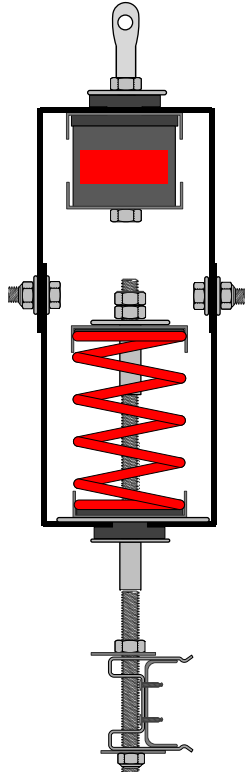


# *INSTALLATION GUIDE*

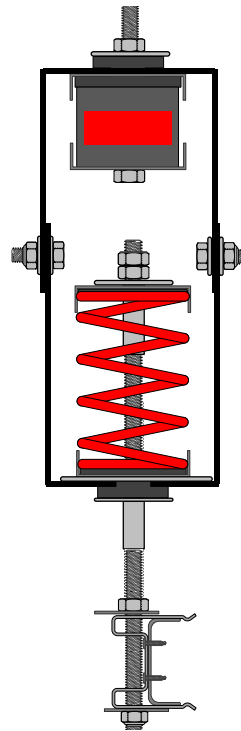
## **RSIC-SI-FF SPRING ISOLATOR**

# **RSIC-SI-FF Ez**

**RSIC-SI-FF WRC**



**RSIC-SI-FF BRC**

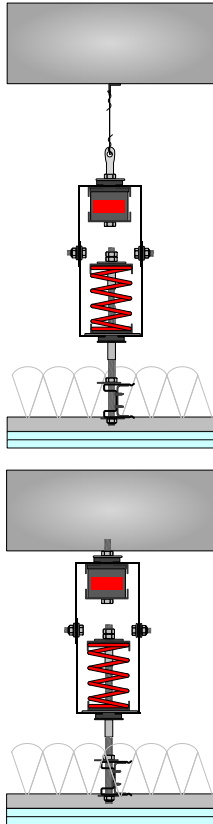


**SHIPPED FULLY  
ASSEMBLED  
AND CALIBRATED**

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# RSIC-SI-FF SOUND ISOLATION CLIP



## Fasteners: (By Others)

- **RSIC-SI-FF to Concrete:** Hanger wire, pencil rod, Drop in anchor, eye bolt, or direct mount.

## RSIC-SI-FF WRC

- **RSIC-SI-FF WRC** is a Wire hung spring and Rubber isolation system that holds CRC channel for CRC and Hat channel ceiling framed systems.

## RSIC-SI-FF BRC

- **RSIC-SI-FF BRC** is a direct mount spring and Rubber isolation system that holds CRC channel for CRC and Hat channel ceiling framed systems.

## RSIC-SI-FF Spring Isolator

*80 Lb
40 Lb
30 Lb
20 Lb
10 Lb

- **Maximum Spacing:** 48" oc. with DW grid or Cold Rolled Channel. Designed for 2 layers of 5/8" gypsum board.
- **Silver = 80 Lbs with Red Rubber Isolator**
- **Red = 40 Lbs with Green Rubber Isolator**
- **Green = 30 Lbs with Brown Rubber Isolator**
- **Blue = 20 Lbs with Blue Rubber Isolator**
- **White = 10 Lbs with Blue Rubber Isolator**

## General Information:

- Resilient Sound Isolation Clip Spring Isolator (RSIC-SI-FF), CRC channel, 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 products specifically designed for that purpose.
- Seal all potential air leaks with non-hardening acoustical caulking to achieve best noise control results. Use fire rated sealant where required.

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# RSIC-SI-FF 48" INSTALLATION

## Ceilings: RSIC-SI-FF Ez clips installed 48" oc

- Resilient Sound Isolation Clips (RSIC-SI-FF) shall be max 48 inches on center .
- Layout the RSIC-SI-FF clips according to general guidelines represented in this installation manual. Or follow the layout provided by the manufacturer.
- Any additional or non standard room dimensions need to be addressed by a professional engineer.
- Carefully remove RSIC-SI-FF pre-assembled, and pre-calibrated clips from packaging.
- Be cautious to not rotate the RSIC-SI-FF clips separate from the bracket. This may change the factory calibration of RSIC-SI-FF.
- Verify the correct quantity of each RSIC-SI-FF isolator (weight / color) is included in the shipment.
- Layout the RSIC-SI-FF clips 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-FF clips, or additional clips to support the ceiling system.
- Fasten the Resilient Sound Isolation Clip (RSIC-SI-FF) to the structure with fasteners approved for use on your project in your local jurisdiction. Verify load and shear values.
- Using a laser level, or tape measure set the height for all of the RSIC-SI-FF brackets at the same height. Allow nom. 5/8" for the ceiling to settle when gypsum board is installed.
- At the perimeter, the distance between the wall and first support for the drywall shall be less than 8" unless wall angle is used.
- Snap the CRC channel into the Ez clip at the bottom of the RSIC-SI-FF and screw the CRC channel to the Ez clip.
- 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)

## CRC and hat channel:

- 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 CRC to assist in leveling the ceiling at or near the perimeter.
- The strong back shall be placed perpendicular to the CRC 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-SI-FF is engineered for use with 2 layers of 5/8" fire code C gypsum board.

## Calibration and Adjustment:

- To field adjust the RSIC-SI-FF clip, rotate the center screw attaching the RSIC-SI-FF clip to the spring. Clockwise to raise. In converse rotate the screw counter clockwise to lower.
- The Pre-Calibration of the RSIC-SI-FF clip is designed to deflect only 5/8" from its pre-loaded (pre-set) position after the 2nd layer gypsum board has been installed.

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# RSIC-SI-FF SOUND ISOLATION CLIP

## IMPORTANT! PLEASE READ FIRST:

These suggested installation guidelines represent generally accepted procedures for successful installation of PAC International, LLC RSIC-SI-FF-WRC and RSIC-SI-FF-BRC Suspended Ceiling Spring Hanger isolation system. These suggestions may be followed, modified, or rejected by the owner, engineer, contractor, and/or their respective representative(s) since they, not PAC International, LLC, are responsible for planning and executing procedures appropriate to a specific application. PAC International, LLC reserves the right to alter these suggestions and encourages contact with the factory or its representatives to review any possible modification to these suggested guidelines prior to commencing installation.

1. Installation of an isolated spring hung ceiling system that uses PAC International, LLC RSIC-SI-FF-WRW and RSIC-SI-FF-WRC Suspended Ceiling Spring Hangers requires following materials (as specified by others and purchased separately):

1-1/2" x 1/2", 16-gauge cold-rolled channel.

7/8" 20- to 25-gauge drywall furring channel

Appropriate wire (per local code) Minimum: 12 gauge Annealed Galvanized

Anchors for mounting wire into non-isolated structural overhead support or substrate.

1/2" or 5/8" thick gypsum board.

Acoustical Caulking, Non-Hardening, Fire and Smoke Rated as required by local codes.

Appropriate tools and equipment for installation.

Please note: If submittal drawings have been prepared for the installation, review drawings for completeness and accuracy; otherwise, refer to Selection Guidelines for selecting ceiling hangers.

2. Mark grid pattern on existing non-isolated ceiling using the following criteria:

A. Isolators installed at the perimeter must be located not more than 8" from the edge of the isolated ceiling; maintain at least a three-inch clearance from the perimeter.

B. Isolators mounted mid-room (i.e., those isolators not at the perimeter) may be located up to 48" on center each way (o.c.e.w.); mid-room isolators should be spaced evenly in each direction.

Please note: Submittal drawings, if provided, override general location guidelines provided above.

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# RSIC-SI-FF SOUND ISOLATION CLIP

3. Remove RSIC-SI-FF-WRW from the box/package. Confirm capacity of each isolator to ensure proper location in grid (See chart below). If provided, submittal drawings will identify location of specific hanger by capacity rating. After determining the direction the cold-roll channel will run (orientation is not important acoustically), locate the wire at the intersect points on the grid. Anchor wire to non-isolated ceiling using appropriate fastener and tie the wire through the eye nut that goes through the rubber element. Tie wire to cold-rolled channel to the other (bottom) eye nut. Position the cold-rolled channel to prevent contact at partition/wall/column or any other non-isolated structural component. Inter-connect ends of cold-rolled channel using appropriate practices for ceiling grid installation.

RSIC-SI-FF-WRW	Color Capacity	Range (lbs.)	Deflection Range (1nch)
10	White	5~10	0.50~1.00
20	Blue	10~20	0.50~1.00
30	Green	20~30	0.50~1.00
40	Red	30~40	0.50~1.00
80	Silver	40~80	0.50~1.00

4. Attach drywall furring channel to cold-rolled steel and inter-connect the ends of the furring channel using appropriate practices for ceiling grid installation. Furring channel cannot contact non-isolated structural components.

5. After assembling the ceiling grid, check for levelness. By loosening or tightening the hanger wire to adjusted the level.

6. Install Model RSIC Perimeter Isolation Tape at partitions/walls, columns, and around any non-isolated building components to create a 1/4" wide resilient layer that ensures the isolated ceiling remains decoupled from the non-isolated structure. As the gypsum board is attached to the grid, the springs will compress (1/2" to 1" nominally depending on spring capacity) allowing the ceiling system to lower into final position.

Position the Model RSIC Perimeter Isolation Tape to account for this change to final elevation.

Trimming the Model RSIC Perimeter Isolation Tape may be required following installation of the gypsum board. If an alternate method for ensuring that the isolated ceiling remains decoupled is employed (e.g., using Resilient Sound Isolation Clip RSIC-DC-04), be sure to maintain a 1/4" gap from non-isolated structural components.

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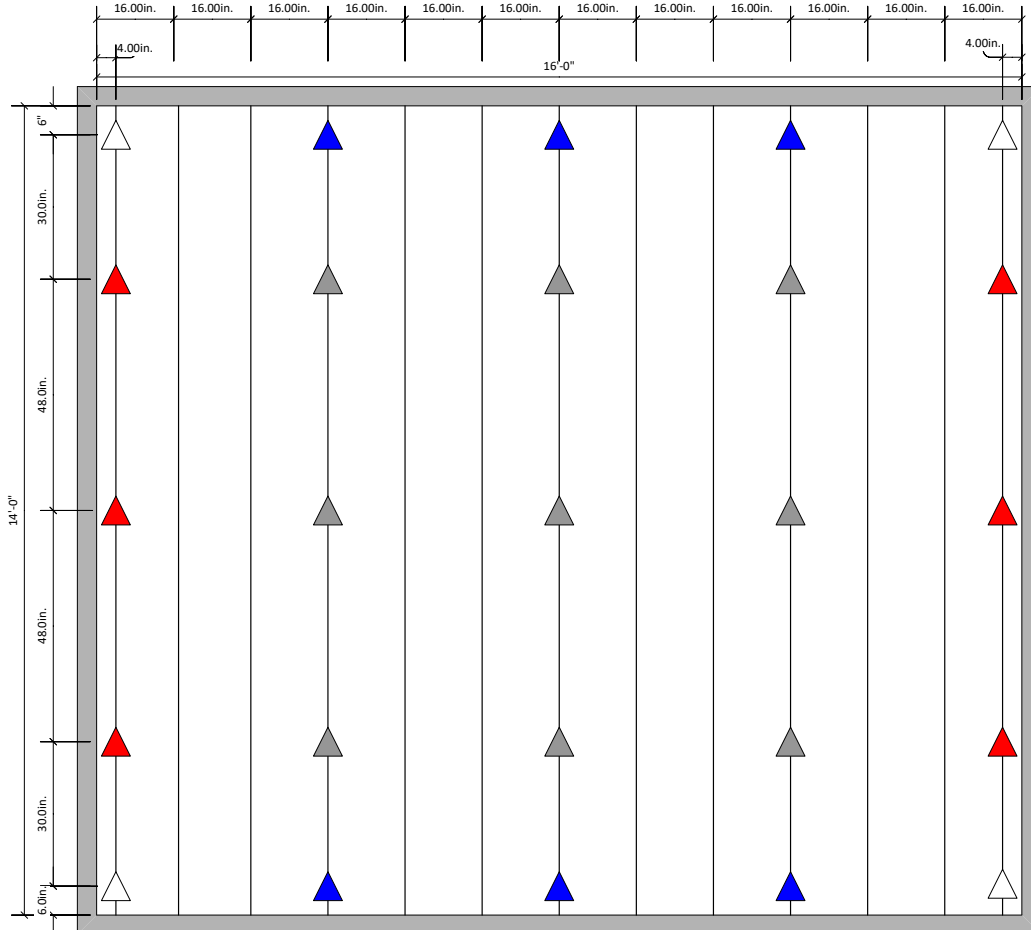
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7. Install the gypsum board using accepted practices for attaching to the grid system. Be certain to maintain a 1/4" gap between non-isolated structural components and the isolated ceiling to ensure that the gypsum board does not contact any non-isolated structural components. Do not allow gypsum board to rest on top edge of Model RSIC Perimeter Tape; it should abut the perimeter isolation tape. Do not allow the Model RSIC Perimeter Tape to become compressed against the non-isolated structure. In some cases, additional adjustment of the gypsum board may be necessary to achieve levelness, consult factory for procedures.

8. Trim Model RSIC Perimeter Tape as required and caulk gap using a resilient, non-hardening caulk.

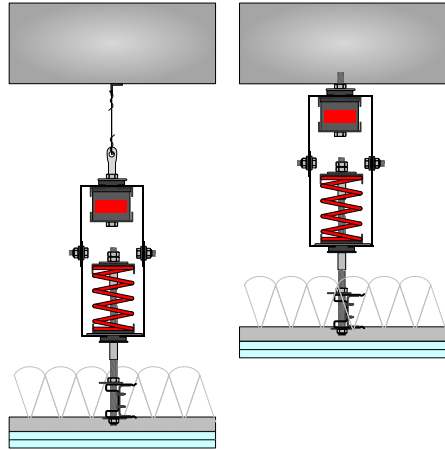
## Sample layout 48" oc.



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# RSIC-SI-FF SOUND ISOLATION CLIP



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