

# RSIC-1-INSTALLATION GUIDE

## RSIC-1 SOUND ISOLATION CLIP



# RSIC-1



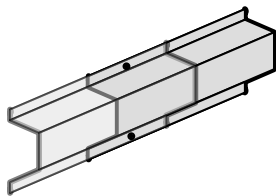
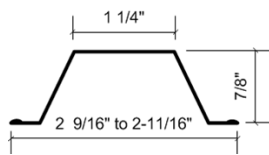
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### Drywall Furring Channel:

- **Minimum Requirements:** 0.0018" (18 mil) thick 25 gauge, hemmed edge detail required on all 25 gauge furring channel. Meets or exceeds SFIA and SSMA requirements.
- **Depth:** 7/8 inch
- **Width Bottom:** 2-9/16" to 2-11/16" inch wide nominal.
- **Width Top:** 1-1/4 inch wide
- **Max spacing:** 24 inches oc.

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.

### Drywall Furring Channel Overlap:

- Overlap drywall furring channel mid span in between RSIC clips and fasten together with 2 Steel framing screws

### Resilient Sound Isolation Clip (RSIC-1)

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



### 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

### Fasteners:

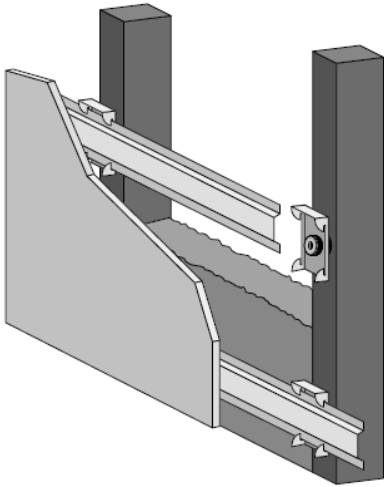
- **RSIC-1 to Wood:** #8 x 2-1/2 inch minimum size coarse thread screw. (Recommended #12 or #10 x 2-1/2 inch hex head)
- **RSIC-1 to Steel:** # 8 x 1-5/8 inch minimum size fine thread screw. (Recommended #12 or #10 x 1-5/8 inch hex head)
- DO NOT fasten Resilient Sound Isolation Clips (RSIC-1) to framing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

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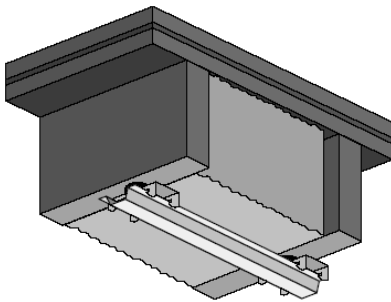
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## RSIC-1 SOUND ISOLATION CLIP



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

- Resilient Sound Isolation Clips (RSIC-1) shall be 48 x 24 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 shear 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) Channel max spacing 24 inches oc.
- 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 x 24 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 shear 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. Channel max spacing 24 inches oc.
- 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](http://www.UL.com), or [www.pac-intl.com](http://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, bookshelves, dropped ceilings, light fixtures, speakers, televisions, headboards, or floating vanities.
- 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 our website for the latest updates of the fire testing approvals

[WWW.PAC-INTL.COM](http://WWW.PAC-INTL.COM)

Check UL Fire Resistance Directory File # R16638

Check UL's web pages. [www.ul.com/database](http://www.ul.com/database)

Contact UL (877) UL- HELPS

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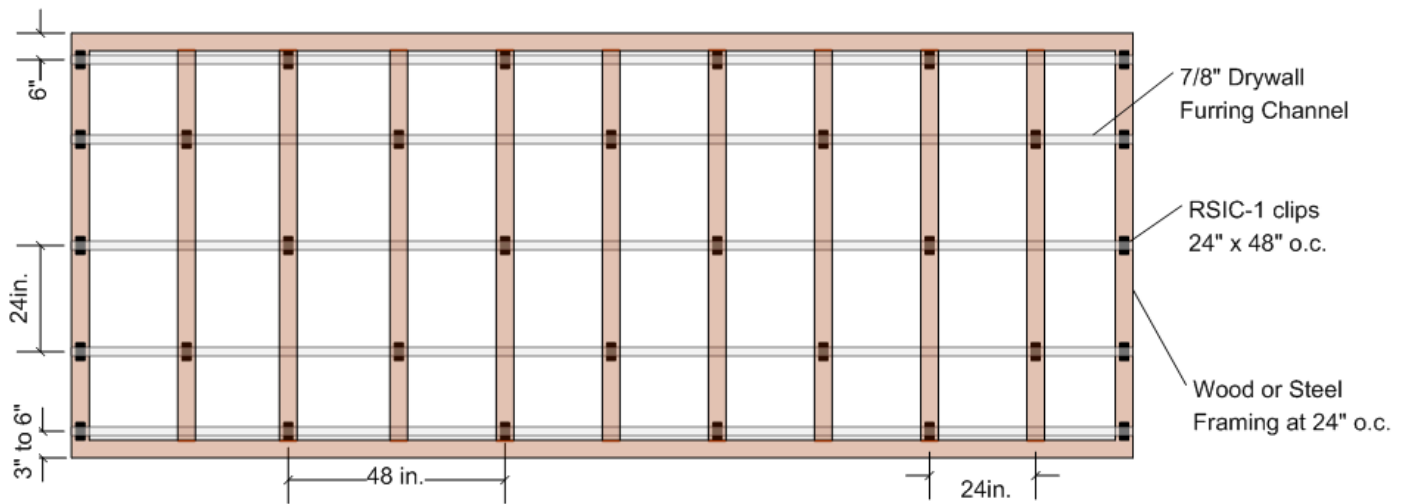
APPLICATION RECOMMENDATIONS FOR WALLS AND  
CEILINGS, WOOD OR STEEL FRAMING

INSTALLING RESILIENT SOUND ISOLATION CLIPS (RSIC-1)

### RSIC CLIPS AT 24" OC.

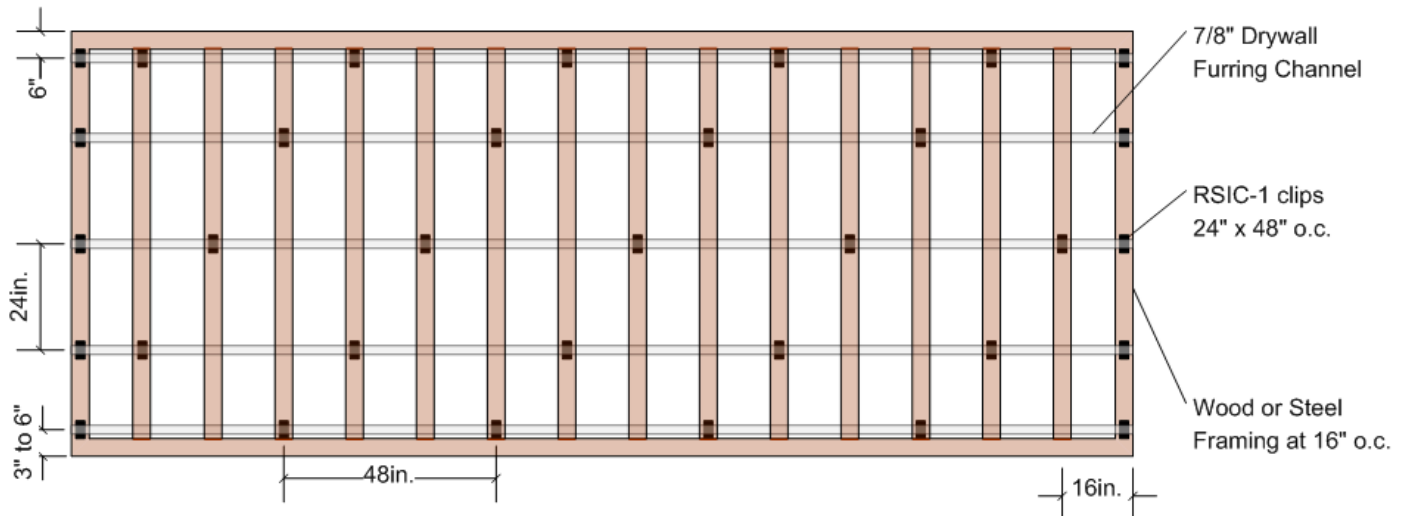
#### RSIC-1 Wall or Ceiling System Framing at 24" o.c.

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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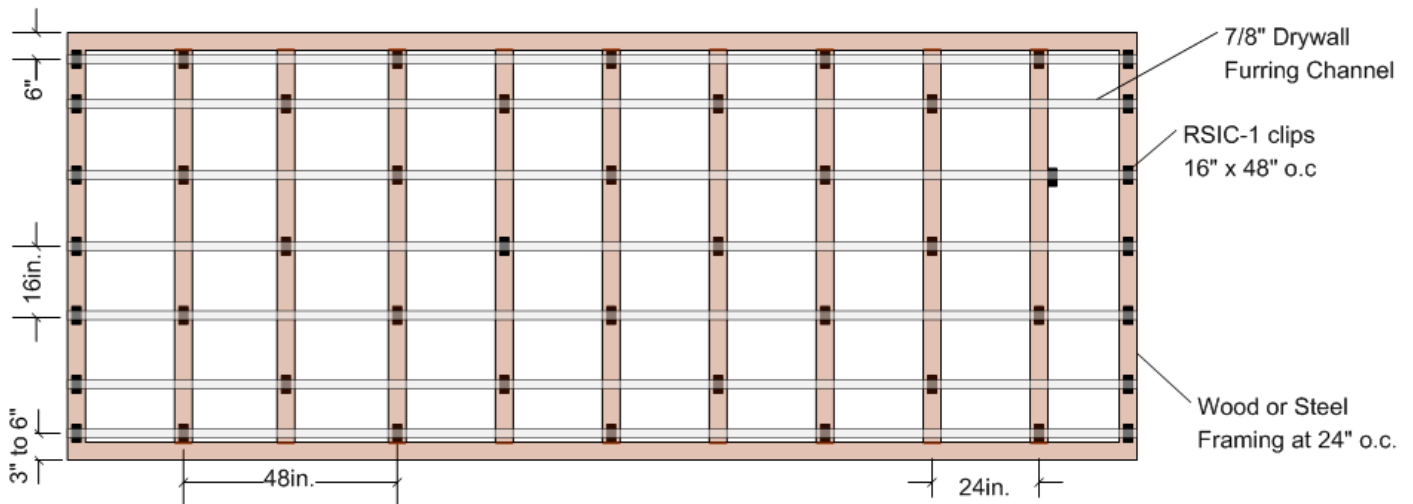
APPLICATION RECOMMENDATIONS FOR WALLS AND  
CEILINGS, WOOD OR STEEL FRAMING

INSTALLING RESILIENT SOUND ISOLATION CLIPS (RSIC-1)

### RSIC CLIPS AT 16" OC.

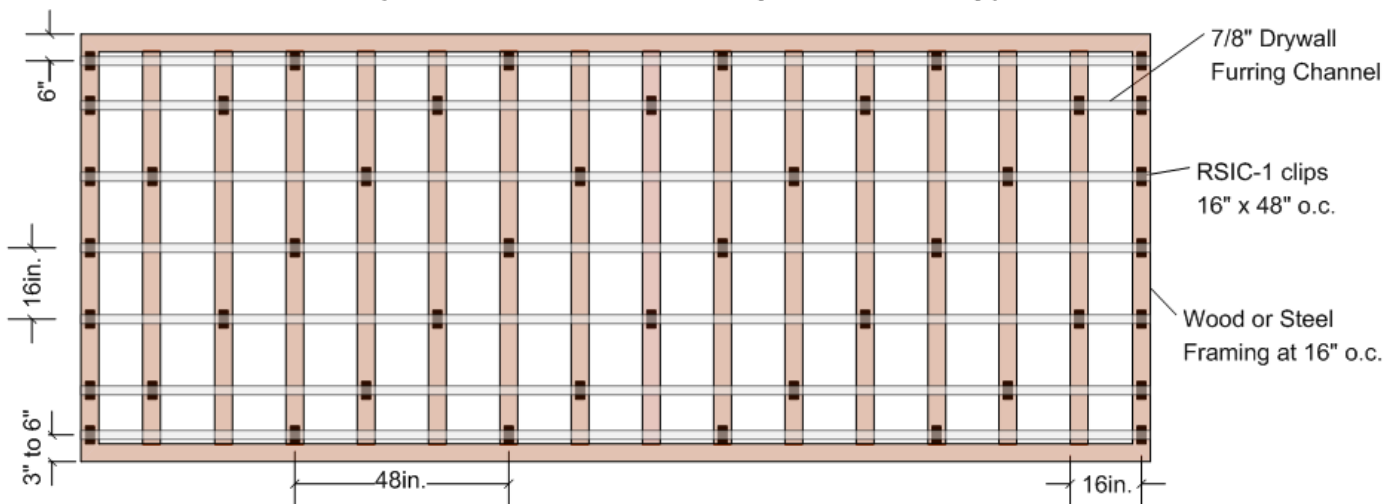
#### RSIC-1 Wall or Ceiling System Framing at 24" o.c.

RSIC-1 clips at 16" x 48" o.c. 3 Layers of 5/8" Gypsum Board



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

RSIC-1 clips at 16" x 48" o.c. 3 Layers of 5/8" Gypsum Board



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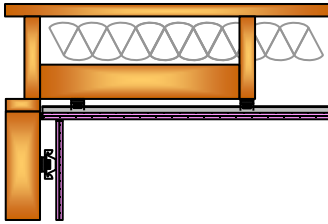
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APPLICATION RECOMMENDATIONS FOR WALLS AND  
CEILINGS, WOOD OR STEEL FRAMING

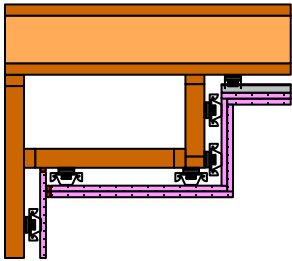
INSTALLING RESILIENT SOUND ISOLATION CLIPS (RSIC-1)

### RSIC CLIPS ADDITIONAL DETAILS



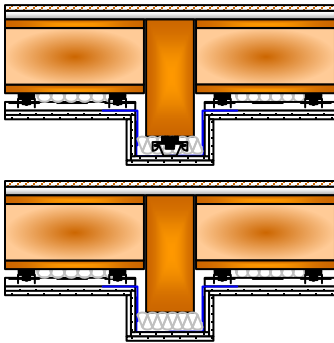
**RSIC-1 clip Added blocking when there is not a joist within 6" of the end of the ceiling.**

- Add min 2 x 4 blocking that travels from joist to head of wall, or joist to joist to support RSIC-1 clips within 6" of the end of the ceiling.



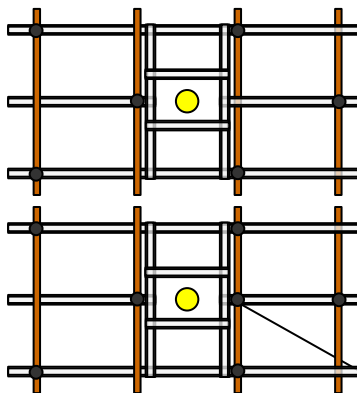
**RSIC clip Soffit installation:**

- Soffits should be hard framed and RSIC clips installed to the outside of the soffit frame to support the gypsum board.



**RSIC clip Beam installation:**

- Beams can be floated with 90 deg. angle or supported with a single run of RSIC clips and channel at the lowest point.



**RSIC clip Transition or interruption installation:**

- The furring channel may be interrupted by HVAC, Light Fixtures, Sprinkler heads, or other items that need to penetrate the ceiling.
- The furring channel may be trimmed to allow this interruption when stringbacks are placed perpendicular to the main runs of channel and are supported by the adjacent furring channel runs, and the interruption is box framed using drywall furring channel.
- Additional RSIC-1 clips may be added to support the additional weight of a light box or light fixture. Add one RSIC-1 clip for every 36 lbs added to the ceiling at those location

Optional RSIC-1 clip added to support the end of the channel

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**RSIC-1 Clip UL Assemblies approved for use.**

CIKV.R16638

Types RSIC-1 and RSIC-1 (2.75) for use in Design Nos. G501, G502, G503, G504, G505, G507, G510, G512, G524, G525, G534, G551, G552, G561, G565, G578, G552, G565, L502, L505, L510, L511, L513, L514, L516, L518, L521, L523, L528, L532, L534, L542, L546, L547, L550, L562, L563, L569, L570, L573, L574, L576, L579, L582, L587, L589, L590, L593, M501, M502, M506, M508, M509, M510, M514, M531, P519, P522, P538, P545, P556, P571, U301, U305, U309, U311, U320, U331, U334, U340, U341, U342, U344, U356, U411, U415, U417, U419, U421, U423, U440, U451, U453, U455, U465, U473, U493, U524, U910, U914, V310, V323, V324, V438, V455, V469, V478, V481, V488, V489, V490, V496, V498, W419, W425, W440, W445.

Type RSIC-1 also Classified in accordance with ASTM E90-99, "Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements". See Design Nos. G505, U305, U334, V310, for STC rating.

Type RSIC-1 also Classified in accordance with ASTM E492-96, "Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine". See Design No. G505 for IIC rating.

Types RSIC-1 and/or RSIC-1 (2.75) for use in Joint System Nos. HW-D-0060, HW-D-1011.

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The RSIC-1 is the first and only product classified by UL for both fire and sound.

Members of the International Code Council

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