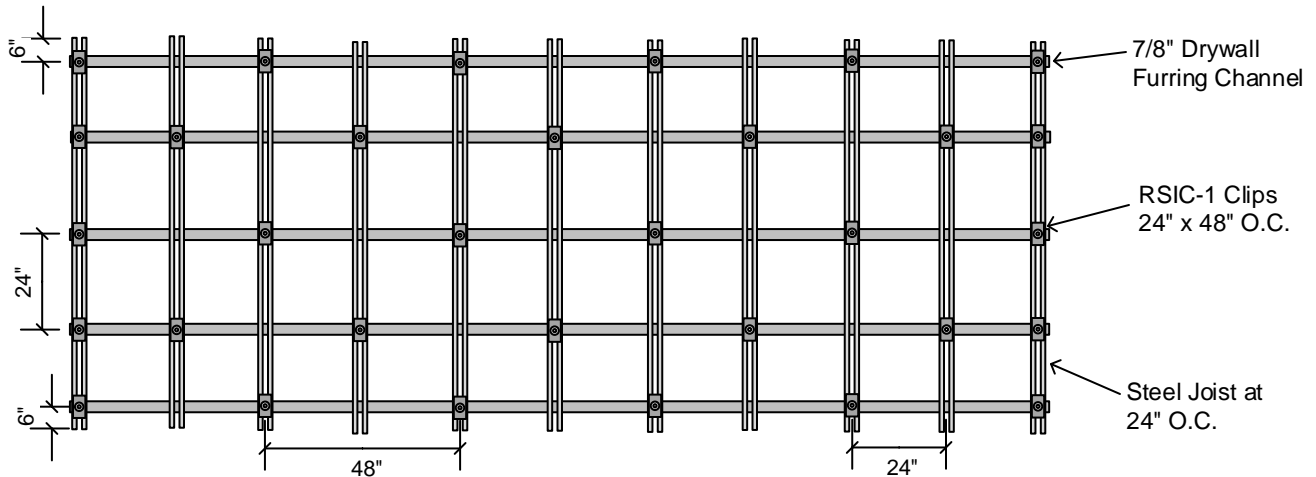
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# RSIC-1 TTC SOUND ISOLATION SYSTEMS

## APPLICATION RECOMMENDATION FOR CEILINGS

### INSTALLING RESILIENT SOUND ISOLATION CLIPS (RSIC-1TTC)

### RSIC CLIPS AT 24" OC. 1 or 2 Layers of Gyp Board



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## LEED Analysis **RSIC-1 TTC**

### **Recycled Content**

PAC International's RSIC-1 TTC does not contain significant recycled content.

### **Fabrication Location**

The RSIC-1 TTC is manufactured in 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 CFR 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 otherwise 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](http://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.



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## **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 OF 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