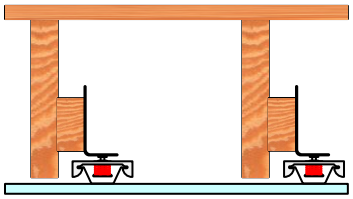
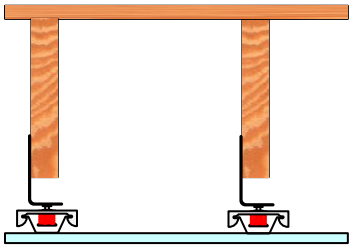
PAC International NOISE CONTROL SOLUTIONS

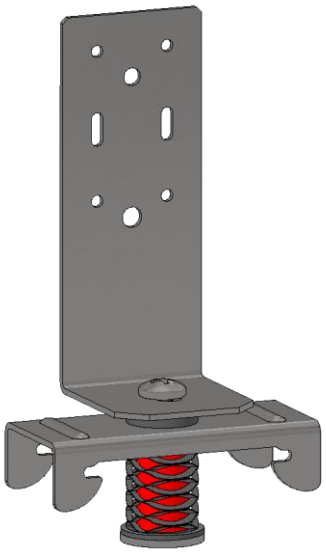
RSIC-SI-X EXT04



Low Profile Installation



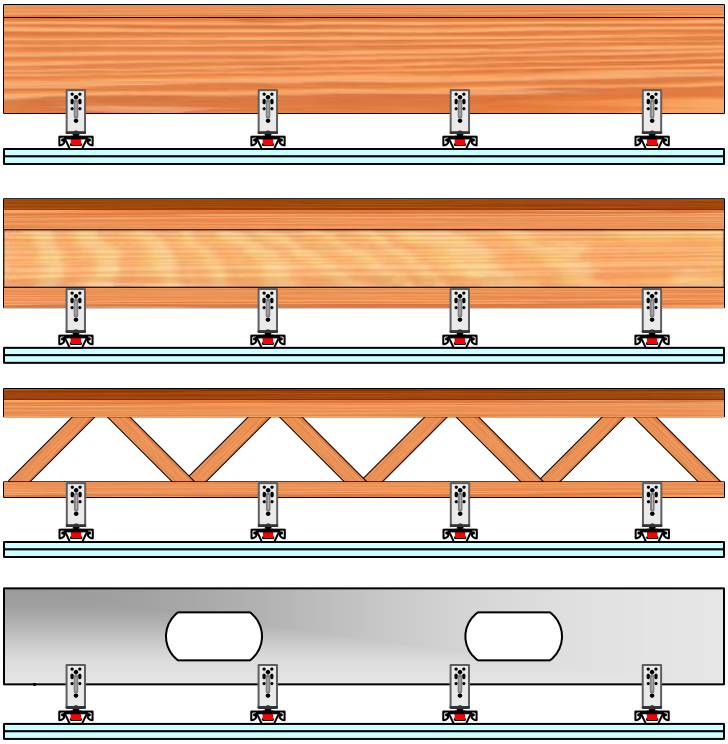
Dropped Ceiling Installation



The RSIC-SI-X EXT04 is designed for use where an additional drop for HVAC, Plumbing, or Electrical Chases is needed. This clip gives you the flexibility to drop a ceiling as much as 4” from its original height. The RSIC-SI-X EXT04 is also used to level out uneven floor joists. This clip has proven to be very popular with the Home Theater industry. It creates a dropped ceiling, allowing an open chase for the new wires, all while retaining the superior acoustical performance of the RSIC clips.

RSIC-SI-X EXT04, the High Performance, Noise control Solution

Concrete	Apartment	Recording Studio
Condo	Retail	Home Theater
Commercial	Conference Rooms	Commercial theater



RSIC-SI-X EXT04 specifications:	
Acoustical design load:	7 - 26 Lbs
Total deflection	3/8"
Minimum Cavity Depth	1/2”
Cavity Max	4"
Adjustment limit	3-1/2”
Use in Ceilings	Yes
Use in New Construction	Yes
Use in Retrofit	No
Spring Isolation	Yes
Rubber Isolation	Yes
Pre-Calibrated	Yes
Pre-Assembled	Yes
Made, Tested, Engineered, Designed, and Calibrated In USA	

1. Product Name

- RSIC-SI-X EXT04 Resilient Sound Clip
  - RSIC-SI-X EXT04 Resilient Sound Isolation Spring Clip

2. Manufacturer

PAC International, LLC
7260 W Azure Dr
Suite 140-213
Las Vegas, NV 89130
Phone: (866) 774-2100
Fax: (866) 649-2710
Email: **info@pac-intl.com**
Web: **www.PACInternationalLLC.com**

3. Product Description

RSIC-SI-X EXT04

The RSIC-SI-X EXT04 is designed for use with a ceiling system where noise control is needed. The RSIC-SI-X EXT04 assembly decouples and isolates the gypsum board or other sheet goods from the structure increasing the acoustical performance of the system.
The RSIC-SI-X EXT04 stops the noise and vibrations that typically would be allowed to transfer through the structure.

Materials and Composition

The RSIC-SI-X EXT04 spring and rubber isolator are made of rubber and/or manufactured rubber compound, and steel parts.

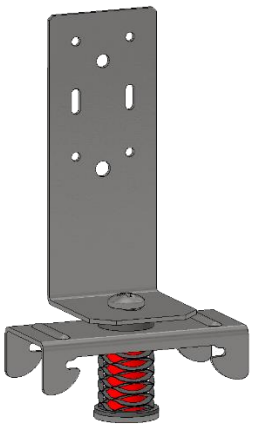
Environmental Considerations

The RSIC-SI-X EXT04 may contribute to LEEDS points, by reducing materials needed to achieve high STC and IIC floor ceiling systems.

Weight-bearing Information

With an acoustical design load rating of 26 pounds, 13 pounds and 7 pounds per isolator. The RSIC-SI-X EXT04 clip can support up to two layers of 5/8 inch gypsum board when spaced at 16” x 48” oc. For heavier systems increase the number of isolators and channel to support the additional weight of the system. The RSIC-SI-X EXT04 clip fastens directly to the underside of the structure.

RSIC-SI-X EXT04



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Product Limitations

For interior use only with operating temperatures of 40–100 degrees F (4.4–37.8 degrees C). Mac load 26 Lbs, 13 Lbs, 7 Lbs.

.

4. Technical Data

Applicable Standards

ASTM International (ASTM)

- **ASTM E90** Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- **ASTM E492** Standard Test Method for Laboratory Measurement of Impace Sound Transmission Loss of Building Partitions and Elements
- **ASTM E413** Classification for Rating Sound Insulation

Underwriters Laboratories (UL)

- **UL Fire Resistance Directory;** www.UL.com or visit here.

5. Installation

General installation: Follow manufacturer's specific installation instructions.

- Install RSIC-SI-X EXT04 Resilient Sound Isolation Spring Clip following the manufacturer recommendations
- Fasten the RSIC-SI-X EXT04 to the structure
  - For Wood framed ceilings use 2 ea #6 x 1-1/2” long coarse thread screw.

• For Steel framed ceilings use a min length #8 x 1/2” long self-drilling fine thread screw.

- Install 7/8” 25 Ga drywall furring channel (Hat Channel) into RSIC-SI-X at a maximum of 16 × 48 inches on center. 7/8” 25 GA drywall furring channel snaps into the RSIC-SI-X EXT04 bottom claw.

- Max design load of each RSIC-SI-X. 26 Lb, 13 Lb, and 7 Lb.

- Max spacing 16” x 48” oc.

- Splicing Drywall Furring Channels:
  • Splice drywall furring channels with minimum of six inch overlap.
  • Secure laps with two framing screws or 18 gauge tie wire double wrapped
  • Locate splices between resilient sound isolation clips
  • Do not locate splices on resilient sound isolation clips

- Flanking Noise:
  • Review installation details to prevent structure-borne flanking noise
  • Do not allow drywall furring channels or gypsum board to contact wall framing members

- Gypsum Board:
  • Install gypsum board in perpendicular to the Drywall Furring Channel. Leave a 1⁄4 inch (6 mm) gap around perimeter for acoustical sealant application
  • Install gypsum board in accordance with ASTM C840 as specified in Section 09250

- Acoustical Sealant:
  • Seal potential air leaks with acoustical sealant to achieve best Field Sound Transmission Class (FSTC)
  • Seal electrical outlets and penetrations with acoustical sealant • Apply fire-rated acoustical sealant at locations where fire- rated assembly is required

- Putty Pad Sealant: acoustically seal with putty pads, electrical boxes in walls and ceilings in which resilient sound isolation clips are used 6. Availability and Cost Please contact PAC International, LLC. for availability and pricing information.

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Please contact PAC International, LLC. for availability and pricing information.

7. Warranty

RSIC-SI-X clips are guaranteed free of manufacturer defects. Only remedy is the replacement of the defective component or components. Manufacturer is not liable for delays or extra costs.

8. Maintenance

No maintenance is necessary.

9. Technical Services

PAC International LLC. offers online product pages, installation guides, and specification sheets. Technical information can be found on the website, http://www.PACInternationalLLC.com or by calling 866-774-2100

Fire ratings, sound test assemblies, CAD drawings, assembly drawings and clip specifications are also on the website.

10. Filing Systems

- Additional product information is available from the manufacturer upon request

RSIC-SI-X EXT04 SOUND ISOLATION CLIP

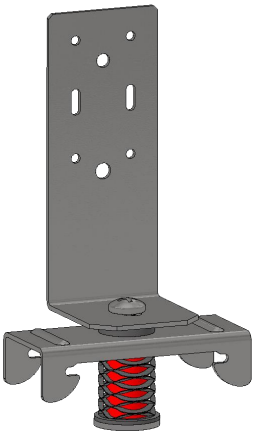
RSIC-SI-X EXT04 INSTALLATION GUIDE

RSIC-SI-X EXT04

PAC International, LLC. Tel: (866) 774-2100 Web Site: www.PacInternationalLLC.com

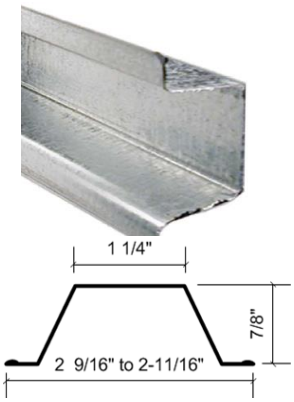
RSIC-SI-X EXT04 SOUND ISOLATION CLIP

RSIC-SI-X EXT04 INSTALLATION GUIDE



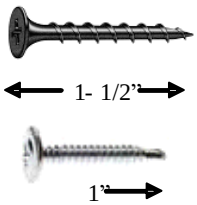
Resilient Sound Isolation Clip (RSIC-SI-X EXT04)

- Spacing: maximum 48" OC
- Maximum acoustical design load: 7 lbs, 13 lbs, and 26lbs



Furring Channel:

- Minimum requirements: 25 gauge, hemmed edge detail required on all 25 gauge furring channel. Meets or exceeds SSMA min. requirements.
- Optional: 22 Gauge (no hemmed edge required with 22 gauge)
- 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 clip) secure with 18 Ga tie wire, or two 7/16” framing screws.



Fasteners:

- RSIC-SI-X EXT04 to wood: #8 x 1-1/2 inch minimum size coarse thread screw.
- RSIC-SI-X EXT04 to Steel: # 8 x 9/16" minimum size fine thread screw.
- DO NOT fasten Resilient Sound Isolation Clips (RSIC) to framing members with nails. Use only approved screws.

26 Lb

13 Lb

7 Lb

Resilient Sound Isolation Clip (RSIC-SI-X Spring)

- **Maximum Spacing:** 48 inches on center
- **Design Load at 3/8” deflection from free height**
- **Red = 26 Lbs**
- **Blue = 13 Lbs**
- **White = 7 Lbs**

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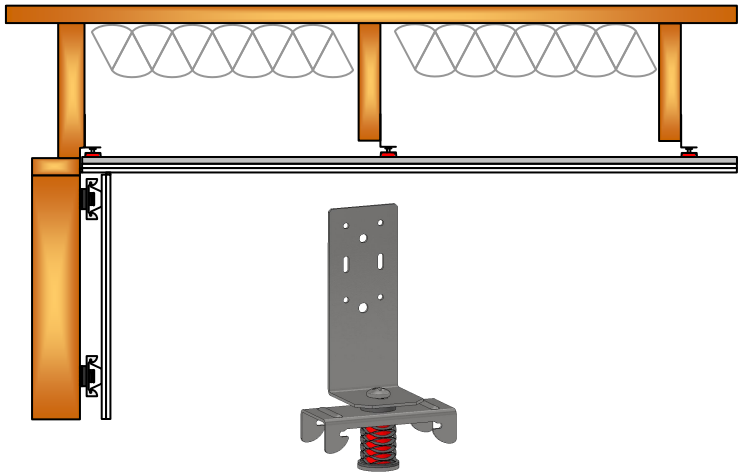


RSIC-SI-X EXT04

RSIC-SI-X EXT04 Clip with an up facing L bracket attaches to the side of the joist allowing the RSIC clip to be recessed into the joist cavity.

Ceilings:

- Resilient Sound Isolation Clips (RSIC-SI-X EXT04 Spring) maximum spacing 16” x 48” or 24" x 32" on center .
- Layout the RSIC-SI-X EXT04 Spring clips according to general guidelines represented in this installation manual.
- Any additional or non standard room dimensions need to be addressed.
- Verify the correct quantity of each RSIC-SI-X EXT04 Spring isolators (weight / color) is included in the shipment.
- Layout the RSIC-SI-X EXT04 Spring clips out on the floor (reflecting the ceiling above) Ensure there are no additional items required to complete the installation.
  - Red 26 Lb clips are for the field
  - Blue 13 Lb clips are for the field, edge.
  - White 7 Lb clips are for edge, corner, and or infill where additional support is needed
- Fasten the Resilient Sound Isolation Clip (RSIC-SI-X EXT04 Springs) to the structure with fasteners approved for a minimum pull-out and sheer of 100 lbs. Allowing for up to 3/8” deflection after the gypsum board has been installed.
- Using a laser level, or tape measure fasten all of the RSIC-SI-X EXT04 clips to the side of joist ensuring all the RSIC-SI-X EXT04 clips are in the same level. Height can only be adjusted by the position of the fasteners into the joist.
- Ensure all RSIC EXT04 clips are securely fastened to the structure with a minimum #8 x 1-1/2" long screw for wood framed systems
- At the perimeter, the distance between the wall and first support for the drywall shall be less than 8”.
- Variances in the field may require additional adjustment to ensure a consistent system. (see field calibration guide)
- When attaching plywood or other hard surface materials to light gauge drywall furring channel use RSIC-Super Coarse screw

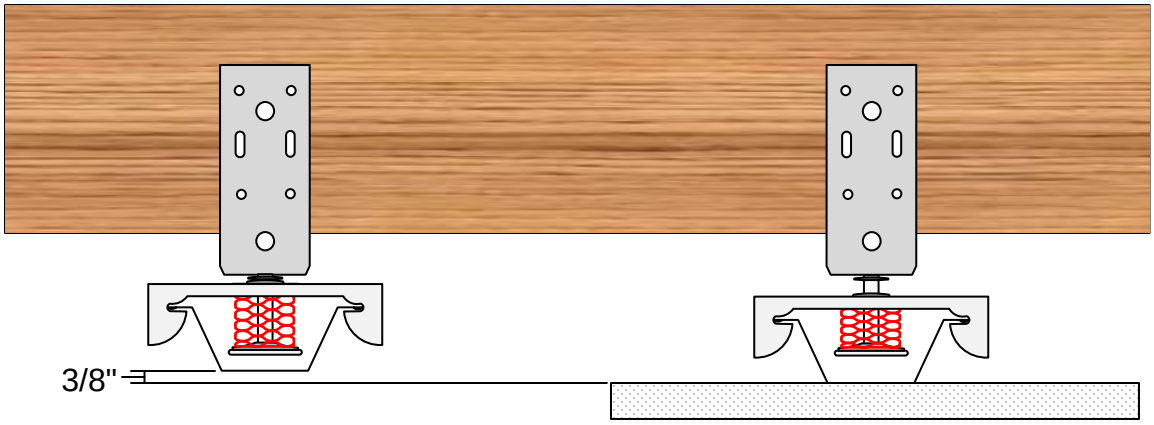
RSIC-SI-X EXT04 SOUND ISOLATION CLIP

RSIC-SI-X EXT04 INSTALLATION GUIDE

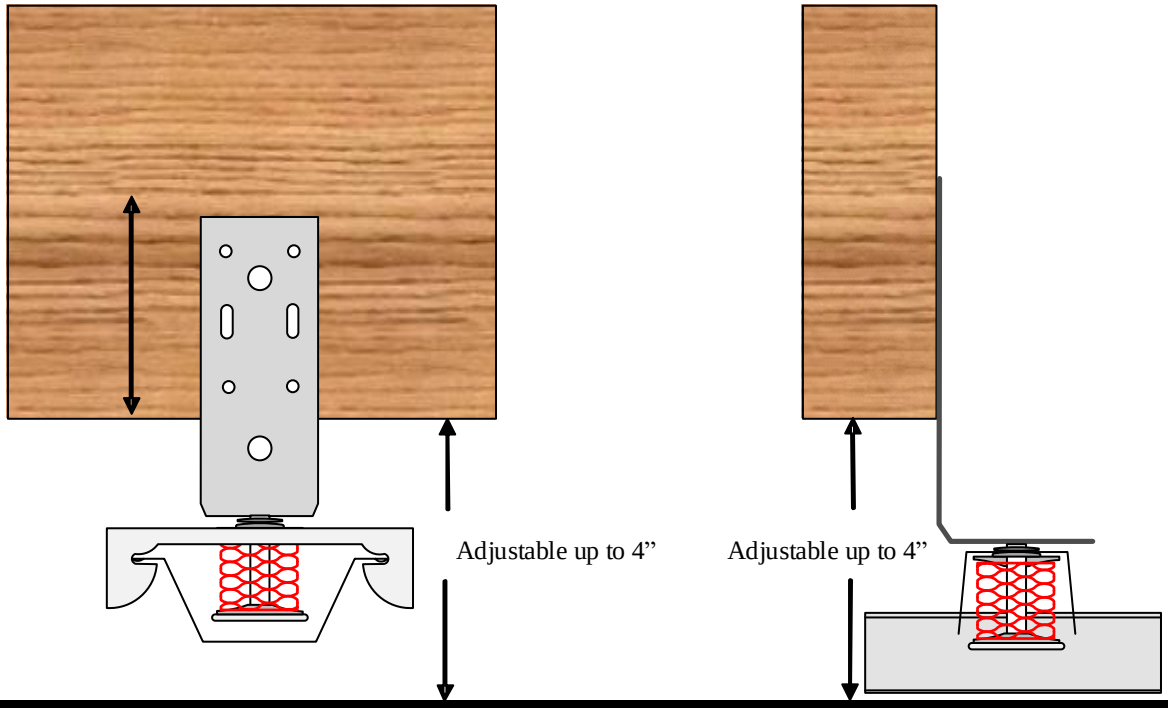
General Information:

- Resilient Sound Isolation Clip (RSIC-SI-X EXT04), 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.

Spring Height before gypsum board is installed.

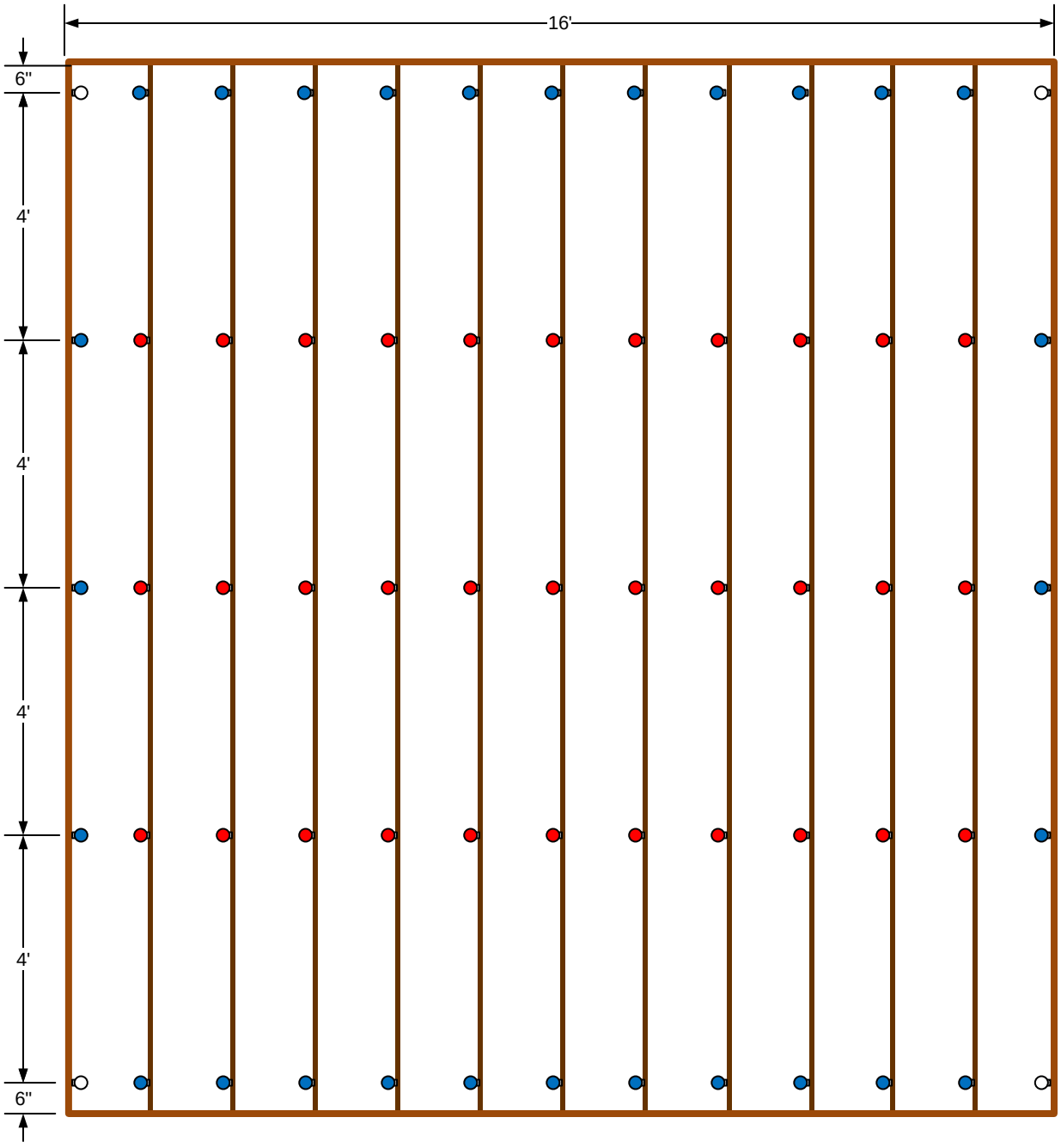


Spring Height after gypsum board is installed.



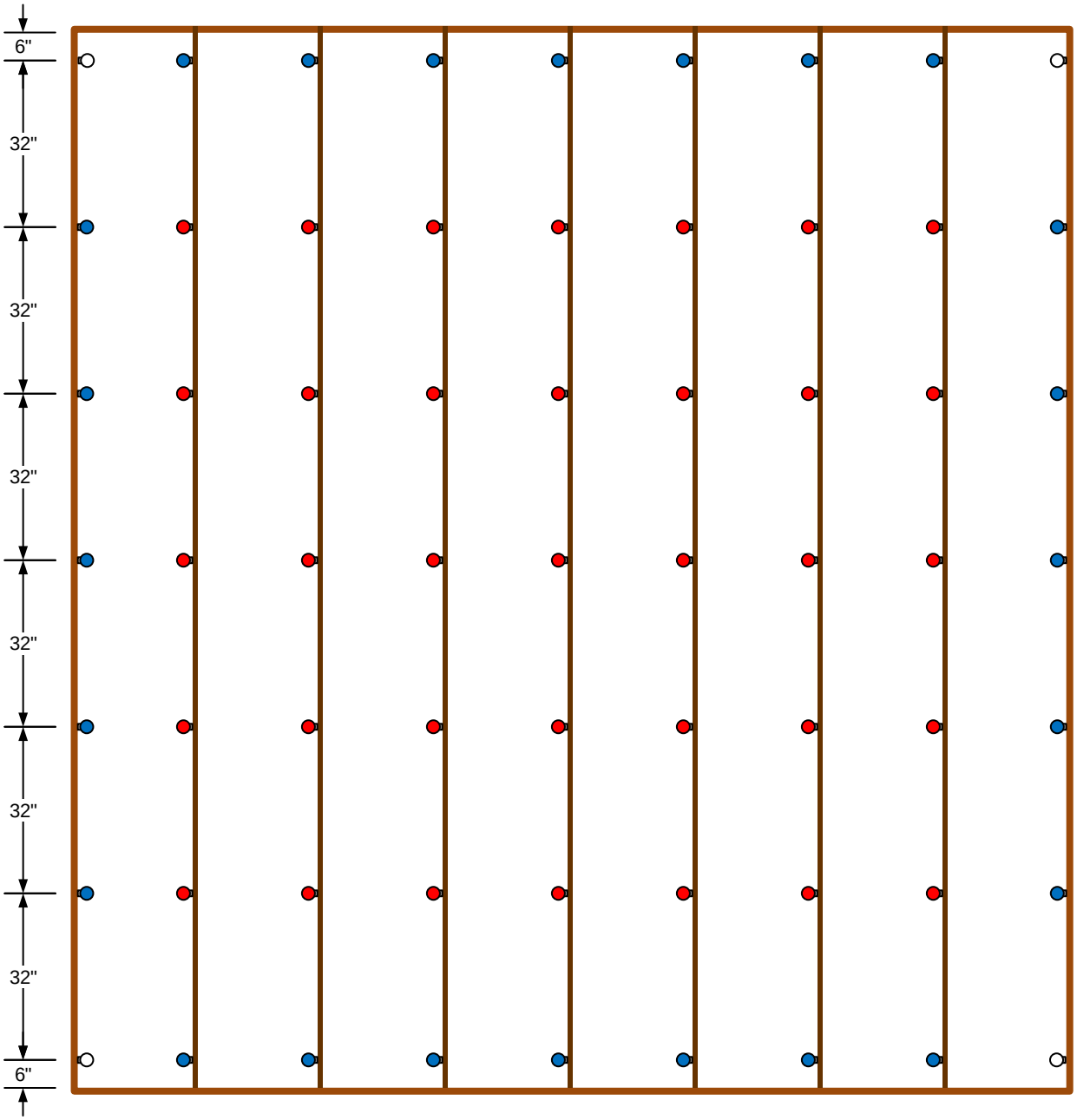
RSIC-SI-X EXT04 SOUND ISOLATION CLIP

RSIC-SI-X EXT04 SPRING
INSTALLATION WITH FRAMING SPACED @ 16” OC.
RSIC-SI-X EXT04 @ 16” OC.



RSIC-SI-X EXT04 SOUND ISOLATION CLIP

RSIC-SI-X EXT04 SPRING
INSTALLATION WITH FRAMING SPACED @ 24” OC.
RSIC-SI-X EXT04 @ 16” OC.



World Leader in Noise Control Solutions

LEED Analysis
RSIC-SI-X EXT04

Recycled Content

PAC International's RSIC-SI-X EXT04 does not contain signification recycled content.

Fabrication Location

The RSIC-SI-X EXT04 is manufactured in Canby, OR 97013

Material Source

The extraction points for the materials in these products cannot be verified. Assume they are outside the 500 mile radius.

PAC International, LLC., 2000 4th Ave Canby, OR 97013 • (866) 774-2100 • Fax (866) 649-2710