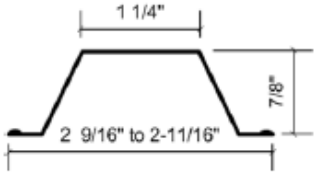
RSIC-SI-CRC SOUND ISOLATION CLIP INSTALLATION

Trademark SOUNDPROOFING

Drywall Furring Channel:

- **Furring Channel:** 25 gauge hemmed edge, or 20 gauge standard. Meets or exceeds 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



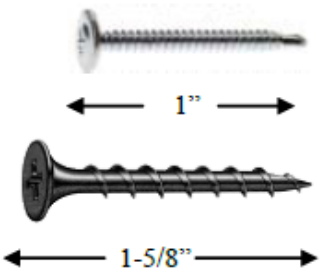
Splice drywall furring channel (hat track) with 6 inch overlap in mid span (between two clips) secure with 18 ga tie wire, or two 7/16" framing screws.

Carrier Channel Options:

- **48" spacing 16 Gauge Cold Rolled Channel (CRC)**
  Dim: 1/2" x 1.5" x 1/2" SSMA code: 150U050-54

- CRC and Steel Studs must meet or exceed SSMA standards

Fasteners:



- **RSIC-SI-CRC to Wood:** #8 x 1-5/8 inch minimum size coarse thread screw. (Recommended #12 or #10 x 1-5/8 inch hex head)
- **RSIC-SI-CRC to Steel:** # 8 x 1inch minimum size fine thread screw. (Recommended #12 or #10 x 1inch hex head)
- **1.5" x 16 Gauge Cold Rolled Channel (CRC) 1/2" x 1.5"**
  Use min 9/16" self drilling framing screws to fasten the 1.5" CRC channel RSIC-SI-CRC
- CRC and Steel Studs must meet or exceed SSMA standards

*160 Lb
*80 Lb
40 Lb
30 Lb
20 Lb
10 Lb
5 Lb

* Heavy Duty RSIC-DC04

RSIC-SI-CRC Spring Isolator

- **Maximum Spacing:** 48" oc. with Cold Rolled Channel
- **Finish elevation is 1/2" below preset height.**

- ***Black = 160 Lbs (HD/DD)**
- ***Silver = 80 Lbs (HD/DD)**
- **Red = 40 Lbs**
- **Green = 30 Lbs**
- **Blue = 20 Lbs**
- **White = 10 Lbs**
- **Yellow = 5 Lbs**

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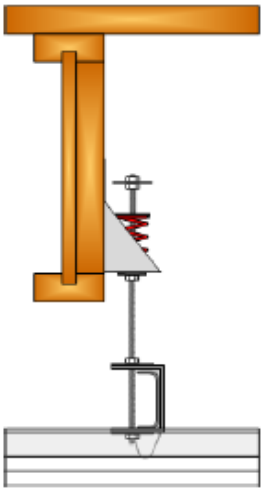

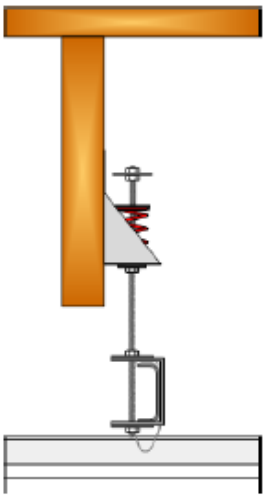

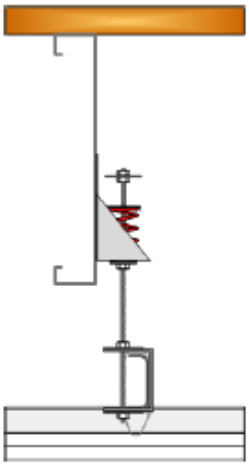

Ceilings: RSIC-SI-CRC clips installed 48" oc

- Resilient Sound Isolation Clips (RSIC-SI-CRC) shall be max 48 inches on center .
- Layout the RSIC-SI-CRC clips according to general guidelines represented in this installation manual.
- Any additional or non standard room dimensions need to be addressed by a professional engineer.
- Carefully remove RSIC-SI-CRC pre-assembled, and pre-calibrated clips from packaging.
- Be cautious to not rotate the RSIC-SI-CRC clips separate from the Upper bracket. This may change the factory calibration of RSIC-SI-CRC.
- Verify the correct quantity of each RSIC-SI-CRC isolator (weight / color) is included in the shipment.
- Layout the RSIC-SI-CRC clips out on the floor (reflecting the ceiling above) Ensure there are no additional items required to complete the installation, IE: Additional blocking to support the RSIC-SI-CRC clips, or additional clips to support the drywall furring channel.
- Fasten the Resilient Sound Isolation Clip (RSIC-SI-CRC) to the structure with fasteners approved for a minimum pull-out and sheer of 200 lbs. Allowing for 1/2" deflection after the gypsum board has been installed.
- Using a laser level, or tape measure set the height for all of the RSIC-SI-CRC brackets at the same height
- At the perimeter, the distance between the wall and first support for the drywall shall be less than 8"
- Insert the 16 Ga cold rolled channel to the RSIC-SI-CRC clip
- Tighten the Nylock nut on the bottom of the CRC clip, Hold the threaded section of the rod not allowing it to rotate while you tighten the Nylock nut.
- Wire tie the drywall furring channel to the cold rolled channel @ 24" oc or 16" oc. (24" oc for 1 or 2 layers of gyp board, 16" oc for 3 layers of gyp board)
- Optional, Field Calibrate each isolator based on the weight they will be holding. Variances in the field may require additional adjustment to ensure a consistent system. (see field calibration guide on page 5)

- Black 160 Lb field clips
- Silver 80 Lb field clips
- Red 40 Lb field and perimeter clips
- Green 30 Lb field and perimeter clips
- Blue 20 Lb field, perimeter and edge clips
- White 10 Lb edge, corner, and or infill clips
- Yellow 5 edge or corner clips

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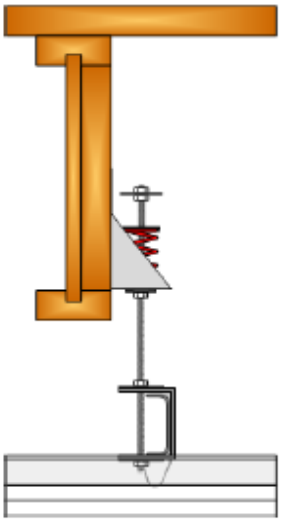

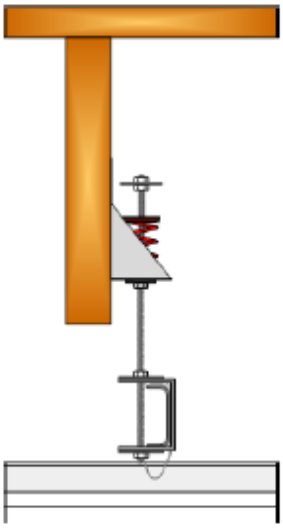

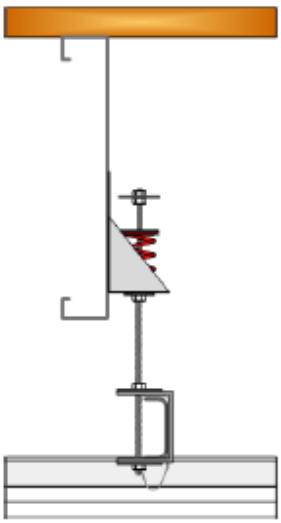

Calibration and Adjustment:

- To field adjust the RSIC-SI-CRC clip, rotate the Screw attaching the RSIC-SI-CRC clip to the spring. Clockwise to raise. In converse rotate the screw counter clockwise to lower. Lowering the RSIC-1 clip will not loosen the spring. To adjust the spring itself you will need to hold the top Cup washer and turn the threaded rod from the top side.
- The Pre-Calibration of the RSIC-SI-CRC clip is designed to deflect only 1/2" from its pre-loaded (pre-set) position after the 2nd layer gypsum board has been installed.

Ceilings:

- IF required add strong back consisting of 1.5" Cold Rolled Channel or 2 pieces of drywall furring channel nested together, on the top side of the standard drywall furring channel to assist in leveling the ceiling at or near the perimeter. The strong back shall be placed perpendicular to the main drywall furring channels
- Install the gypsum board to the drywall furring channel leaving a 1/8" to 1/4" gap around the perimeter of the entire ceiling.
- Caulk around the entire perimeter of the ceiling wall intersection.
- Use fire and smoke rated acoustical sealant where required.
- The RSIC-1 SI is engineered for use with a minimum of 2 layers of 5/8" gypsum board.
- * RSIC OHD Adapter used for attaching directly to Concrete

General Information:

- Resilient Sound Isolation Clip Spring Isolator (RSIC-SI-CRC), furring channel (hat track) and gypsum board shall not carry heavy loads such as Projectors, HVAC Ducting, Curtains, etc. For these items use additional RSIC isolation clips specifically designed for that purpose.
- 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-SI-CRC clips to a steel Joist the minimum allowable thickness is 20 ga. (0.030).

Fire Test Information:

WWW.PAC-INTL.COM

Check UL Fire Resistance Directory File # R16638

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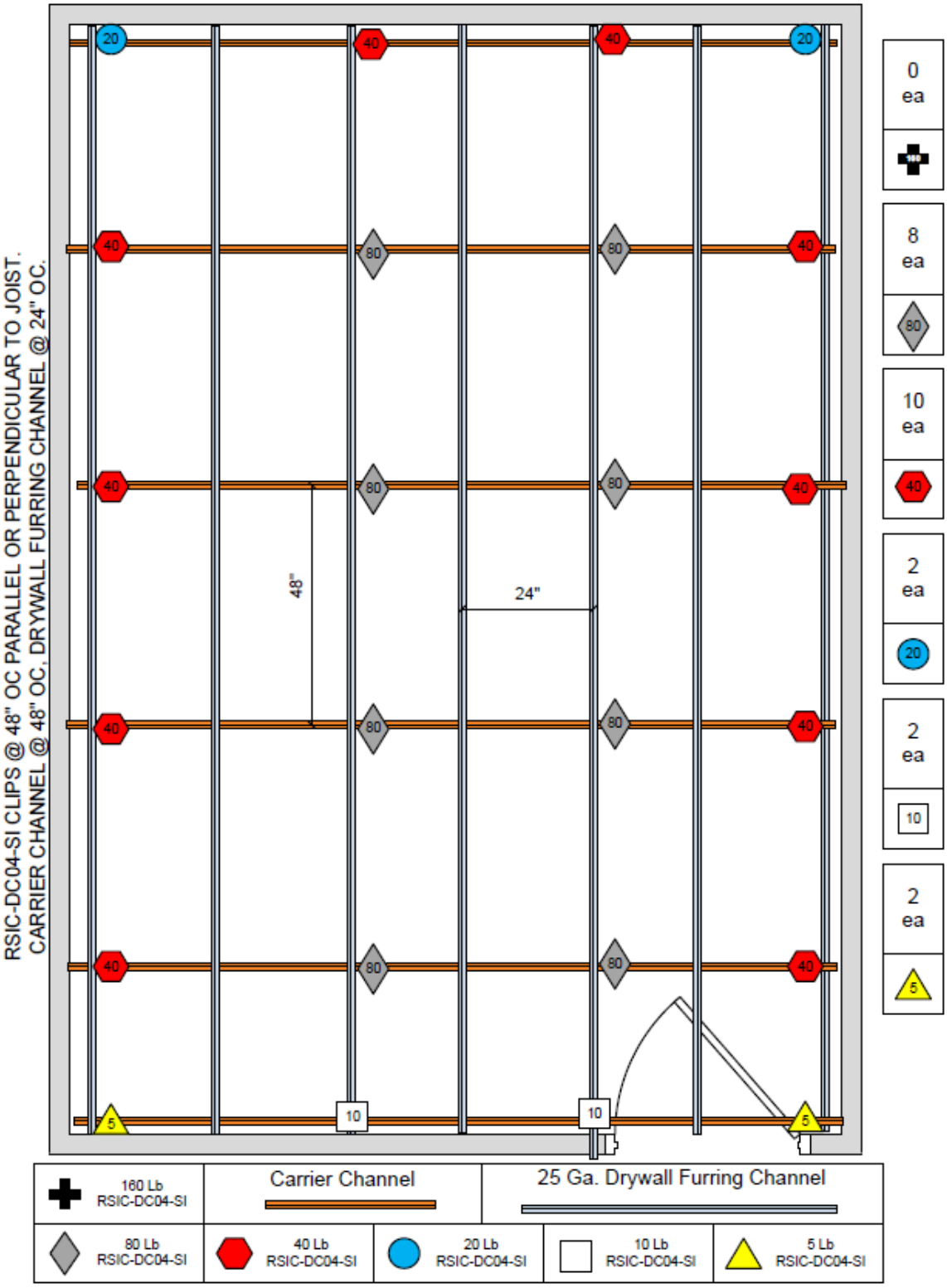
Sample layout 48” oc.