



Resilmount A237R™ is an engineered, patented acoustic resilient mounting bracket for Studco furring channels, reducing airborne and structure-borne vibration in wall and ceiling applications. Resilmount's patented thermoplastic rubber outperforms standard rubber because of its unique natural absorbing characteristics. Resilmount's unique sound cell design guards against structure-borne vibrations transferring into the body of the Resilmount bracket because of its strong column design providing a small percentage of contact surface area with the structure or substrate it is fastened to. This aids in absorbing and breaking up airborne sound at its transfer point.

From humble beginnings in 1986 as a steel stud roll former in Melbourne, Australia, Studco has developed into a truly global manufacturer of premium building systems for the commercial and residential construction industry.

Our objective is to be the company of choice through premium service to our customers. Our service is driven by the needs of the customer, by quality products, by innovation and creativity, and by delivering a competitively superior solution. We will conduct our business with purpose, prudence and progressive thinking, using sound and proven business methods, for benefit of the all stakeholders.

SECTION 092213

SOUND ISOLATION MOUNTS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Non-load-bearing metal furring systems with sound isolation mounts for interior ceilings and walls.

1.2 RELATED SECTIONS

- A. Section 054000 - Cold-Formed Metal Framing.
- B. Section 092216 - Non-Structural Metal Framing.
- C. Section 092116 - Gypsum Board Assemblies.
- D. Section 098100 – Acoustic Treatment.

1.3 SUBMITTALS

- A. Product Data: Submit for each product indicating materials, dimensions, profiles. Include installation instructions.

1.4 QUALITY ASSURANCE

- A. Manufacturer: Minimum of 5 years experience producing similar products.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.



- B. Storage and Handling: Comply with manufacturer's recommendations for storage and handling. Protect from weather damage. Prevent exposure to direct sunlight.

1.6 WARRANTY

- A. Warranty: Provide manufacturer's standard limited warranty against defects in manufacturing.

PART 2 - PRODUCTS

2.1 SOUND ISOLATION MOUNTS

- A. Basis of Design: Resilmount A237R™ as manufactured by Studco Building Systems US LLC. 1700 Boulter Industrial Parkway, Webster NY 14580; Toll Free Tel: 800-675-8023; Fax: 585-545-3010; Email: sales@resilmount.com; www.resilmount.com.
 - 1. Fire-Rated Applications: No A300 1/4 by 1 in (6 by 25 mm) diameter washer as supplied by Studco Building Systems.
- B. Engineered, patented acoustic resilient mounting bracket for Studco furring channels, for reducing airborne vibration and structure-borne vibration in wood, steel and concrete wall and ceiling applications. For use wood, steel, CMU or concrete application.
 - 1. Engineered thermoplastic rubber with sound cell design.
 - 2. Small percentage of contact surface area with the structure or substrate.
 - 3. Decoupled gypsum board from the structure.
 - 4. Used to suit 7/8 in (22 mm) and 1-1/2 in (38 mm) 25 ga. furring channels.
 - 5. Provided with a 1/4 in (6 mm) hole for a variety of fasteners.
 - 6. Manufactured under ISO 9001 quality control system along with the environmental rating ISO 14001.
- C. Standards Compliance:
 - 1. UL approved in 107 wall and ceiling assemblies.
 - 2. UL and ULc listed.
 - 3. Warnock and Hershey listed in USA and Canada.
- D. Dimensions:
 - 1. Width: 1-3/8 in (35 mm).
 - 2. Height (including rubber): 1-1/16 in (27 mm).
 - a. Rubber Height: 3/8 in (9 mm).
 - 3. Length: 3-3/16 in (81 mm).
 - 4. Formed Metal Thickness: 0.047 in (1.19 mm).
 - 5. Max spacing between clips: 48 in (1219 mm) on center.
 - 6. Acoustical Design Load: 37 lbs (16.8 kg).
- E. Loading Capacities:

SPECIFIER'S NOTE: ISOLATION MOUNTS CARRY FURRING CHANNELS WITH ONE OR MORE LAYERS OF GYPSUM WALLBOARD ATTACHED. LOAD CAPACITY OF ISOLATION MOUNTS DEPENDS ON GAUGE OF THE HAT CHANNEL. 25 GAUGE FURRING CARRIES LESS LOAD THAN 20 GAUGE BUT PERFORMS BETTER ACOUSTICALLY. DESIGN LOADS ARE BASED ON TESTING TO FAILURE WHERE FURRING CHANNEL DEFORMS. GYPSUM WALL BOARD, 5/8 IN () THICK WEIGHS 2.2 LBS PER SQ FT. GYPSUM WALL BOARD, 1/2 IN () THICK WEIGHS 1.6 LBS PER SQ FT.

- 1. Isolation Mounts with 25 gauge hat channel: [Safety Factor 2 to 1: 45 lbs (20.4 kg)] [Safety Factor 2.5 to 1: 36 lbs (16.3 kg)].



2. Isolation Mounts with 20 gauge hat channel: [Safety Factor 2 to 1: 60 lbs (27.2 kg)]
[Safety Factor 2.5 to 1: 48 lbs (21.8 kg)].

2.2 HAT-SHAPED RIGID METAL FURING CHANNELS

- A. Features and attributes:
 1. Standards Compliance: ASTM C645.
 2. Material: 25 gauge steel.
 3. Depth: 7/8 in (22 mm) or 1-1/2 in (38 mm).
 4. Width at top: 1-1/4 in (32 mm) maximum.
 5. Width flange to flange: 2-1/2 to 2-3/4 in (63 to 70 mm). Hemmed edges.

2.3 FASTENERS

- A. Mechanical Fasteners:
 1. Screws for Wood: No. 8 x 2-1/2 in (63 mm) coarse thread screws.
 2. Screws for Steel: No [8] [10] [12] by 1-5/8 in (41 mm) long self tapping type S screws.
 3. Screws for Concrete: 3/16 in (8 mm) by 2-1/4 in (57 mm) typical and 3/16 in (8 mm) by 2-1/2 in (63 mm) for fire rated applications anchor screws.
- B. Tie Wire: 18 gauge, annealed, galvanized steel.

2.4 SEALANTS

- A. Specified in Section 07920:
 1. Acoustical Sealant: Flexible, non-hardening.
 2. Fire and Smoke Sealant: Flexible, non-hardening.
 3. Putty Pad Sealant: At electrical boxes and other penetrations.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions under which the isolation mounts and metal furring will be installed for compliance with the following requirements.
 1. Verify that surfaces and conditions are suitable prior to commencing work of this section.
 2. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install materials in accordance with manufacturer's instructions.
 1. Resilmount A237R™ mounts shall not exceed 48 in (1219 mm) on center.
 2. Resilmount™ A237R shall be installed staggered on any wall ceiling assembly, in order to distribute the weight evenly.
 3. Spacing between metal furring channels shall not exceed 24 in (610 mm).
 - a. Reduce spacing of drywall furring channels to prevent potential for sagging of gypsum board or when additional loads are supported by resilient sound isolation clips.
 4. Fasten the Resilmount A237R™ to the substrate with a fastener approved for a minimum pull-out and shear of 120 lbs (122.5 kg).
 5. Splicing Metal Furring Channel: overlap 6 in (152 mm) in between two Resilmount clips. Secure channel with two 7/16 in (11 mm) framing screws or 18 gauge tie wire.
 6. Ceiling:



- a. Locate the first row of A237R™ within 6 in (152 mm) of one wall and within 6 in (152 mm) of the opposite wall.
 - b. Metal Furring Channels are installed perpendicular to the joists.
 - c. Install the gypsum board leaving 1/8 to 1/4 in (3 to 6 mm) thick gap around perimeter to be filled with acoustical caulk.
 - d. Caulk around the entire perimeter of the gypsum board.
7. Walls:
- a. Locate the bottom row of Resilmount A237R™ within 3 in (76 mm) of the floor. Adjust lower to accommodate installation of baseboard if necessary.
 - b. Metal Furring Channels are installed horizontal to the floor.
 - c. Use a level to ensure that Resilmount A237R™ and furring channels are installed horizontal and level.
 - d. Install the drywall vertically from the bottom up leaving a 1/8 to 1/4 in (3 to 6 mm) thick gap around perimeter of wall to be filled with acoustical caulk. Caulk around the entire perimeter of the gypsum board.
8. Fire-Resistive Assemblies: Install per UL Fire Resistance Directory, where required.

3.3 PROTECTION

- A. Protect installed products from damage during remainder of the construction period.

END OF SECTION 092213