RESILMOUNT®
SOUND ISOLATION SOLUTIONS

RESILMOUNT A237 SUBMITTAL PACKAGE

STUDCO BUILDING SYSTEMS
A Studco Innovation

Resilmount A237 Submittal Package

Resilmount Sound Isolation Solutions are a division of Studco Building Systems, a leading manufacturer of innovative building materials. Resilmount offers a range of patented sound isolation products for the wall and ceiling industry.

UNIQUE PATENTED THERMOPLASTIC RUBBER WITH SOUND CELL DESIGN

Solve the problem of noise transfer in high density accommodations with Resilmount. Our Resilient mount clips provide acoustic control by locking into place on standard furring channels for easy construction and effective solutions to unwanted noise. Resilmount clips isolate wall and ceiling systems from the building structure resulting in premium acoustic control.

SOUND TESTING

Resilmount's sound isolation mounts have been tested in order to meet the required acoustic performance.
A range of testing and acoustic opinions are available upon request, please contact sales@resilmount.com for further information.

Riverbank Acoustical Laboratories

WEAL

NGC Testing Services — Acoustical • Fire • Structural • Analytical

PKA Acoustic Consulting — www.pka.com.au

Tested according to ASTM Standards

QUALITY ASSURANCE AND ENVIRONMENTAL POLICY

ISO9001:2015 Certified Company — Quality Management System

ISO 9001 Quality Management System

The quest for optimum quality never ends at Studco. The consistency of our quality is one of the cornerstones of Studco's reputation as a reliable supplier of metal building systems.
In order to achieve dependable quality in our products and service, Studco Building Systems is certified to ISO 9001 Quality Management System. This internationally recognized benchmark of quality is rigidly applied to all facets of our operations, ensuring premium quality products and premium customer service at all times. Customers can be certain of the quality of Studco's products because of the stringent controls we impose on our production processes.

ISO14001:2015 Certified Company — Environmental Management System

ISO 14001 EMS Certification

The management team at Studco have long held the view that caring for the environment is a corporate responsibility. In fact, responsibility of and caring for the environment in which we live is a Studco hallmark which is promoted at every level of our business. Our commitment to sensible environmental responsibility and corporate accountability is evident in our ongoing certification to the internationally recognized benchmark standard ISO 14001:2015 environmental management system.

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RESILMOUNT® SOUND ISOLATION SOLUTIONS

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APPLICATIONS

Resilmount® A237 is a direct mounting bracket for Studco furring channels, for reducing airborne and structure-borne vibration in wall and ceiling applications. The A237 represents an enhancement over the conventional resilient channel. Its installation does not compromise the acoustic application, unlike typical installation mistakes associated with standard resilient channel.

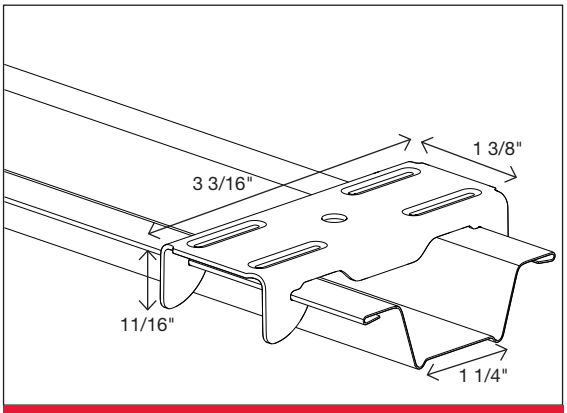
FEATURES

- Simple design makes it adaptable to several applications.
- Consistent and reliable quality - manufactured under ISO 9001.
- Decouples gypsum board from framing or structure to stop flow of STC and IIC vibrations.
- A237 clips can be used to suit 7/8" and 1 1/2" furring channels.
- A237 are provided with a 1/4" hole for a variety of fasteners.
- Resilmount is the most cost effective way to isolate airborne noise.
- UL approved in 38 wall and ceiling assemblies.

INSTALLATION NOTES

- A237 to be fastened to structure with a minimum #8 screw or masonry sleeve anchors.
  (see fasteners manufacturers specifications).
- Max design load: 55 lbs. Maximum dead load.
- Maximum spacing of clips on furring channel is 48".
- Spacing between furring channels should not exceed 24".

A237



A237 DIMENSIONS

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Resilmount A237 Submittal Package

SPECIFICATIONS

Code	Clip Height	Metal Thickness	Clip width x length
A237	11/16"	0.047"	1 3/8" x 3 3/16"

*Height of rubber on top of clip

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

RELATED PRODUCTS

A237R Furring Channel Sound Isolation Clip
A96R Purlin to Furring Channel Sound Isolation Bracket
A48R Right Angle Sound Isolation Bracket
A24R Chase Wall Sound Isolation Joiner Bracket

ACCREDITATION/CERTIFICATION

A237 WOOD INSTALLATION

A237 CONCRETE INSTALLATION

A237 STEEL INSTALLATION

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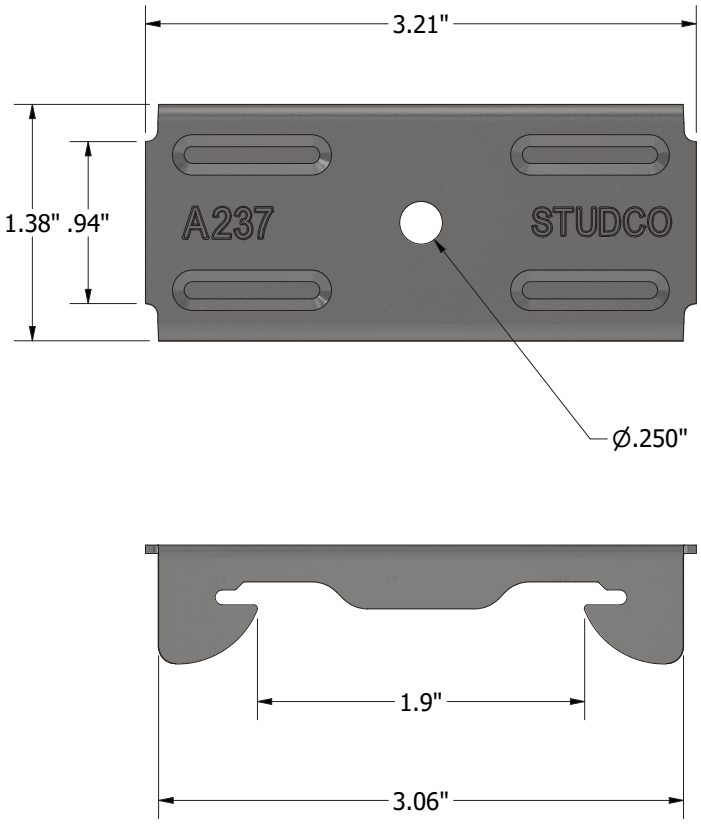
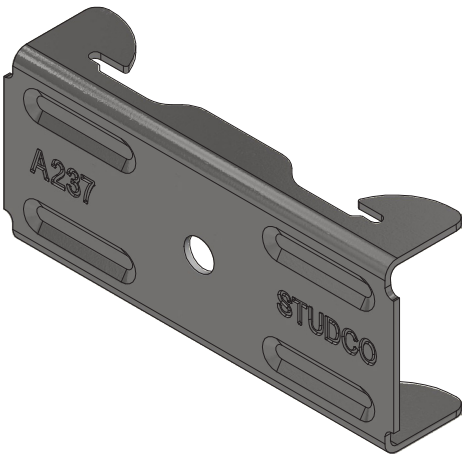
PRODUCT DIMENSIONS





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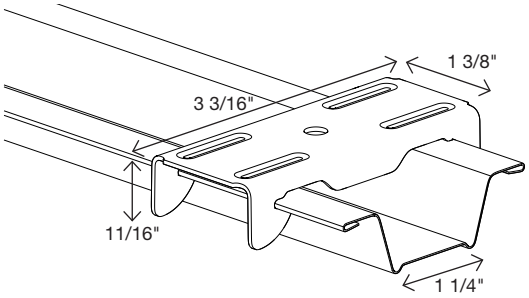
A237 SPECIFICATIONS

Width: 1-3/8”
Height (including rubber): 11/16”
Length: 3-3/16”
Max spacing between clips: 48” OC
Max Dead Load: 55Lbs.
Thickness added to wall: 1 5/8”

SPECIFICATIONS

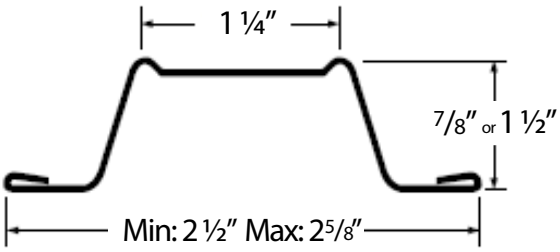
Code	Clip Height	Metal Thickness	Clip width x length
A237	11/16"	0.047"	1 3/8" x 3 3/16"

*Height of rubber on top of clip



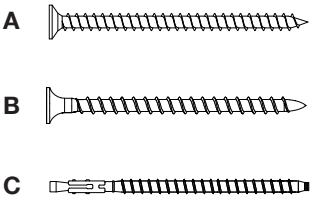
METAL FURRING CHANNEL SPECIFICATIONS:

Minimum: 25 Gauge with hemmed edge
Depth: Max. 7/8” or 1 1/2” (15 mil.)
Width at top: Max. 1 1/4” (15 mil.)
Width flange to flange: Min: 2 1/2” Max: 2 5/8”
When splicing metal furring channel overlap 6 inches in between two Resilmount clips. Secure the channel with two 7/16” framing screws or 18 Gauge tie wire can be used.
Splicing: Furring channel splicing should take place between the clips.



FASTENERS

Wood: # 8 x 2-1/2” Coarse Threads (A)
Steel: #8, #10 or #12 x 1-5/8” Self Tapping Type S (B)
Concrete: 3/16” x 2-1/4” Anchor Screws (C)
DO NOT fasten Resilmount clips to framing members with nails. Use only approved screws.



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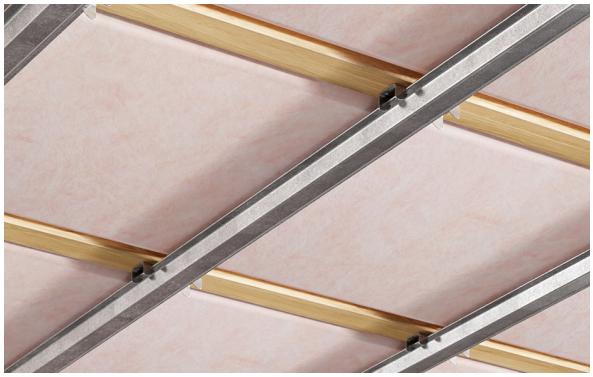
CEILING INSTALLATION GUIDE

INSTALLATION NOTES

- Resilmount A237 shall not exceed 48” on center.
- Spacing between metal furring channels shall not exceed 24”.
- Fasten the Resilmount A237 to the substrate with a fastener approved for a minimum pull-out and shear of 120 Lbs.
- Locate the first row of A237 within 6 inches of one wall and within 6 inches of the opposite wall.
- Metal Furring Channels are installed perpendicular to the joists.
- Install the gypsum board leaving 1/8” - 1/4” thick gap around perimeter to be filled with acoustical caulk.
- Caulk around the entire perimeter of the gypsum board.



CEILING INSTALLATION GUIDE

STEP 1

Review layout guidelines before starting installation of walls or ceilings (see Page 4). We suggest installing the ceiling first, before installing the walls.

STEP 2

Space Resilmount A237 so not to exceed 48” OC. Secure clips with a single fastener through the middle screw hole in the clip.

Wood: Use #8 x 2-1/2” coarse thread screws

Steel: Use #8, #10, or #12 x 1-5/8” Type s Self tapping screws

Concrete: Use 3/16” x 2-1/4” Tapcon or equal anchor

STEP 3

Snap metal furring channel into Resilmount A237.

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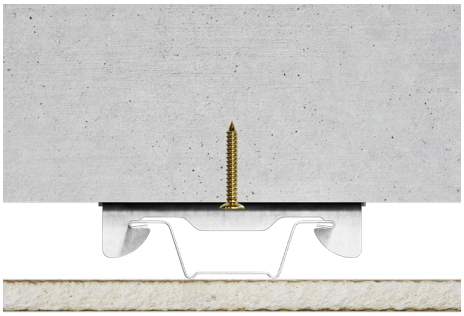
WALL INSTALLATION GUIDE

INSTALLATION NOTES

- Resilmount A237 shall not exceed 48” on center.
- Spacing between hat channels shall not exceed 24”.
- Fasten the Resilmount A237 to the substrate with a fastener approved for a minimum pull-out and shear of 120 Lbs.
- Locate the bottom row of Resilmount A237 within 3” of the floor. (May be adjusted lower to accomodate installation of baseboard).
- Metal Furring Channels are installed horizontal to the floor.
- Use a level to ensure that Resilmount A237 and furring channels are installed horizontal and level.
- Install the drywall vertically from the bottom up leaving a 1/8” - 1/4” thick gap around perimeter of wall to be filled with acoustical caulk. Caulk around the entire perimeter of the gypsum board.



WALL INSTALLATION GUIDE

Step 1

Review layout guidelines before starting installation of walls or ceilings (see Page 4). We suggest installing the ceiling first, before installing the walls.

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Concrete: Use 3/16” x 2-1/4” Tapcon or equal anchor

Step 3

Snap metal furring channel into Resilmount A237.

Step 4

The Floor Shims are critical to ensure best results. Place 1/4” shims on floor in front of sole plate. Install the first row of drywall vertically against the wall. Attach drywall to channel following local building codes.

Note: Only remove the shims after all the gypsum board is completely screwed to all furring channels.

Step 5

Use acoustical caulk around the entire perimeter of each wall.

Average Labor rates

A237: 72 clips per man hour
Furring channel: 550 LF per man hour

LOAD SPECIFICATION FOR A237

Resilmount Clips are designed to carry furring channel with one or more layers of gypsum wallboard attached. The load compacity of the clips depends on the gauge of the hat channel used.

25 Gauge furring channel carries less load than 20 Gauge channel and performs better acoustically. The maximum design load capacity for the Resilmount Clips in shear (Wall Application) or in tension(Ceiling Applications) as follows. Design load calculations are based on testing loading to failure where the furring channel deforms.

Maximum Load for Wall and Ceiling	2:1 Safety Factor	2.5:1 Safety Factor*
Resilmount Clips w/25 gauge hat channel	45 lbs	36 lbs
Resilmount Clips w/20 gauge hat channel	60 lbs	48 lbs

*Suggested safety factor of 2.5:1 for more critical life safety applications.

Note: 5/8” thick gypsum wallboard weighs 2.2 lbs/sq ft.
1/2” thick gypsum wallboard weighs 1.6 lbs/sq ft.

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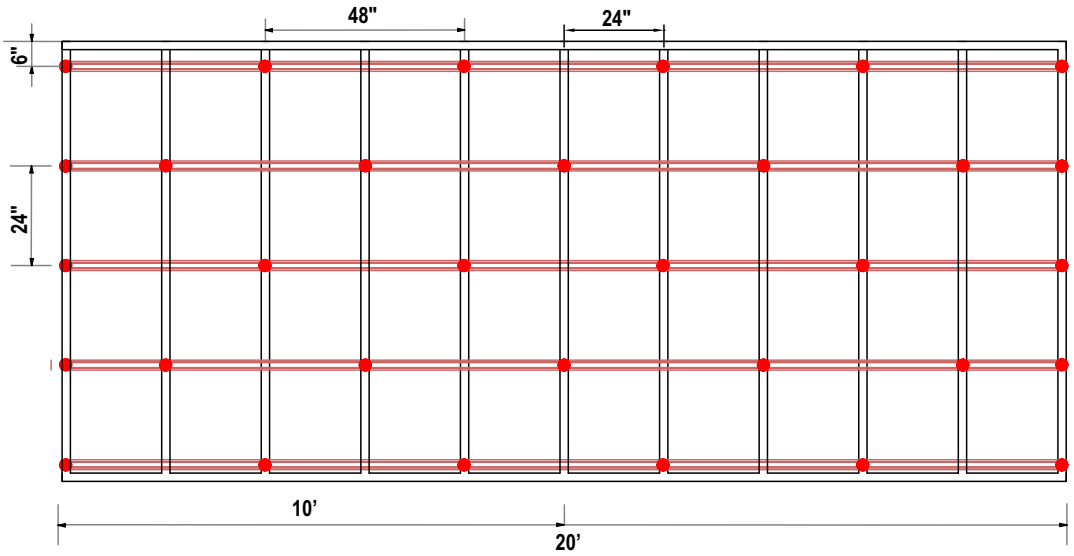
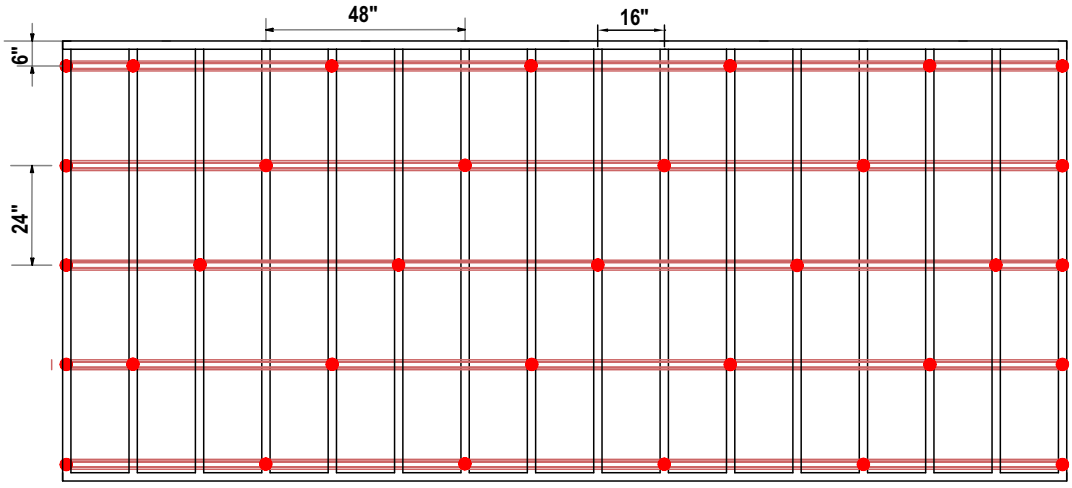
LAYOUTS ON WOOD AND METAL STUD WALLS & CEILINGS

24” FC: (sqft) x 0.6 = Furring Channel Lineal Footage / 16” OC is @ (x 0.8)
A237: (Sqft) ÷ 4.5 = Average Qty of Clips needed (24 x 48)

Layouts for studs at 24” OC with 1 or 2 layers of Gypsum Board



Layouts for studs at 16” OC with 1 or 2 layers of Gypsum Board



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CLIP USAGE GUIDE FOR WALLS & CEILINGS

Studs at 16” OC and Furring Channel at 24” OC.

WIDTH

HEIGHT	1' to 4'	5' to 8'	9' to 12'	13' to 16'	17' to 20'	21' to 24'	25' to 28'	29' to 32'	33' to 36'	37' to 40'
1' to 2'	4	6	8	10	12	14	16	18	20	22
3' to 4'	6	11	14	17	20	23	26	29	32	35
5' to 6'	8	14	18	22	26	30	34	38	42	46
7' to 8'	10	18	23	28	33	38	43	48	53	58
9' to 10'	12	22	28	34	40	46	52	58	64	70
11' to 12'	14	25	32	39	46	53	60	67	74	81
13' to 14'	16	29	37	45	53	61	69	77	85	93
15' to 16'	18	33	42	51	60	69	78	87	96	105
17' to 18'	20	36	46	56	66	76	86	96	106	116
19' to 20'	22	40	51	62	73	84	95	106	117	128
21' to 22'	24	44	56	68	80	92	104	116	128	140
23' to 24'	26	47	60	73	86	99	112	125	138	151
25' to 26'	28	51	65	79	93	107	121	135	149	163
27' to 28'	30	55	70	85	100	115	130	145	160	175
29' to 30'	32	58	74	90	106	122	138	154	170	186
31' to 32'	34	62	79	96	113	130	147	164	181	198
33' to 34'	36	66	84	102	120	138	156	174	192	210
35' to 36'	38	69	88	107	126	145	164	183	202	221
37' to 38'	40	73	93	113	133	153	173	193	213	233
39' to 40'	42	77	98	119	140	161	182	203	224	245

Studs at 24” OC and Furring Channel at 24” OC.

WIDTH

HEIGHT	1' to 4'	5' to 8'	9' to 12'	13' to 16'	17' to 20'	21' to 24'	25' to 28'	29' to 32'	33' to 36'	37' to 40'
1' to 2'	4	7	9	11	13	15	17	19	21	23
3' to 4'	6	10	13	16	19	22	25	28	31	34
5' to 6'	8	14	18	22	26	30	34	38	42	46
7' to 8'	10	17	22	27	32	37	42	47	52	57
9' to 10'	12	21	27	33	39	45	51	57	63	69
11' to 12'	14	24	31	38	45	52	59	66	73	80
13' to 14'	16	28	36	44	52	60	68	76	84	92
15' to 16'	18	31	40	49	58	67	76	84	93	102
17' to 18'	20	35	45	55	65	75	85	95	105	115
19' to 20'	22	38	49	60	71	82	93	104	115	126
21' to 22'	24	42	54	66	78	90	102	114	126	138
23' to 24'	26	45	58	71	84	97	110	123	136	149
25' to 26'	28	49	63	77	91	105	119	133	147	161
27' to 28'	30	52	67	82	97	112	127	142	157	172
29' to 30'	32	56	72	88	104	120	136	152	168	184
31' to 32'	34	59	76	93	110	127	144	161	178	195
33' to 34'	36	63	81	99	117	135	153	171	189	207
35' to 36'	38	66	85	104	123	142	161	180	199	218
37' to 38'	40	70	90	110	130	150	170	190	210	230
39' to 40'	42	73	94	115	136	157	178	199	220	241

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