



RESILMOUNT A50R SUBMITTAL PACKAGE



A Studco Innovation

3 PART SPECIFICATION GUIDE

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3 -Part Format, including MasterFormat, SectionFormat, and PageFormat, contained in the CSI Manual of Practice. This section must be carefully reviewed and edited by the architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the drawings. Delete all "specifier notes" when editing this section.

SECTION 09 21 16

GYPSUM BOARD ASSEMBLIES

SECTION 092116

GYPSUM BOARD ASSEMBLIES

PART 1 GENERAL

1.1 GENERAL REQUIREMENTS

- A. A50R sound isolation hanger is installed with 12 gauge hanger wire between the structure and the finisher layer.
- B. Work of this Section, as shown or specified, shall be in accordance with the requirements of the Contract Documents.

1.2 SECTION INCLUDES

- A. Work of this Section includes all labor, materials, equipment and services necessary to complete the non structural metal framing acoustic isolation hangers as shown on the drawings and/or specified herein.
 - 1. A50R hangers can be installed with any wood, steel or concrete application where a drop ceiling is required and is designed to decouple and isolate the gypsum board or sheet goods from the structure increasing the acoustical performance of the system.

1.3 RELATED SECTIONS

- A. Section 05400 - Cold-Formed Metal Framing
- B. Section 061100 – Wood Framing.
- C. Section 072100 – Thermal Insulation
- D. Section 079219 – Acoustical Sealants.
- E. Section 092216 – Non-Structural metal Framing.
- F. Section 092900 – Gypsum Board.
- G. Section 095100 – Acoustical Ceilings.
- H. Section 098100 – Acoustic Insulation.

1.4 SUBMITTALS

- A. Comply with Section 013300 - Submittal Procedures.
- B. Product Data: Submit manufacturer's product data and installation instructions.
 - 1. Acoustic isolation hangers.
- C. Samples: Submit manufacturer's samples.
 - 1. Acoustic isolation hanger

Resilmount A50R Submittal Package

- D. Warranty: Submit manufacturer's standard warranty for resilient sound isolation clips.
- E. Submit product data
 - 1. Catalog cut sheet.
 - 2. Ceiling Sound Sound Transmission Loss Test Report per ASTM E90
 - a. Documenting a minimum 55 ceiling assembly with one layer of 5/8 in.
 - b. Documenting a minimum 58 ceiling assembly with two layer of 5/8 in.
 - 3. Sound test reports must be from an independent laboratory accredited by the National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP).

1.5 DELIVERY, STORAGE AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage: Store materials in clean, dry area indoors in accordance with manufacturer's instructions.
- C. Handling: Protect materials during handling and installation to prevent damage.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Provide product listed below by Studco.
 - 1. Resilmount Isolation Hanger Mount A50R.
 - a. Red: 65 lbs capacity.
 - b. Black: 120 lbs capacity.
 - c. Blue: 200 lbs capacity.
 - 2. Manufacturer: Studco Building Systems, Webster, NY 14580. Toll Free (800) 675-8023. Phone (585) 545-3000. Website www.resilmount.com. E-Mail: sales@studcosystems.com
 - 3. Rubber Isolator:
 - a. Natural organic or man-made rubber compounds
 - b. Molded to sound isolation hanger.

2.2 MATERIALS

- A. Acoustic Isolation Hangers shall be incorporated, in series, into the suspension system at all points of support. The metal structural portion of the Acoustic Isolation Hangers shall be 11 gauge zinc coated steel wire forms interlocked through holes in zinc coated steel pressure plates and swaged in place to provide failsafe construction. Rubber collars shall be provided at the points where the wire forms pass through the pressure plates to prevent metal-to-metal contact.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive materials. Notify architect if areas are not acceptable. Do not begin installation until unacceptable conditions have been corrected

3.2 INSTALLATION - GENERAL

- A. Calculate the total weight of the ceiling per 16 square feet.
 - 1. Estimated weights of drywall per square foot:

Resilmount A50R Submittal Package

- a. 5/8" drywall: 2.2 pounds per square foot
- b. 1/2" drywall: 1.6 pounds per square foot
- B. Determine hanger type needed.
1. A50R-1: 65 pounds per hanger
 2. A50R-2: 120 pounds per hanger
 3. A50R-3: 200 pounds per hanger
- C. Resilient Sound Isolation Hanger (A50R) shall be 48 inches by 48 inches on center maximum.
1. 1 layer of 5/8" drywall – Space the A50R hanger a maximum of 48" x 48" on center.
 2. 2 Layers of 5/8" drywall – Space the A50R hanger a maximum of 48" x 24" on center.
 3. Space the hangers on the perimeters of the ceiling 6" away from the wall.
- D. Contractor shall install ceiling suspension system and the hanging rod that is hung from the substrate, the lower end of the rod needs to be bent up in accordance with the ceiling system manufacturers specifications, providing a 'hook' on which the acoustic isolation hangers can be hung.
- E. Once the mount is in place, another section of hanging rod is required to be bent and inserted through the lower side of the acoustic isolation hangers. The shaft of this rod then becomes the mounting point for the ceiling suspension clip.

END OF SECTION

Resilmount A50R Submittal Package



A50R Resilient Isolation Hanger

SPECIFICATIONS

Part No#	Color	Height	Deflection (mm)	Capacity (lbs)
A50R-1	Red	4"	3/16"	65
A50R-2	Black	4"	3/16"	120
A50R-3	Blue	4"	3/16"	200

The extensive range of sound isolation mounts for ceilings from Studco Building Systems now includes a selection of isolation hangers that have varying load capacities. That means that optimum ceiling acoustics are achievable regardless of the weight of the ceiling system. The unique color coding of the mounts identifies the ceiling load capacity.

FEATURES

- Easily works with all hanger wire.
- Easy installation into new or existing ceiling systems.
- Provides 3/16" static deflection as required in some installations
- Acoustically tested for STC and IIC.
- Does not reduce the load capacity of the ceiling system.
- Suitably isolates the ceiling system from the structure to reduce structure and airborne noise.
- Elastomer Type: Natural Rubber.
- Load capacity: From 65 to 200Lbs.

Acoustical Max Loading: Optimum weight capacity: 65 lbs. (red), 120 lbs. (black), 200 lbs. (blue)



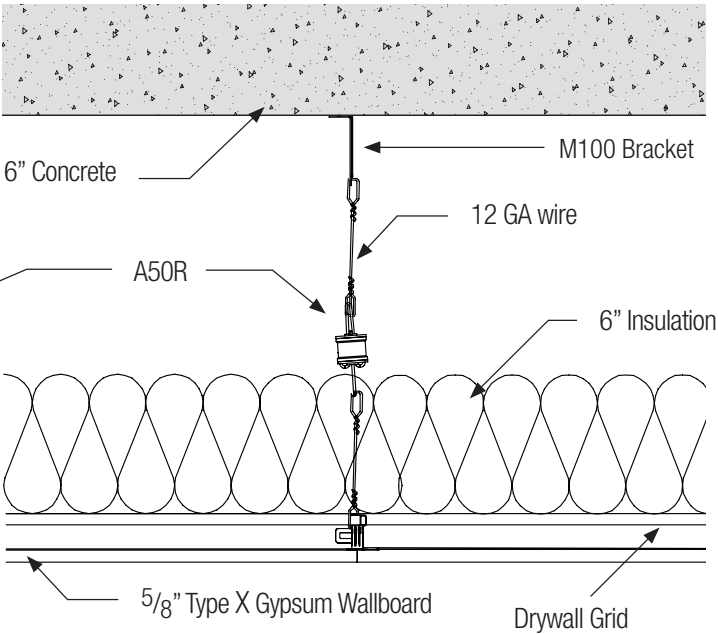
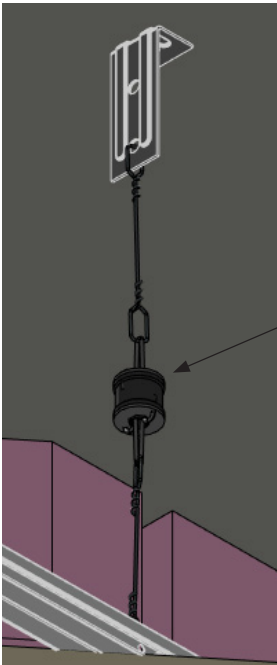
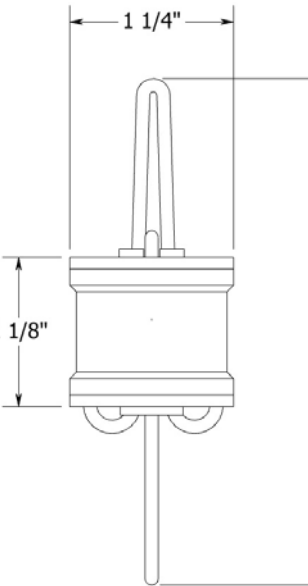
A50R-1



A50R-2



A50R-3



Resilmount A50R Submittal Package



APPLICATION

Resilmount™ A50R is specifically designed for the support and acoustical isolation of internal suspended ceiling systems.



DYNAMIC CHARACTERISTICS

The Resilient A50R-1 will deflect 3/16" when loaded to 65lb capacity and maintain optimal sound isolation in accordance with US Standards.

The Resilient A50R-2 will deflect 3/16" when loaded to 120lb capacity and maintain optimal sound isolation in accordance with US Standards.

The Resilient A50R-3 will deflect 3/16" when loaded to 200lb capacity and maintain optimal sound isolation in accordance with US Standards.



INSTALLATION NOTES

When selecting hangers, it is recommended that the calculated mass of the ceiling system is increased by 10-20% to avoid overloading of the isolation element. If maximum rated deflections are required, the ceiling system needs to be accurately weighed and point loads assessed in accordance with the architectural specifications of the project.

The site contractor can undertake normal installation procedures of the suspended ceiling system. Once the hanging wire has been hung from the substrate, the lower end of the wire needs to be bent up in accordance with the ceiling system manufacturers specifications, providing a 'hook' on which the Resilmount™ A50R can be hung.

Once the mount is in place, another section of hanging wire is required to be bent and inserted through the lower side of the Resilmount™ A50R. The shaft of this wire then becomes the mounting point for the ceiling suspension clip.

A50R-1



A50R-2



A50R-3



Resilmount A50R Submittal Package



RELATED PRODUCTS

A237R Resilmount Sound Isolation Clip
A237 Resilmount Clip without rubber
A48R Resilmount Right angle bracket
A24R Double Resilmount bracket



WARRANTY

This product is covered by a year guarantee. Conditions and limitations of guarantees and warranties are set out in Studco Project Guarantee certificate.

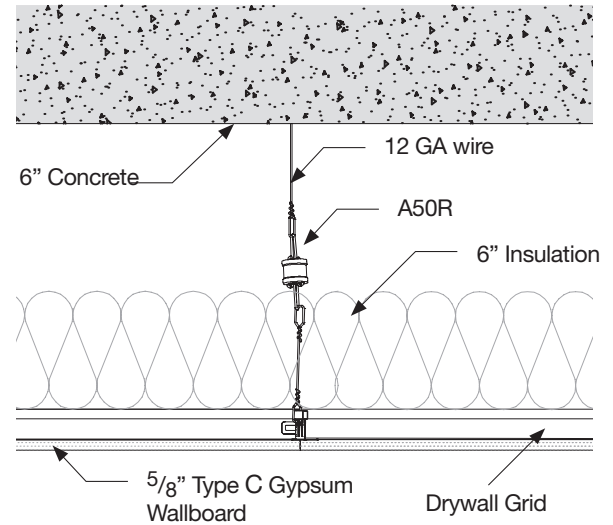


FURTHER ASSISTANCE

Contact the technical engineering team at Studco Technical Services for assistance with specifications, product selection, acoustic engineering and structural engineering enquiries.
Tel: 800.675.8023 or email sales@resilmount.com



ACCREDITATION/CERTIFICATION



Resilmount A50R-1 Submittal Package

APPLICATION

Resilmount A50R-1 is specifically designed for the support and acoustical isolation of internal suspended ceiling systems.

FEATURES

- Easily works with all hanger wire.
- Easy installation into new or existing ceiling systems.
- Accoustically tested for STC and IIC.
- Does not reduce load capacity of the ceiling system.
- Suitably isolates the ceiling system from the structure to reduce structure and airborne noise.
- Load capacity: 65lbs

INSTALLATION NOTES

When selecting hangers, it is recommended that the calculated mass of the ceiling system is increased by 10-20% to avoid overloading of the isolation element. If maximum rated deflections are required, the ceiling system needs to be accurately weighed and point loads assessed in accordance with the architectural specifications of the project.

The site contractor can undertake normal installation procedures of the suspended ceiling system. Once the hanging wire has been hung from the substrate, the lower end of the wire needs to be bent up in accordance with the ceiling system manufacturers specifications, providing a 'hook' on which the Resilmount A50R-1 can be hung.

Once the mount is in place, another section of hanging wire is required to be bent and inserted through the lower side of the Resilmount A50R-1. The shaft of this wire then becomes the mounting point for the ceiling suspension clip.

DYNAMIC CHARACTERISTICS

The Resilmount A50R-1 will deflect 3/16" when loaded to 65lb capacity and maintain optimal sound isolation in accordance with US Standards.



A50R-1



A50R-1 INSTALLATION

Resilmount A50R-1 Submittal Package



SPECIFICATIONS

Code	Clip Height	Max Deflection*	Weight Capacity (lbs)*	Color
A50R-1	4"	3/16"	65	Red

*Maximum Deflection at Maximum Weight
#Lead time and minimum quantities may apply.

RELATED PRODUCTS

A130R Heavy Duty Sound Isolation Mounting Bracket
MBFR BetaFix Sound Furring Channel Sound Isolation Clip
W20R Sound Isolation Washer

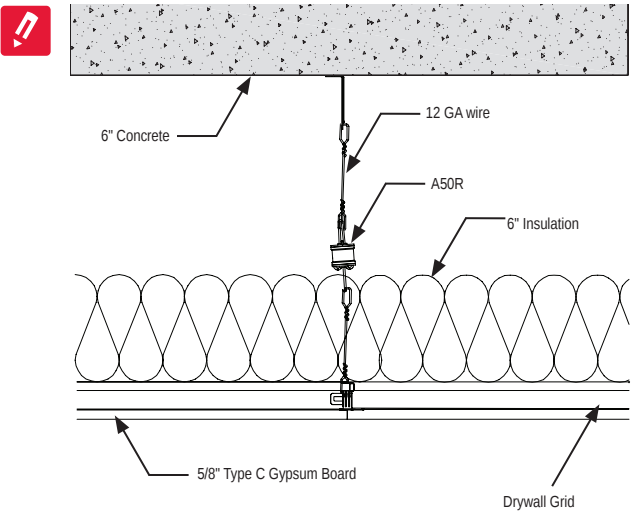
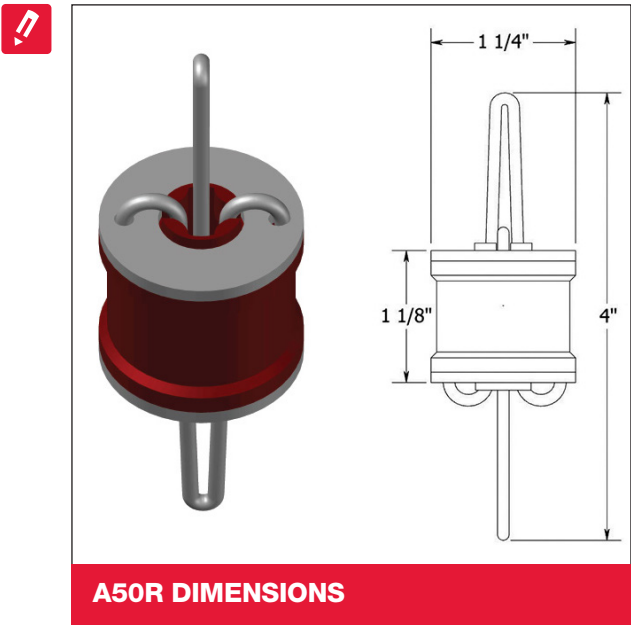
WARRANTY

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ACCREDITATION/CERTIFICATION



Resilmount A50R-2 Submittal Package

APPLICATION

Resilmount A50R-2 is specifically designed for the support and acoustical isolation of internal suspended ceiling systems.

FEATURES

- Easily works with all hanger wire.
- Easy installation into new or existing ceiling systems.
- Accoustically tested for STC and IIC.
- Does not reduce load capacity of the ceiling system.
- Suitably isolates the ceiling system from the structure to reduce structure and airborne noise.
- Load capacity: 120lbs

INSTALLATION NOTES

When selecting hangers, it is recommended that the calculated mass of the ceiling system is increased by 10-20% to avoid overloading of the isolation element. If maximum rated deflections are required, the ceiling system needs to be accurately weighed and point loads assessed in accordance with the architectural specifications of the project.

The site contractor can undertake normal installation procedures of the suspended ceiling system. Once the hanging wire has been hung from the substrate, the lower end of the wire needs to be bent up in accordance with the ceiling system manufacturers specifications, providing a 'hook' on which the Resilmount A50R-2 can be hung.

Once the mount is in place, another section of hanging wire is required to be bent and inserted through the lower side of the Resilmount A50R-2. The shaft of this wire then becomes the mounting point for the ceiling suspension clip.

DYNAMIC CHARACTERISTICS

The Resilmount A50R-2 will deflect 3/16" when loaded to 120lb capacity and maintain optimal sound isolation in accordance with US Standards.



A50R-2



A50R-2 INSTALLATION

Resilmount A50R-2 Submittal Package



SPECIFICATIONS

Code	Clip Height	Max Deflection*	Weight Capacity (lbs)*	Color
A50R-2	4"	3/16"	120	Black

*Maximum Deflection at Maximum Weight
#Lead time and minimum quantities may apply.

RELATED PRODUCTS

A130R Heavy Duty Sound Isolation Mounting Bracket
MBFR BetaFix Sound Furring Channel Sound Isolation Clip
W20R Sound Isolation Washer

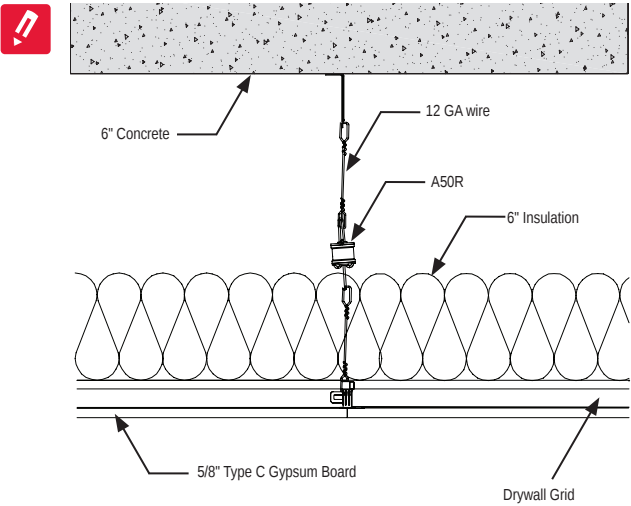
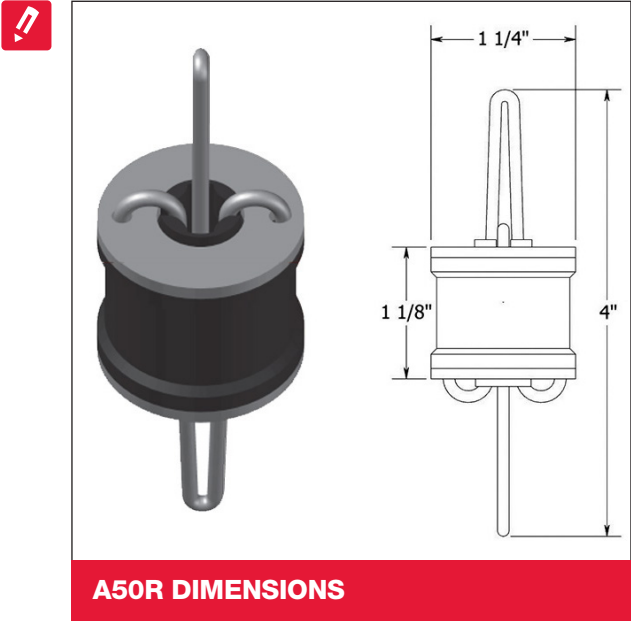
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Tel: 800 675 8023 or email sales@resilmount.com

ACCREDITATION/CERTIFICATION



Resilmount A50R-3 Submittal Package



APPLICATION

Resilmount A50R-3 is specifically designed for the support and acoustical isolation of internal suspended ceiling systems.

FEATURES

- Easily works with all hanger wire.
- Easy installation into new or existing ceiling systems.
- Accoustically tested for STC and IIC.
- Does not reduce load capacity of the ceiling system.
- Suitably isolates the ceiling system from the structure to reduce structure and airborne noise.
- Load capacity: 200lbs

INSTALLATION NOTES

When selecting hangers, it is recommended that the calculated mass of the ceiling system is increased by 10-20% to avoid overloading of the isolation element. If maximum rated deflections are required, the ceiling system needs to be accurately weighed and point loads assessed in accordance with the architectural specifications of the project.

The site contractor can undertake normal installation procedures of the suspended ceiling system. Once the hanging wire has been hung from the substrate, the lower end of the wire needs to be bent up in accordance with the ceiling system manufacturers specifications, providing a 'hook' on which the Resilmount A50R-3 can be hung.

Once the mount is in place, another section of hanging wire is required to be bent and inserted through the lower side of the Resilmount A50R-3. The shaft of this wire then becomes the mounting point for the ceiling suspension clip.

DYNAMIC CHARACTERISTICS

The Resilmount A50R-3 will deflect 3/16" when loaded to 200lb capacity and maintain optimal sound isolation in accordance with US Standards.



A50R-3



A50R-3 INSTALLATION

Resilmount A50R-3 Submittal Package



SPECIFICATIONS

Code	Clip Height	Max Deflection*	Weight Capacity (lbs)*	Color
A50R-3	4"	3/16"	200	Blue

*Maximum Deflection at Maximum Weight
#Lead time and minimum quantities may apply.

RELATED PRODUCTS

A130R Heavy Duty Sound Isolation Mounting Bracket
MBFR BetaFix Sound Furring Channel Sound Isolation Clip
W20R Sound Isolation Washer

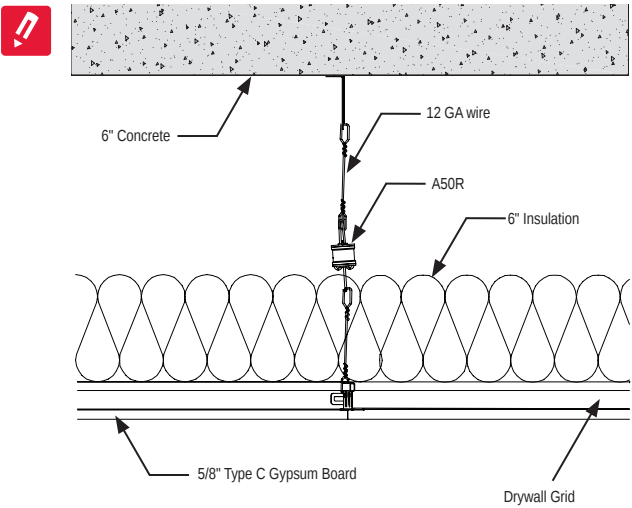
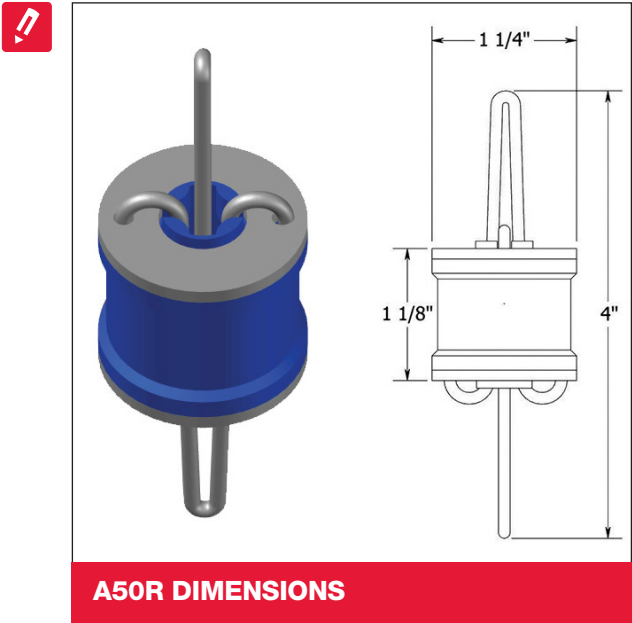
WARRANTY

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FURTHER ASSISTANCE

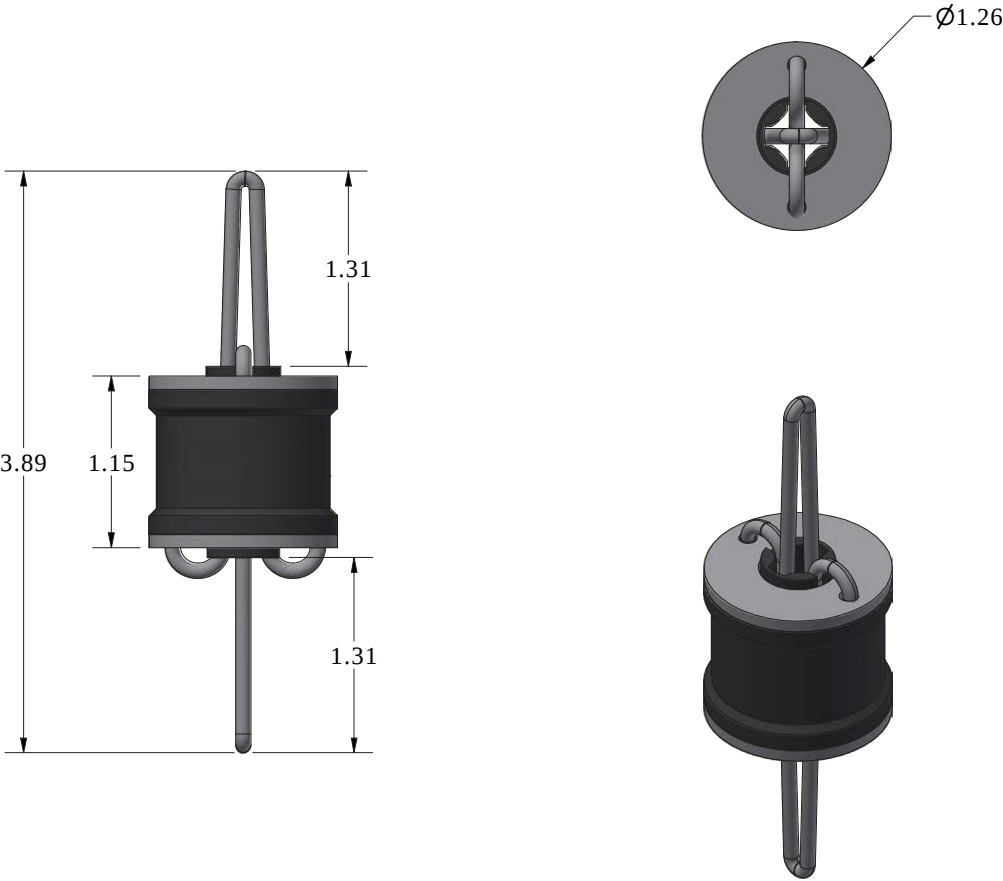
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ACCREDITATION/CERTIFICATION



Resilmount A50R Submittal Package

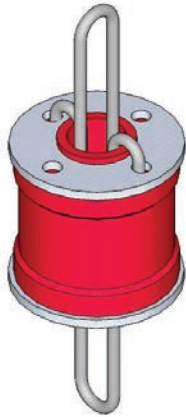
 PRODUCT DIMENSIONS



Resilmount A50R Submittal Package



Floor - Ceiling Assemblies: 6" Concrete Slab with 1 Layer of Type X Gypsum Wallboard

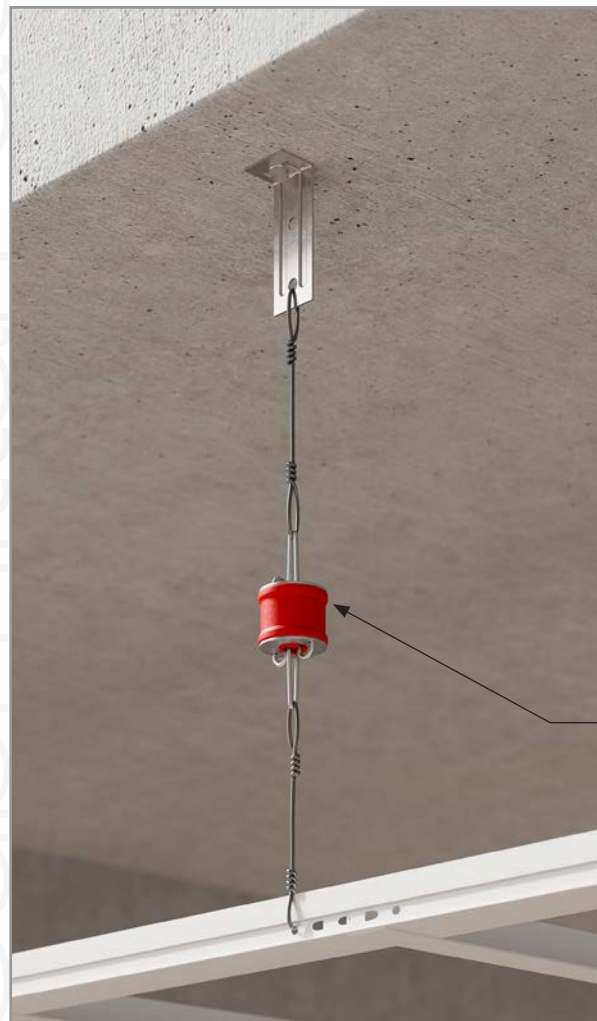


A50R-1

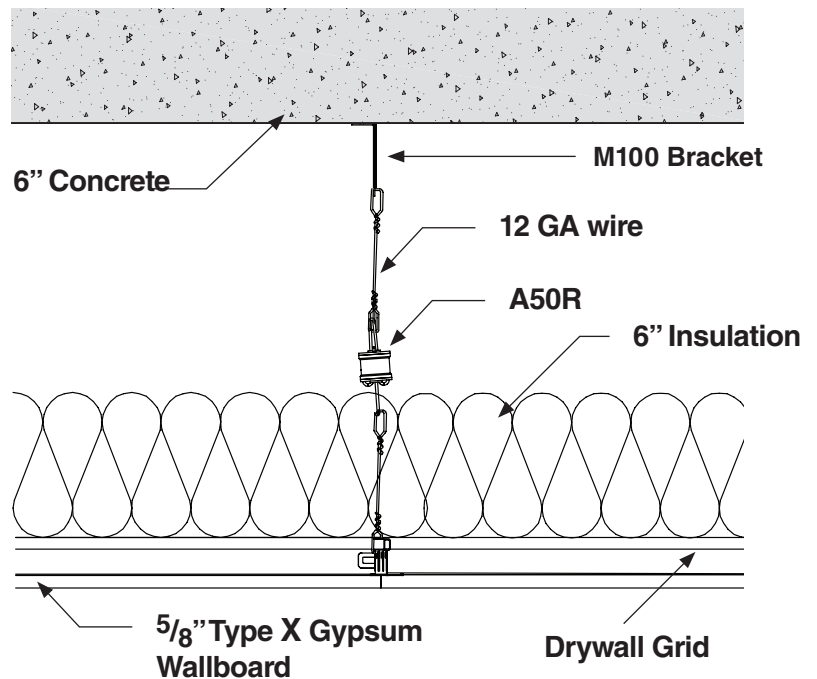
FIG 33

- Easily works with all hanger wire.
- Easy installation into new or existing ceiling systems.
- Acoustically tested for STC and IIC.
- Does not reduce the load capacity of the ceiling system.
- Suitably isolates the ceiling system from the structure to reduce structure and airborne noise.
- Elastomer Type: Natural Rubber.
- Load capacity: 65 Lbs.

FIG 34



A50R



ACCREDITATIONS



RAL-IN14-014 (IIC)
RAL-TL14-233 (STC)

Resilmount A50R Submittal Package



INSTALLATION NOTES

1. Calculate the total weight of the ceiling per 16 sf.

Estimated Weights of drywall per square foot:

5/8" Drywall: 2.2lbs. per sf

1/2 Drywall: 1.6 lbs. per sf

- Keep in mind as you calculate the weight of your ceiling, additional products like lights and insulation.

2. Determine Hanger Type Needed:

A50R-1: 65 lbs. per hanger

A50R-2: 120 lbs. per hanger

A50R-3: 200 lbs. per hanger

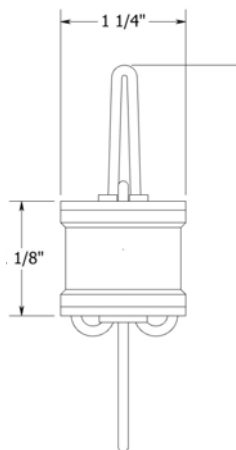
3. Fasten hanger to ceiling using a minimum 12 gauge wire. If a hanger bracket is needed we recommend using our M47 right angled bracket.

- 4. • 1 Layer of 5/8 drywall - Space the A50R hanger a maximum 48" x 48" OC.
- 2 Layers of 5/8 drywall - Space the A50R hanger a maximum 48" x 24" OC.
- Space the hangers on the perimeters of the ceiling 6" away from the wall.

IMPORTANT NOTES

- With a hung drywall ceiling leave a 1/8" - 1/4" gap around the perimeter of the drywall.
- Fill all gaps with acoustical caulk in order to achieve the best noise results.

Lead time and minimum quantities may apply.



A50R-1



A50R-2



A50R-3



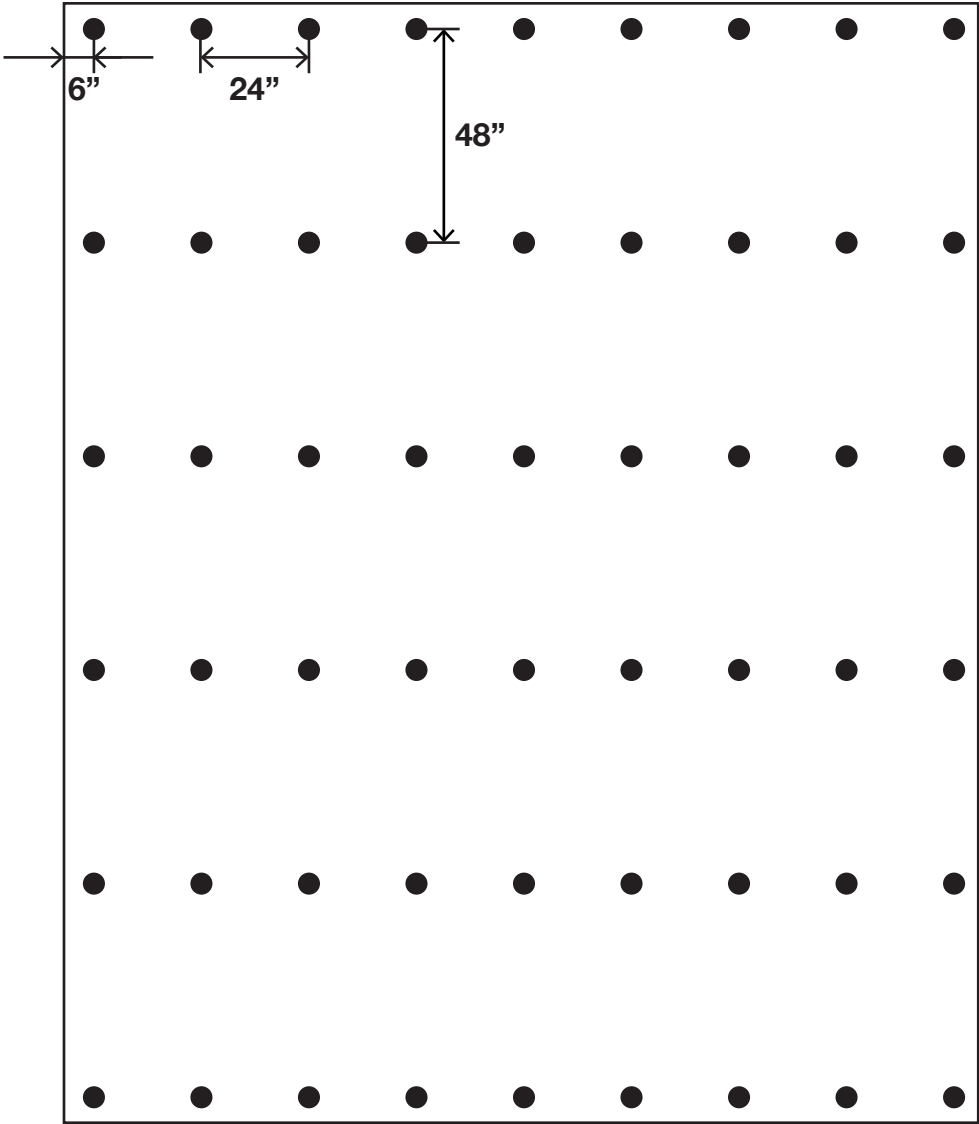
M100

Resilmount A50R Submittal Package



INSTALLATION LAYOUT

A50R CLIPS AT 24" X 48" OC



Resilmount A50R Submittal Package

Suspended Ceiling Assemblies

Assembly	Part #	STC	IIC
6" Bare Concrete Slabs	A50R-1,2,3	63	61
6" Bare Concrete Slabs Double Layer Gypsum Board	A50R-1,2,3	62	61

Resilmount™ A50R Durometers



Part No#	Durometer
A50R-1	50
A50R-2	68
A50R-3	80

Durometer tends to have a + / - 5