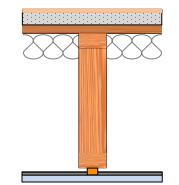


The RC-1 Boost ® is designed for use with any wood or steel application where noise control is required. This includes, wood framed or steel framed wall and ceiling systems. The RC-1 Boost product decouples the gypsum board from the structure, giving the assembly enhanced acoustical performance. With an Acoustical design load rating of 13.3 lbs per isolator, the RC-1 Boost clip can support up to two layers of 5/8" gypsum board when spaced no more that 16" x 24" oc. Final spacing of the RC-Boost isolators is determined by the UL Fire Resistive Design specifications. The RC-1 Boost clip Wraps around the screw edge of standard RC channel. The RC-1 Boost is screwed to the framing using the PAC International supplied RC-1 Boost Screw. No substitutions allowed. The RC-Boost decouples the gypsum board from the structure stopping STC and IIC vibrations from entering the space adjacent.

RC-1 Boost screw specifically designed to enhance the acoustical performance of the RC-1 Boost isolator. No substitutions allowed.

RC-1 Boost ®, A Low Cost, High Performance, **Noise control Solution**



| Wood | |
|------------------|--|
| Apartment | |
| Commercial | |
| Conference Rooms | |

| Condo |
|--------------------|
| Recording Studio |
| Home Theater |
| Commercial theater |

| RC-1 Boost ® specifications: | | |
|------------------------------|----------------|--|
| Acoustical design load: | Up to 13.3 Lbs | |
| Total deflection | 1 mm | |
| Double deflection | Yes (1 mm) | |
| Low VOC | Yes | |
| Adjustable | No | |
| Cavity min | 3/4" | |
| Cavity Max | 3/4" | |
| Adjustment limit | N/A | |
| Use on Ceilings | Yes | |
| Use on walls | Yes | |
| New Construction | Yes | |
| Assembled In USA | Yes | |

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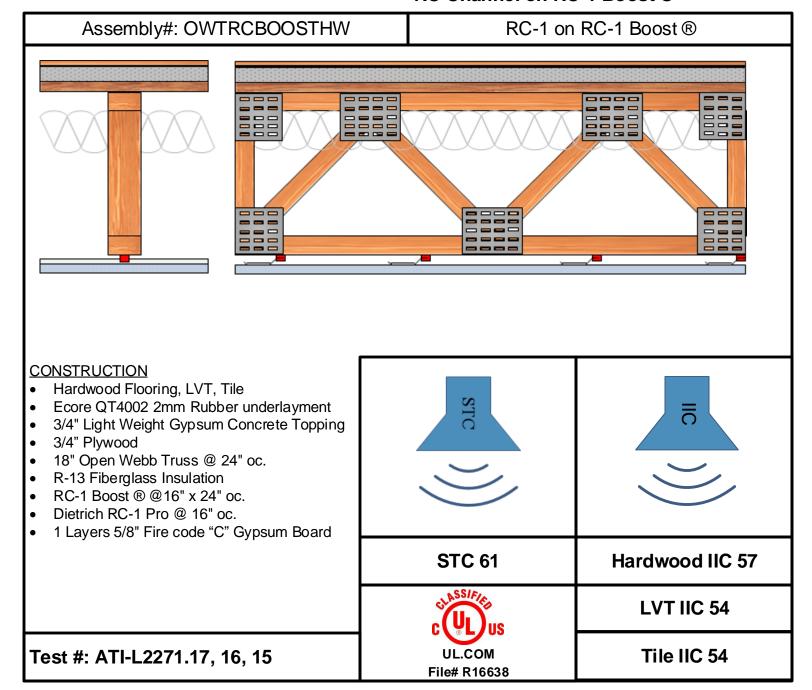






ONE HOUR FLOOR CEILING ASSEMBLY

OPEN WEB WOOD TRUSS
Hardwood Flooring, LVT, Tile
RC Channel on RC-1 Boost ®











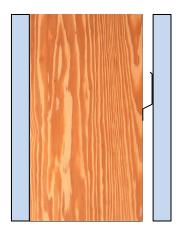
- Improve performance
- Reduce potential for short circuit
- Innovative design fits all RC Channel
- Fastener Included
- 83 ea UL Fire Rated Systems
- Made In USA

RC-1 Boost ® With **RC-1 Channel STC 52** 5/8" Type "C" Gypsum Board

- 2x4 framed Wall @16" oc
- RC-1 Boost ® Gypsum Board
- RC-1 Resilient Channel
- 5/8" Type "C" Gypsum Board

RC-Deluxe Channel

STC 49



- 5/8" Type "C" Gypsum Board
- 2x4 framed Wall @16" oc
- RC-1 Resilient Channel
- 5/8" Type "C" Gypsum Board

Tested and Approved Resilient Channels: Dietrich RC-1 pro, Cemco RC-1, Phillips RC-1 Select (Tru-25), Phillips RC-1 Max, Marino Ware RC-1, Marino Ware Rc-Max, Scafco Serenity RC-Plus.

For the full set of tests contact PAC International at info@pac-intl.com - (866) 774-2100









UL Fire Rated Designs CIKV.R16638 - Framing Members

Types RSIC-1 and RSIC-1 (2.75) for use in Design Nos. G501, G502, G503, G504, G505, G507, G510, G512, G524, G525, G534, G535, G536, G588, G551, G552, G556, G557, G558, G560, G561, G565, G575, G578, H501, H505, H514, H515, H521, H522, L502, L505, L510, L511, L513, L514, L516, L518, L521, L523, L528, L532, L534, L542, L546, L547, L550, L562, L563, L569, L570, L573, L574, L576, L579, L582, L587, L589, L590, L593, M501, M502, M506, M508, M509, M510, M514, M515, M521, M525, M527, M531, M532, M540, M545, M546, P519, P522, P533, P538, P545, P556, P561, P562, P571, P573, U301, U305, U309, U311, U320, U331, U334, U340, U341, U342, U344, U356, U411, U415, U417, U419, U421, U423, U440, U451, U453, U455, U465, U473, U493, U524, U910, U914, V310, V323, V324, V438, V455, V469, V478, V481, V488, V489, V490, V496, V498, W307, W419,W425, W440, W445, W469.

Type RSIC-1 for use in Design Nos. G501, G502, G503, G504, G505, G507, G510, G512, G524, G525, G534, G535, G536, G588, G551, G552, G556, G557, G558, G560, G561, G565, G575, G578, H501, H502, H504, H505, H507, H511, H514, H515, H516, H521, L502, L505, L510, L511, L513, L514, L515, L516, L517, L518, L520, L521, L523, L527, L528, L532, L533, L534, L535, L541, L542, L545, L546, L547, L549, L550, L551, L558, L562, L563, L565, L567, L568, L569, L570, L573, L574, L576, L579, L580, L582, L585, L586, L587, L589, L590, L592, L593, L597, L598, M501, M502, M503, M506, M508, M509, M510, M513, M514, M515, M516, M518, M519, M520, M521, M522, M524, M525, M527, M529, M531, M532, M535, M536, M537, M540, M541, M544, M545, M546, M549, P519, P522, P533, P545, P556, P561, P562, P571, P573, U301, U305, U309, U311, U320, U331, U334, U340, U341, U342, U344, U356, U411, U415, U417, U419, U421, U423, U440, U451, U453, U455, U465, U473, U493, U524, U910, U914, V310, V323, V324, V438, V455, V469, V478, V481, V488, V489, V489, V490, V496, V498, W307, W419, W425, W440, W445, W469.

Type RSIC-1 also Classified in accordance with ASTM E90-99, "Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements". See Design Nos. G505, U305, U304, V310, for STC rating.

Type RSIC-1 also Classified in accordance with ASTM E492-96, "Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine". See Design No. G505 for IIC rating.

Types RSIC-V and RSIC-V (2.75) for use in Design Nos. G501, G502, G507, G534, H514, L513, L514, L516, L521, L523, L528, L534, L546, L550, L562, L569, L570, L574, L579, L587, L590, L593, M502, M501, M506, M508, M509, M510, M514, M531, M540, P522, P533, P545, P556, P571, U305, U411, U419, U524, V310, V323, V324, V438, V489, V489, V498, W307.

Type RSIC-S1-1 Ultra for use in Design Nos. H501, H502, H503, H504, H505, H507, H509, H511, H513, H515, H516, H522, L502, L513, L514, L515, L516, L517, L518, L520, L521, L523, L527, L528, L532, L533, L534, L535, L541, L542, L545, L546, L547, L549, L550, L551, L558, L560, L562, L563, L564, L565, L567, L568, L569, L570, L573, L574, L576, L579, L580, L583, L585, L586, L587, L589, L590, L592, L593, L597, L598, M501, M502, M503, M506, M508, M509, M513, M514, M516, M518, M519, M520, M522, M524, M526, M527, M529, M531, M532, M535, M536, M537, M539, M540, M541, M544, M545, M546.

Type RSIC-SI-CRC EZ Clip for use in Design Nos. H501, H502, H503, H504, H505, H507, H509, H511, H513, H515, H522, L502, L513, L514, L515, L516, L517, L518, L520, L521, L523, L527, L528, L532, L533, L534, L535, L541, L542, L545, L546, L547, L549, L550, L551, L558, L560, L562, L563, L564, L565, L567, L568, L569, L570, L573, L574, L576, L579, L580, L583, L585, L586, L587, L589, L590, L592, L593, L597, L598, M501, M502, M503, M506, M508, M509, M513, M514, M516, M518, M519, M520, M522, M524, M526, M527, M529, M531, M532, M536, M536, M537, M539, M540, M541, M544, M545, M546. M549.

Type RSIC-U HD for use in Joint System Nos. HW-D-0034, HW-D-0043, HW-D-0044, HW-D-0060, HW-D-0079, HW-D-0103, HW-D-1011 in Volume 2 of the Fire Resistance Directory.

Types RC-1 Boost ® and RC Boost Deluxe C-D for use in Design Nos. H502, L502, L510, L511, L513, L515, L518, L521, L523, L528, L533, L534, L535, L541, L545, L546, L547, L550, L558, L562, L563, L569, L570, L574, L576, L579, L587, L589, L590, L591, L592, L593, L601, M501, M502, M503, M506, M508, M509, M510, M516, M518, M519, M520, M523, M525, M526, M531, M532, M535, M537, M539, M540, M544, M546, M551, M552, U301, U305, U309, U311, U320, U327, U331, U334, U340, U341, U342, U344, V310, V315, V316, V319, V323, V324, W301, W307.





GYPSUM BOARD ASSEMBLIES 09-21-16

PAC INTERNATIONAL, LLC.

1. Product Name

•RC-1 Boost ®

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

Web: www.pac-intl.com

3. Product Description

RC-1 Boost ®

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

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

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

Materials and Composition

The RC-1 Boost ® rubber isolators are made of natural or man made rubber like compounds.

Environmental Considerations

The RC-1 Boost may contribute to LEEDS points. The rubber RC-1 Boost ® fittings can be recycled. The steel recycled content is less than 10 percent as required for fire life and safety regulations.



RC-1 BOOST®

Sizes and Weight-bearing Information

With an acoustical design load rating of 13.3 pounds per isolator, The RC-1 BOOST \circledR clip can support up to two layers of 5/8" inch gypsum board when spaced at 24 \times 16 inches on center. For heavier systems increase the number of isolators and channel to support the additional weight of the system. The RC-1 BOOST \circledR fastens directly to the framing or structure creating a 3/4" 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). Max load 13.3 Lbs

4. Technical Data

Divisions: 09-2000

09-8000 09-8500 10-2000

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 Manufacturing Location

•RC-1 Boost is made in the USA.



GYPSUM BOARD ASSEMBLIES 09-21-16

PAC INTERNATIONAL, LLC.

5. Installation

General installation:

follow manufacturer's specific installation instructions.

- •Install RC-1 Boost ® on RC-1 Channel to walls and ceilings with RC-1 Boost ® supplied fastener.
- •Install RC-1 Boost ® and Resilient channel following the manufacturer recommendations.
- Mechanically fasten RC-1 Boost and resilient channel to wood or steel structure with screws supplied by manufacturer.
- Tighten fastener until the head of the screw just touches the RC-1 Boost isolator
- Use the RC-1 Boost install tool to help ensure the correct screw installation.
- •Install all RC-1 channel facing the same direction.
- Space resilient sound isolation clips at maximum of 24 x 16 inches (600 x 460 mm) on center for walls and ceilings
- Do not exceed design load (pull and shear) of 13.3 pounds per isolation clip
- RC-1 Channel Joints:
 - Butt RC-1 channels to each other using one RC-1 Boost isolator on each end of RC-1 Channel
- Flanking Noise:
 - Review installation details to prevent structure-borne flanking noise
 - Do not allow resilient channels or gypsum board to contact foreign materials, including floors, ceilings, or wall framing members
- 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
 - Acoustically seal electrical boxes in walls and ceilings with Putty Pads or acoustically rated cover plates
- 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

6. Availability and Cost

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

7. Warranty

The RC-1 Boost ® has 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

Additional product information is available from the manufacturer upon request

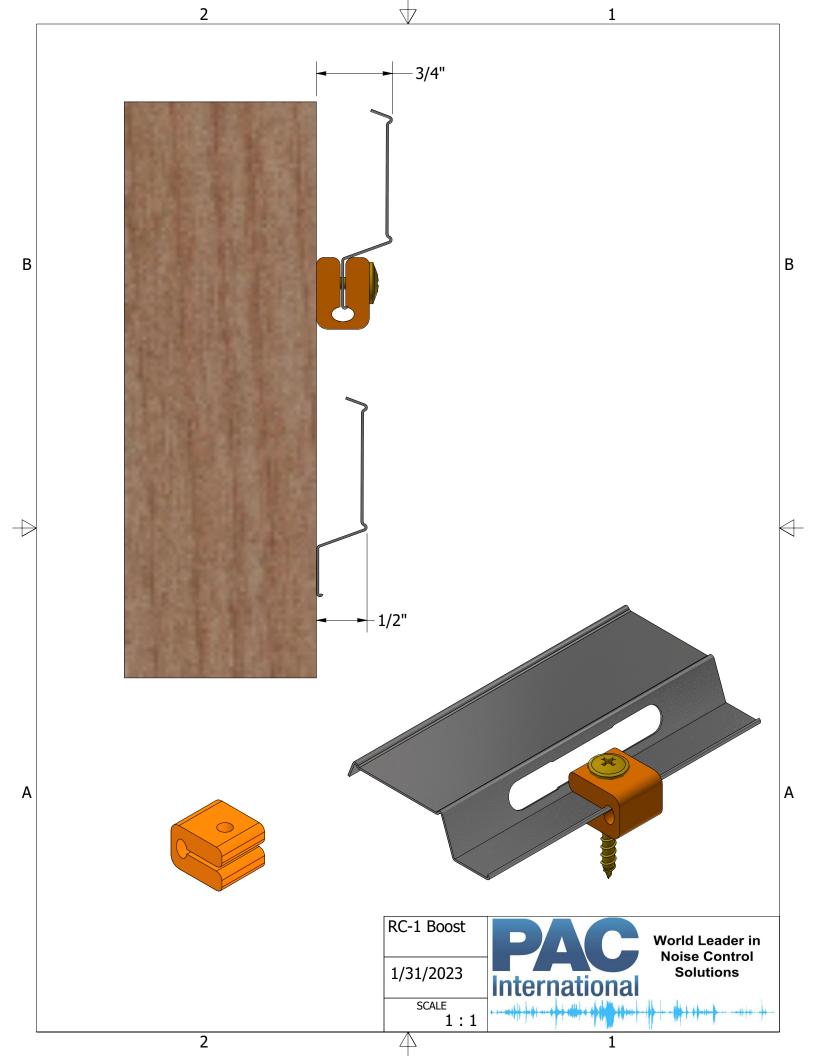
10. Fire Rating

See UL.com File number R16638

•Types RC-1 Boost For Use In Design Nos:

Nos. H502, L502, L510, L511, L513, L515, L518, L521, L523, L528, L533, L534, L535, L541, L545, L546, L547, L550, L558, L562, L563, L569, L570, L574, L576, L579, L587, L589, L590, L591, L592, L593, L601, M501, M502, M503, M506, M508, M509, M510, M516, M518, M519, M520, M523, M525, M526, M531, M532, M535, M537, M539, M540, M544, M546, M551, M552, M563, U301, U305, U309, U311, U320, U327, U331, U334, U340, U341, U342, U344, V310, V315, V316, V319, V323, V324, V346, W301, W307.

• *For Use with USG ULIX in UL design L521, L528, L546, L587, M522, Use supplied 2" RC-1 Boost fastener. All other gypsum board in these assemblies please use the standard 1-5/8" fastener.





World Leader in Noise Control Solutions





RC-1 BOOST ® INSTALLATION GUIDE

RC-1 BOOST®

Wood Framed Walls and Ceilings



PAC International, LLC. Tel: (866) 774-2100 Web Site: www.pac-intl.com



RC-1 Boost ® Isolator Spacing and Load:

- Maximum Acoustical Design Load: 13.3 lbs
- Maximum Spacing Allowed: 24" x 16" oc.



RC-1 Boost ® Fastener:

- RC-1 Boost ® to Wood: Use supplied RC-1 Boost fastener.
- DO NOT fasten RC-1 Boost ® to framing members with nails.
 Use only supplied fastener.



RC-1 Boost ® Dimensions:

- RSIC-1 Boost Isolator 1/2" Tall
- RSIC-1 Boost Isolator 5/8" Wide
- RSIC-1 Boost Isolator 3/4" Deep



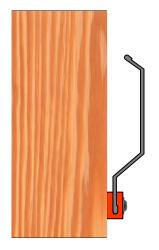
RC-1 Boost ® Fire Rating:

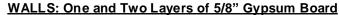
See UL.COM File number R16638 for approved designs

General Information:

Refer to www.UL.com, or www.pac-intl.com for complete installation details on all fire resistive assembly designs. Resilient Sound Isolator RC-1 Boost shall not carry heavy loads such as cabinets or bookshelves Seal all potential air leaks with non-hardening acoustical caulking to achieve best noise control results. Use fire rated sealant where required.

PAC International, LLC. Tel: (866) 774-2100 Web Site: www.pac-intl.com



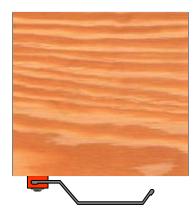


- RC-1 Boost shall be 24 inches on center when framing is 16inches on center, or 16 inches on center when framing is 24 inches on center.
- Place the RC-1 Boost over the RC-1 channel at the pre punched hole.
- Insert the screw through the RC-1 Boost and the pre punched hole in RC-1 channel.
- Fasten the RC-1 Boost to the framing with the fastener provided.
- RC-1 Boost is just touching the faming and screw head.
- Do not overtighten the RC-1 boost.
- Locate the first row of RC-1 channel with RC-1 Boost within 3 inches from the floor and within 6 inches from the ceiling.
- All RC-1 channel are to be facing the same direction.
- Place 1/4" (minimum) shim on floor to fully support the gypsum board.
- Install the gypsum board from the bottom up leaving a 1/4" min. gap around the perimeter of the wall.
- ONLY remove the shims after ALL the gypsum board is completely screwed to ALL the drywall furring channels. Make sure every screw (floor to ceiling and wall to wall) is installed as required by the assembly design, in every layer of gyp sum board before removing the shims at the floor. The shims are critical to ensure best results.
- Caulk around the entire perimeter of the gypsum board. Use fire and smoke rated acoustical sealant where required.



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

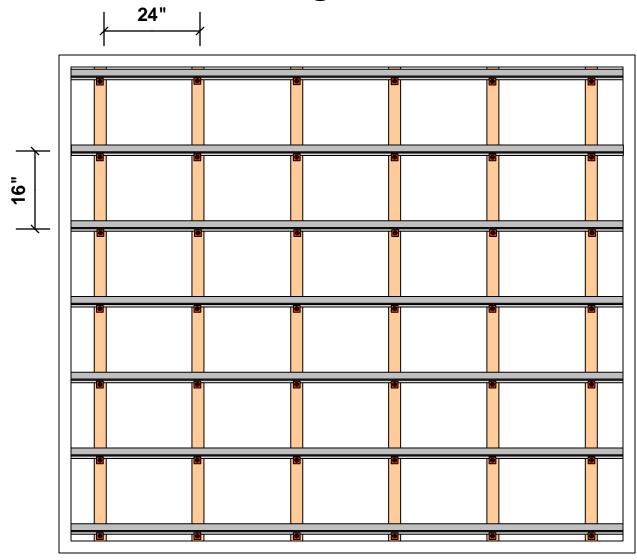
- RC-1 Boost shall be 24 inches on center when framing is 16inches on center, or 16 inches on center when framing is 24 inches on center.
- Place the RC-1 Boost over the RC-1 channel at the pre punched hole.
- Insert the screw through the RC-1 Boost and the pre punched hole in RC-1 channel.
- Fasten the RC-1 Boost to the framing with the fastener provided.
- Ensure RC-1 Boost is touching the faming and screw head.
- Do not overtighten the RC-1 boost.
- All RC-1 channel are to be facing the same direction.
- Locate the first row of RC-1 channel with RC-1 Boost within 3 inches from the wall.
- Install the gypsum board 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.



APPLICATION RECOMMENDATIONS FOR CEILING, WOOD OR STEEL FRAMING.

INSTALLING RESILIENT SOUND ISOLATION CLIPS (RC-1 Boost ®)

RC-1 Boost ® @ 16" oc. Framing @ 24" oc.

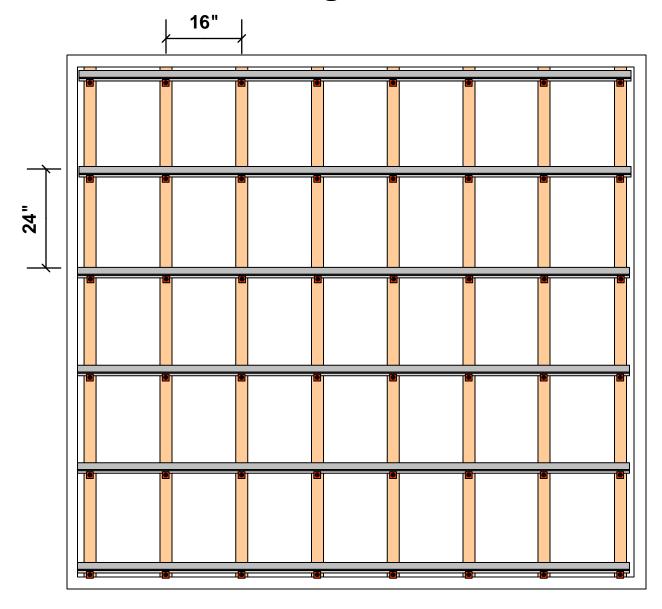


PAC International, LLC. Tel: (866) 774-2100 Web Site: www.pac-intl.com

APPLICATION RECOMMENDATIONS FOR CEILING, WOOD OR STEEL FRAMING.

INSTALLING RESILIENT SOUND ISOLATION CLIPS (RC-1 Boost ®)

RC-1 Boost ® @ 24" oc. Framing @ 16" oc.



Go to UL.com to verify spacing on your assembly

PAC International, LLC. Tel: (866) 774-2100 Web Site: www.pac-intl.com

PAC International, LLC. All Rights Reserved. • (866) 774-2100 • Fax (866) 649-2710 RC-1 Boost® is a registered Trade Mark



LEED Analysis RC-1 Boost ®

Recycled Content

PAC International's RC-1 Boost ® does not contain signification recycled content.

Fabrication Location

The RC-1 Boost ® 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 CRF 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 other wise 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

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.



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 OR 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

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