

1. Product Name

PAC-RCB (RESILIENT CHANNEL BACKER)

- **MODEL NUMBER:** PAC-RCB Sound Isolator.
 - PAC-RCB Sound Isolator

2. Manufacturer

PAC International, LLC
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3. Product Description

PAC-RCB SERIES, RESILIENT CHANNEL BACKER MODEL NUMBER: PAC-RCB

PAC-RCB is designed for use with all resilient channel wall systems where support for heavy loads like cabinets, bookshelves, headboards, shelving, etc. is required. The PAC-RCB stops the noise and vibration that typically would be allowed to transfer from room to room through the structure when heavy loads are mounted directly to the wall framing when resilient channels are used.

Materials and Composition

The PAC-RCB isolator is made of natural rubber and/or manufactured rubber compound, a product-specific fastener, and steel parts. All isolation components are provided by the manufacturer. The supporting cross member/backer (wood or steel) is supplied by others.

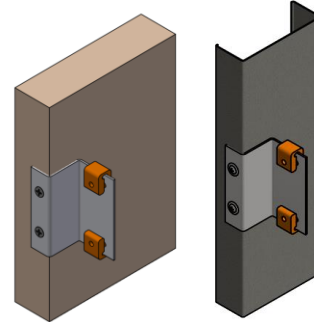
Environmental Considerations

The PAC-RCB may contribute to LEED points by reducing materials needed to achieve high STC ratings. The rubber and steel portions can be recycled.

Weight-bearing Information

The PAC-RCB has an Acoustical Design Load (ADL) rating of up to 25 pounds per bracket (two rubber isolators) or fifty (50#) pounds per stud bay per cross member/backer. The PAC-RCB fastens directly to the wall framing and supports a steel or wood backer section/cross member for mounting cabinets, headboards, shelving, heavy art, etc.

PAC-RCB



Product Limitations

For interior use only with operating temperatures of 40–100 degrees F (4.4–37.8 degrees C).

4. Technical Data

Division:	05-7000
	09-2000
	09-2240
	09-8000
	09-8500
	10-2000
	12 3800

Applicable Standards

ASTM International (ASTM)

- **ASTM E90** Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- **ASTM E336** Standard Test Method for Measurement of Airborne Sound Attenuation between Rooms in Buildings
- **ASTM E413** Classification for Rating Sound Insulation

5. Installation

General installation:

Follow the manufacturer's specific installation instructions.

- Install PAC-RCB Resilient Channel Backer following the manufacturer's recommendations.
- Trim the backer/blocking material (by others) to fit between wall studs minus 1".
 - For wood-framed walls use min. 2x4 wood blocking.
 - For steel-framed walls use min. 20 gauge 3-1/2" steel stud and track.
- Install the PAC-RCB Isolators to the wood or steel backers using screws provided by the manufacturer
Do not allow the backer/blocking to contact the metal part of the PAC-RCB.
- Tighten each screw until the head of the screw just touches the RCB isolator. Do not compress the rubber.
- A specially designed depth stop for drywall screw guns is available upon request.
- Install the PAC-RCB on the wall framing to support the top and bottom of the upper cabinets, and the top of the lower cabinets.
- For other items the appropriate number of PAC-RCBs should be determined based on the item size and weight.
- Fasten the PAC-RCB to the structure
 - For wood-framed walls use #6 x 1-1/4" long wafer head coarse thread screws, two per bracket.
 - For steel-framed walls use #7 x 9/16" long self-drilling fine thread screws.
- Max acoustical design load of the PAC-RCB is 25 lbs. per bracket and 50 lbs. per pair.
- Max stud spacing for use of the PAC-RCB is 24" on center.
- Flanking Noise:
 - Review installation details to prevent structure-borne flanking noise
 - Do not allow backing/blocking part of PAC-RCB to contact wall framing members.

- Gypsum Board:
 - Install PAC Perimeter tape to side walls and ceiling where gypsum board abuts other walls and ceilings.
 - Install gypsum board on the wall perpendicular to the Resilient Channel. The perimeter of the gypsum board should be in contact with the PAC perimeter tape. Caulk over the gap with acoustical sealant.
 - Install gypsum board in accordance with ASTM C840 as specified in Section 09250
- Cabinets:
 - Install cabinets with wood or steel screws long enough to penetrate the gypsum board and the PAC-RCB backer system (min. 2" for wood and min. 1-1/2" for steel).
 - Attach cabinets to the PAC-RCB backing system ONLY. Do not screw into the studs.
 - Base cabinets can be mounted on the floor and supported from the wall only at the top using the PAC-RCB system.
- Acoustical Sealant:
 - Seal potential air leaks with acoustical sealant to achieve the best Field Sound Transmission Class (FSTC)
 - Seal electrical outlets and penetrations with acoustical sealant
 - Apply fire-rated acoustical sealant at locations where a 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

PAC-RCB clips are guaranteed free of manufacturer defects. The only remedy is the replacement of the defective component or components. The manufacturer is not liable for delays or extra costs.



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GYPSUM BOARD ASSEMBLIES 2022

PAC INTERNATIONAL, LLC.

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, <http://www.pac-intl.com>, or by calling 866-774-2100

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