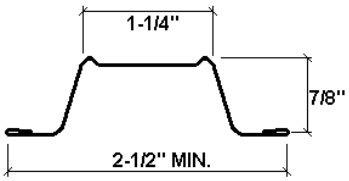
Resilient Sound Isolation Clips, RSIC-1

Installation Guide for Wood and Steel Studs



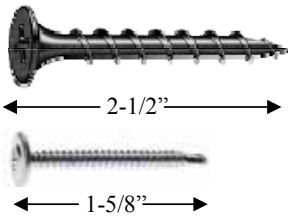
Drywall Furring Channel: (AKA "Hat Track")

- **Requirements:** 25 gauge, hemmed edge detail required on all 25 gauge furring channel. Meets or exceeds SSMA requirements.
- **Depth:** 7/8 inch
- **Width Bottom:** 2-1/2 inch wide minimum.
- **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.

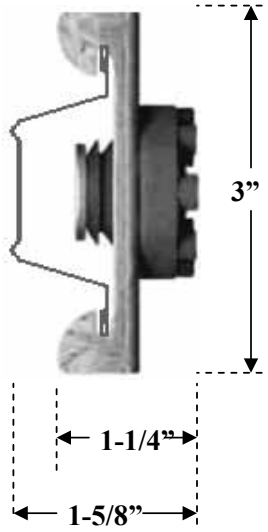
Resilient Sound Isolation Clip (RSIC-1)

- **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" or longer fine thread screw)
- 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

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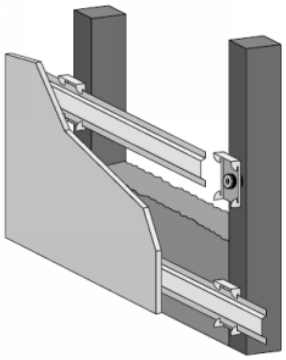
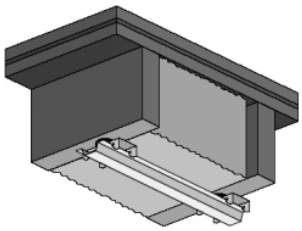


WALLS: One and Two Layers of 5/8" Gypsum Board

- 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

- Resilient Sound Isolation Clips (RSIC-1) shall be 48 inches maximum on center.
- 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 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:

- Resilient Sound Isolation Clip (RSIC-1), furring channel (hat track) and gypsum board shall not carry heavy loads such as cabinets or bookshelves.
- For focused loads add RSIC-1 Backer clip.
- 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).

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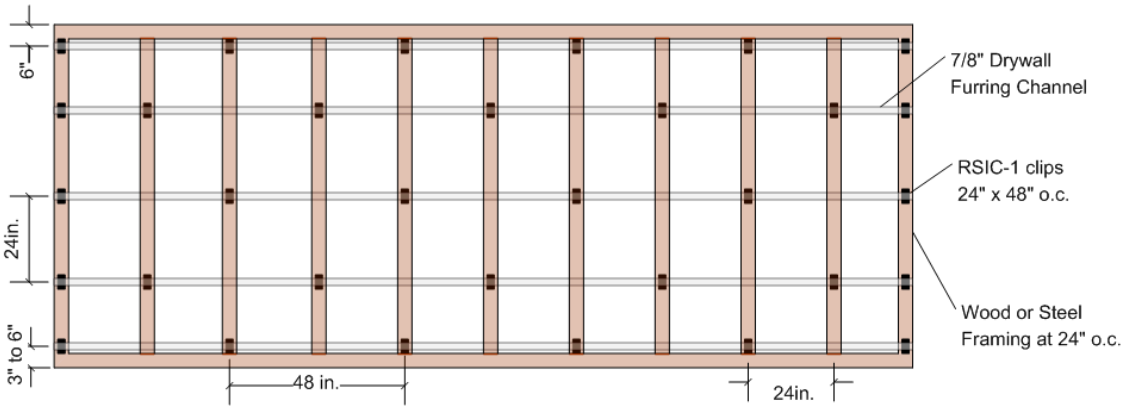
APPLICATION RECOMMENDATIONS FOR WALLS AND CEILINGS, WOOD OR STEEL FRAMING

INSTALLING RESILIENT SOUND ISOLATION CLIPS (RSIC-1)

RSIC CLIPS AT 24” OC. 1 or 2 Layers of Gyp Board

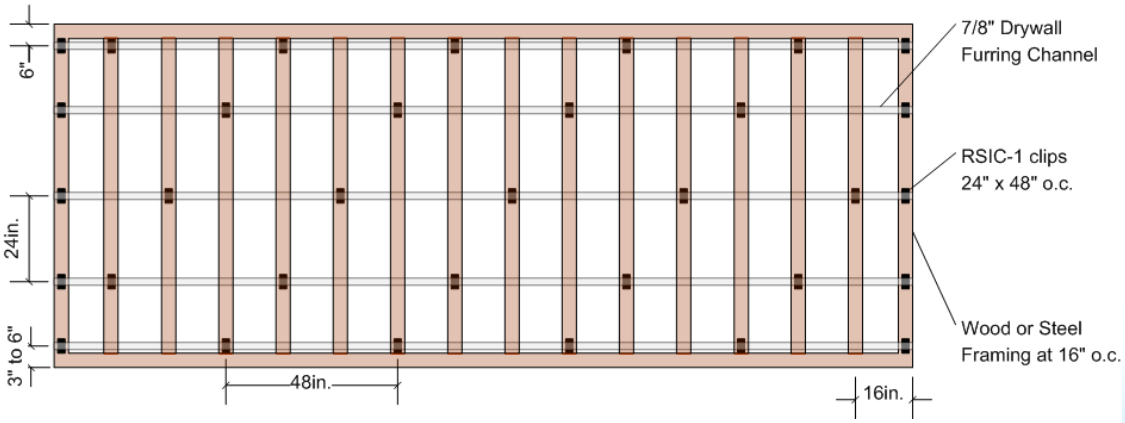
RSIC-1 Wall or Ceiling System Framing at 24" o.c.

RSIC-1 clips at 24" x 48" o.c. 1 or 2 Layers of 5/8" Gypsum Board



RSIC-1 Wall or Ceiling System Framing at 16" o.c.

RSIC-1 clips at 24" x 48" o.c. 1 or 2 Layers of 5/8" Gypsum Board



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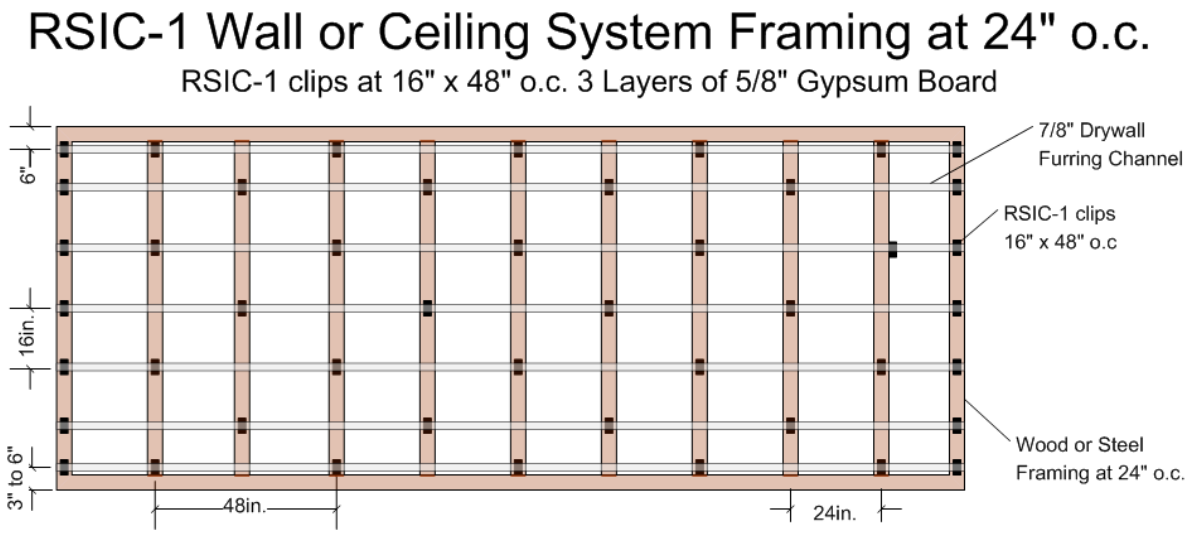
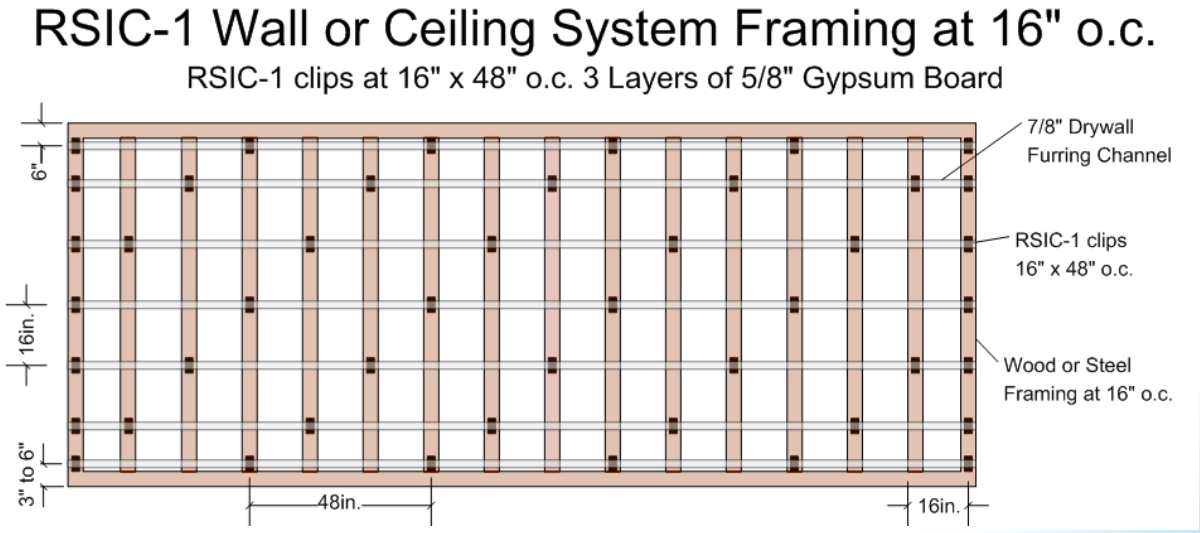
APPLICATION RECOMMENDATIONS FOR WALLS AND CEILINGS, WOOD OR STEEL FRAMING

INSTALLING RESILIENT SOUND ISOLATION CLIPS (RSIC-1)

RSIC CLIPS AT 16” OC. 3 Layers of 5/8” Gyp Board





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