RSIC-1 INSTALLATION GUIDE

RSIC-1 SOUND ISOLATION CLIP

CLASSIFIED C UL US

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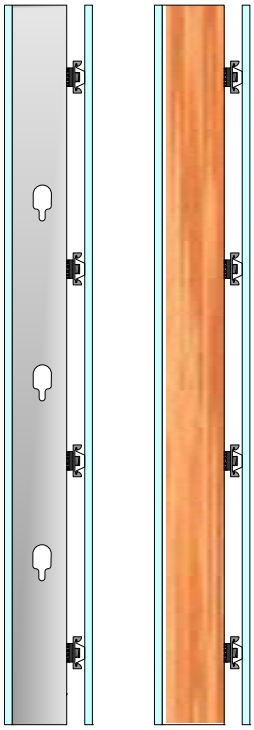
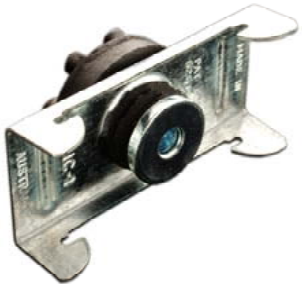
PAC INTERNATIONAL, INC.

RSIC-1 SOUND ISOLATION CLIP



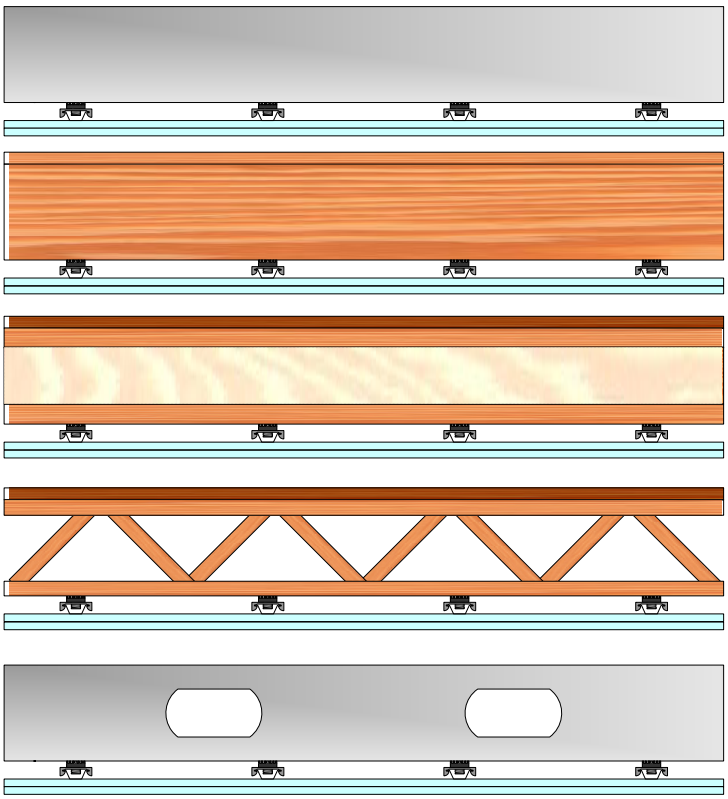


RSIC-1

The **RSIC-1** 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 assembly decouples and isolates the gypsum board or plywood from the structure increasing the acoustical performance of the system. 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 at 24" x 48" oc. For heavier systems increase the number of isolators to support the additional weight of the system. The RSIC-1 clip fastens directly to the framing or structure creating a 1-5/8" cavity between the face of the framing and the back of the gypsum board. The RSIC-1 stops the noise and vibrations that typically would be allowed to transfer throught the structure. The RSIC-1 systems have several UL fire resistive design assemblies from ranging one hour to four hours. The UL assemblies can be viewed on our site at http://pac-intl.com/fire_ratings_list.html, and on UL.com

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

Wood	Concrete	Apartment	Recording Studio
Steel	Condo	Retail	Home Theater
Metal deck	Commercial	Conference Rooms	Commercial theater



RSIC-1 specifications:	
Acoustical design load:	36 Lbs
Total deflection	3 mm
Double deflection	Yes (1.5 mm)
Made in the USA	Yes
Made with Recycled content	Yes
Low VOC treated	Yes
Adjustable	No
Cavity min	1-5/8"
Cavity Max	1-5/8"
Adjustment limit	N/A
Use on Ceilings	Yes
Use on walls	Yes
New Construction	Yes
Retro Fit	Yes

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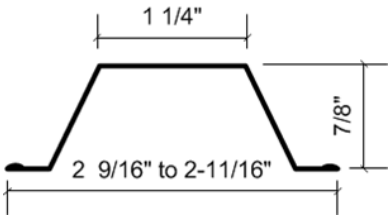


Drywall Furring Channel:

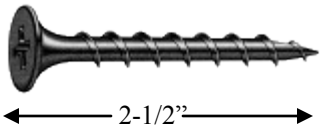
- **Recomended:** 25 gauge, hemmed edge detail required on all 25 gauge furring channel. Meets or exceeds SFIA requirements.
- **Depth:** 7/8 inch
- **Width Bottom:** 2-9/16” to 2-11/16” inch wide nominal.
- **Width Top:** 1-1/4 inch wide

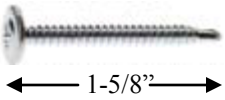
Splice drywall furring channel (hat track) with 6 inch overlap in mid span (between two clips) secure with 18 ga tie wire, or two 7/16” framing screws.

Resilient Sound Isolation Clip (RSIC-1)

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

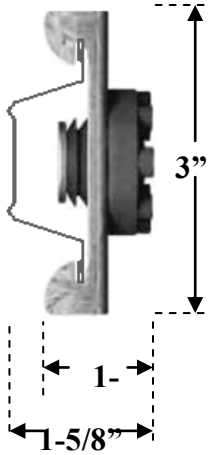
Fasteners:





- **RSIC-1 to Wood:** #8 x 2-1/2 inch minimum size coarse thread screw. (Recommended #12 or #10 x 2-1/2 inch hex head)
- **RSIC-1 to Steel:** # 8 x 1-5/8 inch minimum size fine thread screw. (Recommended #12 or #10 x 1-5/8 inch hex head)
- DO NOT fasten Resilient Sound Isolation Clips (RSIC-1) to framing members with nails. Use only approved screws.

RSIC-1 Dimensions:



- RSIC-1 clip 3” tall
- RSIC-1 clip 1-1/4” deep
- RSIC-1 and drywall furring channel 1-5/8” deep

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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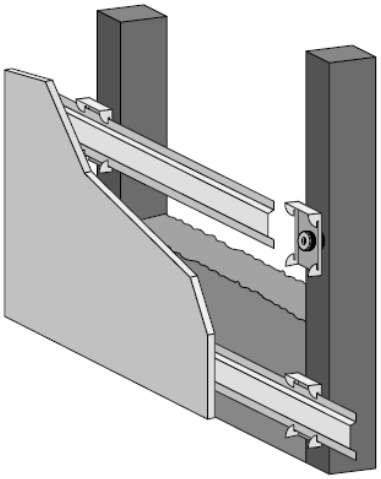
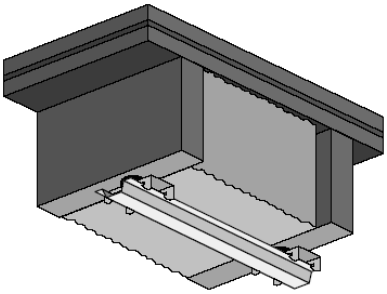


WALLS: One and Two Layers of 5/8" Gypsum Board

- Resilient Sound Isolation Clips (RSIC-1) shall be 48 inches maximum on center (horizontal).
- Fasten the Resilient Sound Isolation Clip (RSIC-1) to the substrate with a fastener approved for a minimum pull-out and sheer of 120 lbs.
- Ensure the internal metal ferrule is tight to the substrate. • Locate the first row of RSIC-1 clips within 3 inches from the floor and within 6 inches from the ceiling.
- Snap in the drywall furring channel (hat track) into the RSIC-1 clips (horizontal for walls). (see page 2 for splice details)
- 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 gypsum 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

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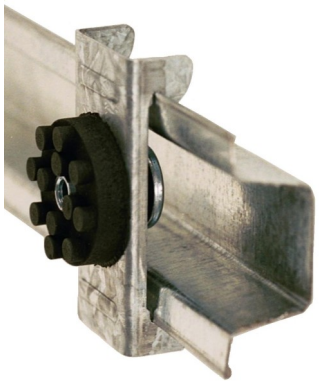
- Ensure the internal metal ferrule is tight to the substrate.
- Locate the first row of RSIC-1 clips within 8 inches of the wall at each end of a run.
- Snap in the drywall furring channel (hat track) into the RSIC-1 clips.
- Install the gypsum board from leaving a 1/4" min. gap around the perimeter 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, or 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
- 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 UL Fire Resistance Directory File # R16638 for PAC International.

Contact us with any questions about Fire Testing or Installation.

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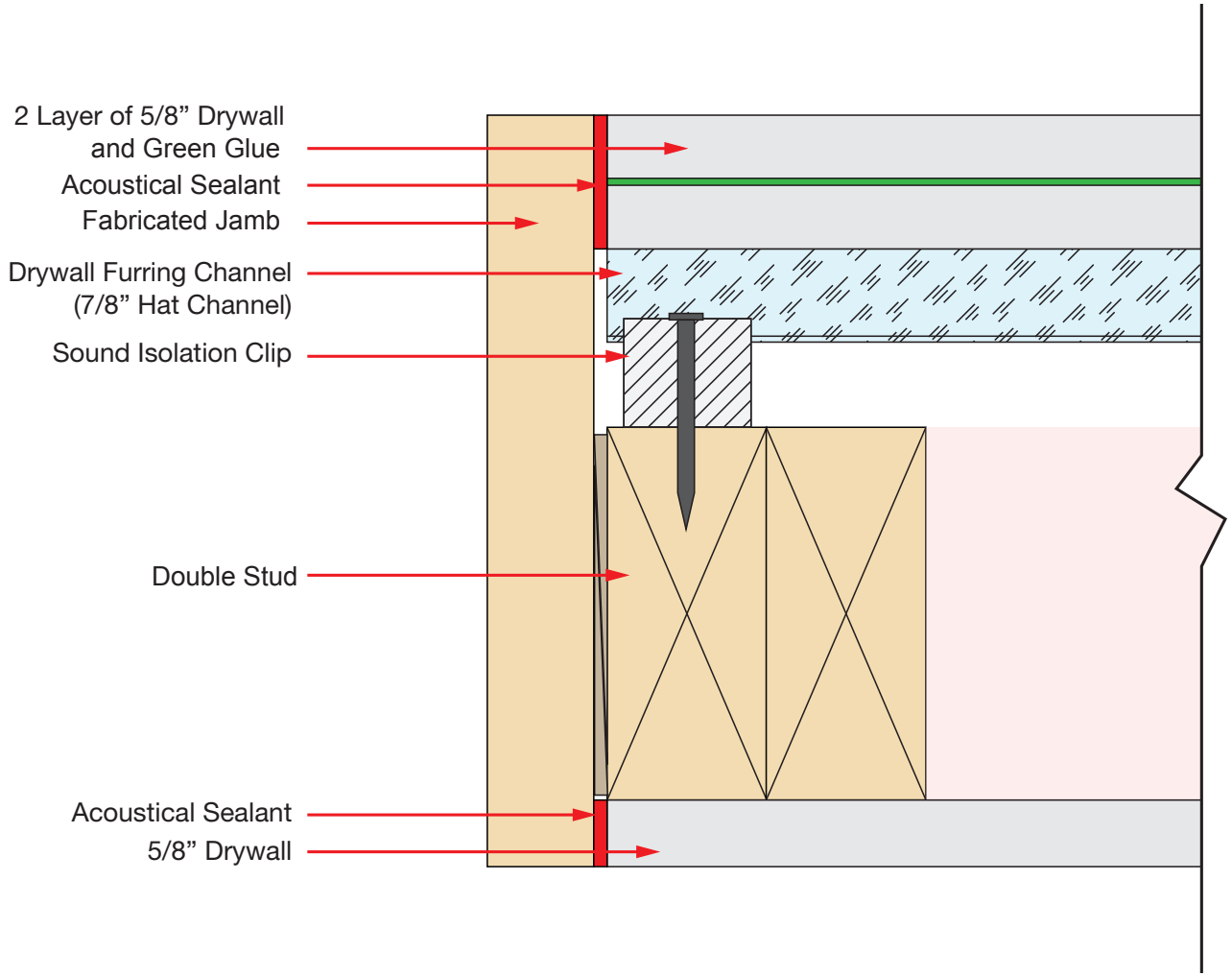
JAMB EXTENSION DETAIL



Notes: 1) Fabricate door jams with 2 x material. Jamb width must cover all drywall layers- leave a small gap and fill with sealant.
2) Channel should not intersect with jamb
3) Door Trim should be attached to either jamb or drywall , NOT both

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