1. Product Name

- RC-1 Boost

2. Manufacturer

PAC International, LLC
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Las Vegas, NV 89130
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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) 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 clip can support up to two layers of 5/8” inch gypsum board when spaced at 24 × 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;** 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.

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 resilient sound isolation clips at maximum of 24 × 16 inches (600 × 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

RC-1 Boost clips 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