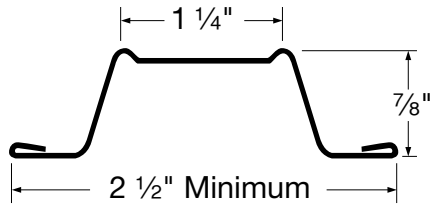


# Installation Guide and Safety Manual

## Resilmount A237R (Resilient Sound Isolation Clips)

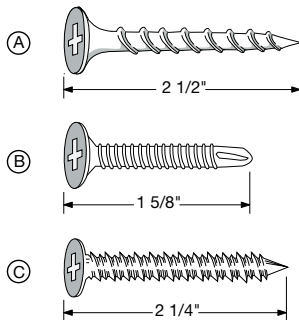
### REQUIRED FURRING CHANNEL



#### Where to find hat channel?

Call Dietrich Metal Framing to find a dealer near you 877-474-4052 x1

Ask for 25 gauge 7/8" Drywall Furring Channel (other names can be Hat Channel or HI Hat Channel). NOT Resilient Channel.



### REQUIRED FURRING CHANNEL\*

Gauge: .....25 Gauge With Hemmed Edge  
 (Do Not Use 20 Gauge Channel Under Any Circumstances)  
 Depth ..... 7/8" or 1 1/2"  
 Width Top ..... 1 1/4"  
 Width Bottom ..... 2 1/2" Minimum

All splices should overlap by 6" and be secured using two #8 self-tapping screws.

\*Required furring channel should be available at a local lumber yard, not Home Depot.

### FASTENERS

**DO NOT** fasten Sound Isolation Clips with nails. Use only approved screws

Wood: #8 x 2-1/2 inch minimum size coarse thread screw.  
 (Recommended #12 or #10 x 2-1/2 inch hex head)

Steel: #8 x 1-5/8 inch minimum size fine thread screw.  
 (Recommended #12 or #10 x 1-5/8 inch hex head)

Concrete or CMU: Min 1/4" x 2" drive spike,  
 1/4" x 2" Tapcon or 2" shoot in pin with washer,  
 Minimum 120lbs Sheer and Pullout.

### SOUNDPROOFING ACCESSORIES



Sealtight Outlet Pads



Silenseal Acoustic Sealant

Soundproofing Made Simple®

2900 WESTINGHOUSE BLVD SUITE 106  
 CHARLOTTE, NC 28273  
 704 / 504 / 1127 PH  
 704 / 504 / 1115 FX  
 888 / 666 / 5090 TOLL FREE  
 WWW.SOUNDISOLATIONCOMPANY.COM

## WALL INSTALLATION GUIDE

### NOTES

- Resilmount A237R shall not exceed 48 inches on center.
- Spacing between hat channels shall not exceed 24 inches.
- Fasten the Resilmount A237R to the substrate with a fastener approved for a minimum pull-out and shear of 120 lbs.
- Before determining your layout - the top row of clips must be within 6" of ceiling, the bottom row must be located so that base board can be attached to channel - not the studs. Remaining rows are spaced at 24" MAX.
- Hat Channels are installed horizontal to the floor.
- Install the drywall vertically from the bottom up leaving a 1/4" thick gap around perimeter of wall to be filled with acoustical caulk. Caulk around the entire perimeter of the gypsum board.

### STEP 1

Review Sound Isolation Company's layout guidelines before starting installation of walls or ceilings. (See page 7) We suggest installing the ceiling first, before installing the walls.

### STEP 2

Space Resilmount A237R so not to exceed 48" on center. Secure clips with a single fastener through the middle screw hole in clip. (Fig 2.1)

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" dia x 2-1/4" Tapcon or equal anchor

### STEP 3

Snap hat channel onto Resilmount A237R. (Fig 2.2)

### Optional Method for Steps 2 & 3 (When using 25 Gauge Furring Channel)



Snap clips onto furring channel. Hand slide clips to proper location on the furring channel before installing it on the wall. Once located on the wall use a 4 foot level to ensure you are installing the clips and channel horizontal and level. Fasten both ends of the clip to secure the channel.

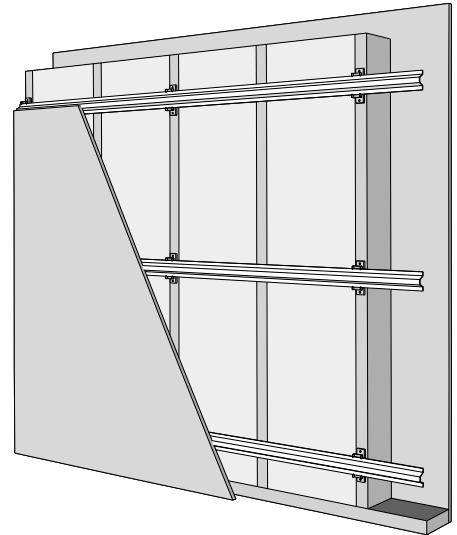


Figure 2.1: Screw clips into stud wall



Figure 2.2: Snap hat channel into clip



**STEP 4**

The floor shims are critical to ensure best results. Place 1/4" shims on the floor in front of sole plate (Fig 3.1). Install the first row of drywall vertically against the wall (Fig 3.2). Attach drywall to channel following local building codes.

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

**STEP 5**

Use acoustical caulk around the entire perimeter of each wall. (See Figure 3.3)

**LOAD SPECIFICATION FOR RESILMOUNT CLIP**

A237R Clips are designed to carry hat channel with one or more layers of gypsum wallboard attached. The load capacity of the clip depends on the number and spacing of clips used.

The maximum design load capacity for the A237R Clips in shear (wall application) or in tension (ceiling application) is as follows. Design load calculations are based on tested loading to failure where the furring channel deforms.

Standard Clip Spacing Load Capacity	2:1 safety factor	2.5:1 safety factor*
A237R with 25 gauge steel Hat Channel	45 lbs	36 lbs

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

Note: 5/8" thick gypsum wallboard weighs 2.3 lbs/sq ft.  
1/2" thick gypsum wallboard weighs 1.85 lbs/sq ft.

**Where to find hat channel?** Call Dietrich Metal Framing to find a dealer near you 877-474-4052 x1 Ask for 25 gauge 7/8" Drywall Furring Channel (other names can be Hat Channel or HI Hat Channel). NOT Resilient Channel.

**GENERAL INFORMATION**

All potential sound leaks such as gaps around outlets, windows, door frames, pipe penetrations, etc should be sealed with a non-hardening acoustical sealant or resilient putty.

See Sound Isolation Company's Sealtight Putty Pads, for even better results. Wall and ceiling assemblies and the specific construction requirements are listed at: [www.soundisolationcompany.com/sealtight](http://www.soundisolationcompany.com/sealtight)



Figure 3.1: Place shims on floor in front of base plate



Figure 3.2: Install drywall vertically to hat channels



Figure 3.3: Use Acoustical Caulk around the perimeter and edges

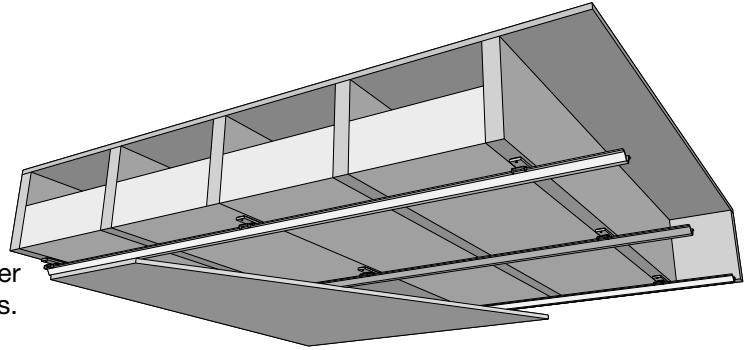


Figure 3.4: Tape and mud drywall

## CEILING INSTALLATION GUIDE

### NOTES

- Resilmount Clip shall not exceed 48" on center
- Spacing between hat channels shall not exceed 24"
- Fasten the Resilmount to the substrate with a fastener approved for a minimum pull-out and shear of 120lbs.
- Locate the first row of Resilmount Clips with 6" of the wall and within 6" of the opposite wall.
- Hat Channels are installed perpendicular to the joists
- Install the gypsum board leaving a 1/4" thick gap around perimeter to be filled with acoustical caulk.
- Caulk around the entire perimeter of the gypsum board.



### STEP 1

Review Sound Isolation Company's Resilmount Clip layout guidelines before starting installation of walls or ceilings. (See page 8 ) We suggest installing the ceiling first before installing the walls.

### STEP 2

Space Resilmount Clips so not to exceed 48" on center. Secure Resilmount Clips with a single fastener through the top screw hole in 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" dia x 2-1/4" Tapcon or equal anchor

### STEP 3

Secure with screw/anchor into floor joists. (See Figure 5.1)

Snap Hat Channel into Resilmount Clips. (See Figure 5.2)

### Optional Method for Steps 2 & 3 (When using 25 Gauge Furring Channel)



Snap clips onto furring channel. Hand slide clips to proper location on the furring channel before installing it on the ceiling. Once located on the ceiling use a 4 foot level to ensure you are installing the clips and channel horizontal and level. Fasten both ends of the clip to secure the channel.



Figure 5.1: Screw A237R into joists

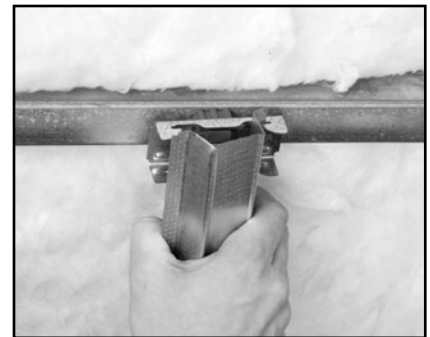


Figure 5.2: Snap Hat Channel into Clip



**Walls & Ceilings Usage (7/8" hat channel, 24" o.c.)**

	1-4'	5-8'	9-12'	13-16'	17-20'	21-24'	25-28'	29-32'	33-36'	37-40'
1'-3'	4	6	8	10	12	14	16	18	20	22
3'-5'	6	9	12	15	18	21	24	27	30	33
5'-7'	8	12	16	20	24	28	32	36	40	44
7'-9'	10	15	20	25	30	35	40	45	50	55
9-11'	12	18	24	30	36	42	48	54	60	66
11-13'	14	21	28	35	42	49	56	63	70	77
13-15'	16	24	32	40	48	56	64	72	80	88
15-17'	18	27	36	45	54	63	72	81	90	99
17-19'	20	30	40	50	60	70	80	90	100	110
19-21'	22	33	44	55	66	77	88	99	110	121
21-23'	24	36	48	60	72	84	96	108	120	132
23-25'	26	39	52	65	78	91	104	117	130	143
25-27'	28	42	56	70	84	98	112	126	140	154
27-29'	30	45	60	75	90	105	120	135	150	165
29-31'	32	48	64	80	96	112	128	144	160	176
31-33'	34	51	68	85	102	119	136	153	170	187
33-35'	36	54	72	90	108	126	144	162	180	198
35-37'	38	57	76	95	114	133	152	171	190	209
37-39'	40	60	80	100	120	140	160	180	200	220
39-41'	42	63	84	105	126	147	168	189	210	231

**Walls & Ceilings Usage (7/8" hat channel, 16" o.c.)**

	1 - 4'	5 - 8'	9 - 12'	13 - 16'	17 - 20'	21 - 24'	25 - 28'	29 - 32'	33 - 36'	37 - 40'
1' - 2' 4"	4	6	8	10	12	14	16	18	20	22
2' 4" - 4'	8	12	16	20	24	28	32	36	40	44
4' - 5' 4"	10	15	20	25	30	35	40	45	50	55
5' 4" - 6' 7"	12	18	24	30	36	42	48	54	60	66
6' 7" - 8'	14	21	28	35	42	49	56	63	70	77
8' - 9' 4"	16	24	32	40	48	56	64	72	80	88
9' 4" - 10' 7"	18	27	36	45	54	63	72	81	90	99
10' 7" - 12'	20	30	40	50	60	70	80	90	100	110
12' - 13' 4"	22	33	44	55	66	77	88	99	110	121
13' 4" - 14' 7"	24	36	48	60	72	84	96	108	120	132
14' 7" - 16'	26	39	52	65	78	91	104	117	130	143
16' - 17' 4"	28	42	56	70	84	98	112	126	140	154
17' 4" - 18' 7"	30	45	60	75	90	105	120	135	150	165
18' 7" - 20'	32	48	64	80	96	112	128	144	160	176
20' - 21' 4"	34	51	68	85	102	119	136	153	170	187
21' 4" - 22' 7"	36	54	72	90	108	126	144	162	180	198
22' 7" - 24'	38	57	76	95	114	133	152	171	190	209
24' - 25' 4"	40	60	80	100	120	140	160	180	200	220
25' 4" - 26' 7"	42	63	84	105	126	147	168	189	210	231
26' 7" - 28'	44	66	88	110	132	154	176	198	220	242
28' - 29' 4"	46	69	92	115	138	161	184	207	230	253
29' 4" - 30' 7"	48	72	96	120	144	168	192	216	240	264
30' 7" - 32'	50	75	100	125	150	175	200	225	250	275
32' - 33' 4"	52	78	104	130	156	182	208	234	260	286
33' 4" - 34' 7"	54	81	108	135	162	189	216	243	270	297
34' 7" - 36'	56	84	112	140	168	196	224	252	280	308
36' - 37' 4"	58	87	116	145	174	203	232	261	290	319
38' 4" - 40'	60	90	120	150	180	210	240	270	300	330

**Disclaimer:** These application notes represent the accepted procedures for successful installation. These suggestions may be followed, modified, or rejected by the owner, engineer, contractor, and/or their respective representative(s) since they, not Sound Isolation Company, are responsible for planning and executing procedures appropriate to a specific application. Sound Isolation Company reserves the right to alter these suggestions and encourages contact with the factory or its representatives to review any possible modification to these application notes prior to commencing installation. It is the responsibility of the owner, engineer, contractor, and/or their respective representative(s) to ensure that installation meets all applicable Building Codes. There is no performance warranty expressed or implied for any particular project or installation.