

## 1. Product Name

- RC-1 Boost

## 2. Manufacturer

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## 3. Product Description

### RC-1 Boost

The RC-1 Boost is designed for use with any 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](http://www.pac-intl.com)) and on **UL.com**. (File #: R16638)

### Materials and Composition

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

### Environmental Considerations

The RC-1 Boost may contribute to LEEDS points. The RC-1 Boost increases the acoustical performance ID1. Improves Indoor Environment Quality IEQ2



### Sizes and Weight-bearing Information

With an acoustical design load rating of 13.3 pounds per isolator, The RC-1 BOOST clip can support up to two layers of 5/8" inch gypsum board when spaced at 24 x 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 clip 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

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:** Visit [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)

### Manufacturing Location

- RC-1 Boost is made in the USA.

## RC-1 BOOST

## 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 structure with screws supplied by manufacturer.
- Tighten fastener until the head of the screw just touches the RC-1 Boost isolator
- Install all RC-1 channel facing the same direction.
- Space RC-1 Boost at maximum of 24 x 16 inches (609 x 406 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
  - Install gypsum board following gypsum board manufacturer recommended screw spacing
- Acoustical Sealant:
  - Seal potential air leaks with acoustical sealant to achieve best Field Sound Transmission Class (FSTC)
  - 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 RC-1 Boost to fire-rated assemblies

## 6. Availability and Cost

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

## 7. Warranty

RC-1 Boost clips have no warranty.

## 8. Maintenance

No maintenance is necessary.

## 9. Technical Services

PAC International LLC. 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