INSTALLATION GUIDE

Resilient Sound Isolation Clip (RSIC-1)

The following installation instructions are given as a general guide to avoid common errors. Installer should follow best practices for construction and workmanship. Acoustical Solutions bears no responsibility for installation or contractor selection. Please contact a sales representative if you have questions, concerns or specific project requirements.

Be sure to inspect materials upon delivery. Please note any damage on the delivery ticket and notify Acoustical Solutions immediately. Materials should be stored in original packing in a clean, climate controlled environment free of moisture. Installation should not commence until building is enclosed and under standard occupancy conditions and surfaces are of acceptable condition and properly prepared. Do not install materials of unacceptable quality.



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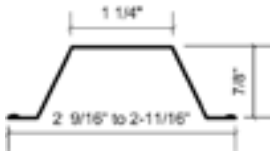
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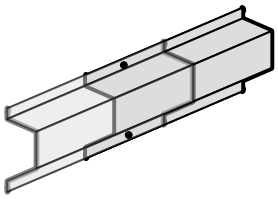
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Drywall Furring Channel

- **Minimum Requirements:** 25 gauge, hemmed edge detail required on all 25 gauge furring channel. Meets or exceeds SFIA requirements.
- **Depth:** ⅞"
- **Width Bottom:** 2⁹⁄₁₆" to 2¹¹⁄₁₆" inch wide nominal.
- **Width Top:** 1¼" wide

Splice drywall furring channel (hat track) with 6 inch overlap in mid span (between two clips) secure with 18 ga. tie wire, or two ⁷⁄₁₆" framing screws.

Drywall Furring Channel Overlap:

- Overlap drywall furring channel mid span in between RSIC clips and fasten together with 2 Steel framing screws



Resilient Sound Isolation Clip (RSIC-1)

- **Maximum Spacing:** 48 inches on center
- **Maximum Acoustical Design Load:** 36 lbs

RSIC-1 Dimensions:

- RSIC-1 clip 3” tall
- RSIC-1 clip 1¼” deep
- RSIC-1 and drywall furring channel 1-5/8” deep

Fasteners:

- **RSIC-1 to Wood:** #8 x 2½" minimum size coarse thread screw (Recommended #12 or #10 x 2½" hex head)
- **RSIC-1 to Steel:** # 8 x 1-5/8 inch minimum size fine thread screw.(Recommended #12 or #10 x 1⅝" hex head)
- DO NOT fasten Resilient Sound Isolation Clips (RSIC-1) to framing members with nails. Use only approved screws.

Average Labor Rates:

- RSIC-1: 72 clips per man hour
- Drywall Furring Channel: 550LF per man hour

Labor rates provided by an independent contracting firm.

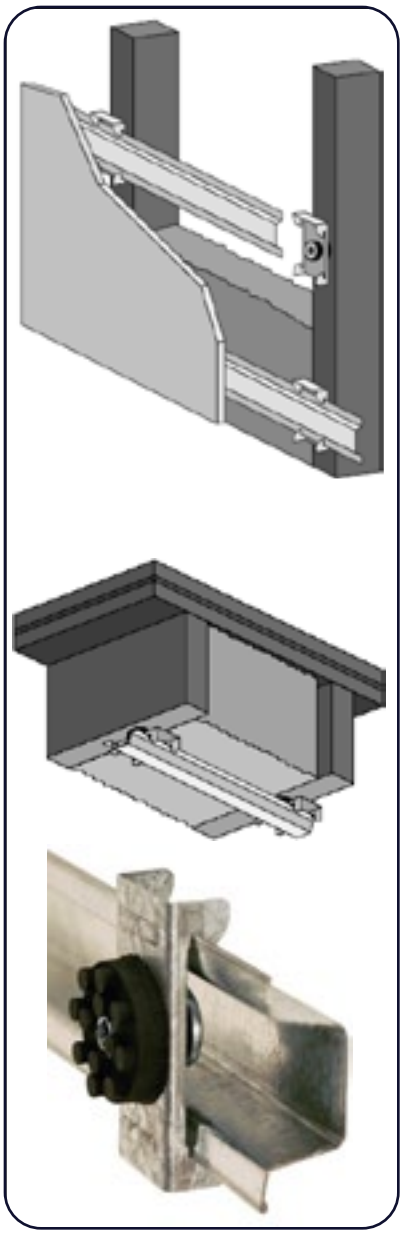
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INSTALLATION GUIDE

Resilient Sound Isolation Clip (RSIC-1)



Walls: One & Two Layers of 5/8" Gypsum Board

- Resilient Sound Isolation Clips (RSIC-1) shall be 48" maximum on center (horizontal).
- Fasten the Resilient Sound Isolation Clip (RSIC-1) to the substrate with a fastener approved for a minimum pull-out and sheer of 120 lbs.
- Ensure the internal metal ferrule is tight to the substrate.
- Locate the first row of RSIC-1 clips within 3" from the floor and within 6" from the ceiling.
- Snap in the drywall furring channel (hat track) into the RSIC-1 clips (horizontal for walls). (see page 2 for splice details)
- Place ¼" (minimum) shim on floor to fully support the gypsum board.
- Install the first layer of ⅝" board to the channel using a 1⅛" fine thread drywall screw with point to 1¼". Install the second layer of ⅝" board using a 1⅝" fine thread drywall screw with point to 2".
- Install the gypsum board from the bottom up leaving a ¼" min. gap around the perimeter of the wall.
- ONLY remove the shims after ALL the gypsum board is completely screwed to ALL the drywall furring channels. Make sure every screw (floor to ceiling and wall to wall) is installed as required by the assembly design, in every layer of gypsum board before removing the shims at the floor. The shims are critical to ensure best results.
- Caulk around the entire perimeter of the gypsum board. Use fire and smoke rated acoustical sealant where required.

Ceilings: One & Two Layers of 5/8" Gypsum Board

- Resilient Sound Isolation Clips (RSIC-1) shall be 48" maximum on center.
- Fasten the Resilient Sound Isolation Clip (RSIC-1) to the substrate with a fastener approved for a minimum pull-out and sheer of 120 lbs.
- Ensure the internal metal ferrule is tight to the substrate.
- Locate the first row of RSIC-1 clips within 8" of the wall at each end of a run.
- Snap in the drywall furring channel (hat track) into the RSIC-1 clips.
- Install the first layer of ⅝" board to the channel using a 1⅛" fine thread drywall screw with point to 1¼". Install the second layer of ⅝" board using a 1⅝" fine thread drywall screw with point to 2".
- Install the gypsum board from leaving a ¼" min. gap around the perimeter of the ceiling.
- Caulk around the entire perimeter of the gypsum board. Use fire and smoke rated acoustical sealant where required.

General Information:

- Resilient Sound Isolation Clip (RSIC-1), furring channel (hat track) and gypsum board shall not carry heavy loads such as cabinets, bookshelves, dropped ceilings, light fixtures, speakers, televisions, headboards, or floating vanities.
- 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.
- When attaching the RSIC-1 clips to a steel stud the minimum allowable thickness is 20 ga. (0.030).

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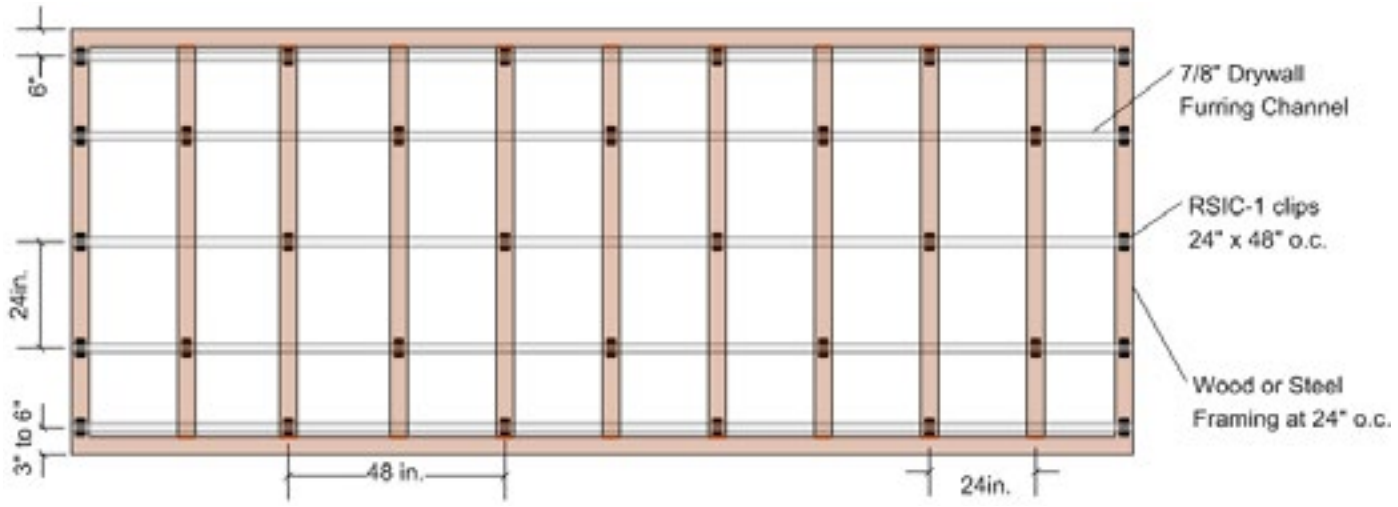
INSTALLATION GUIDE

Resilient Sound Isolation Clip (RSIC-1)

Application Recommendations for Walls And Ceilings, Wood or Steel Framing

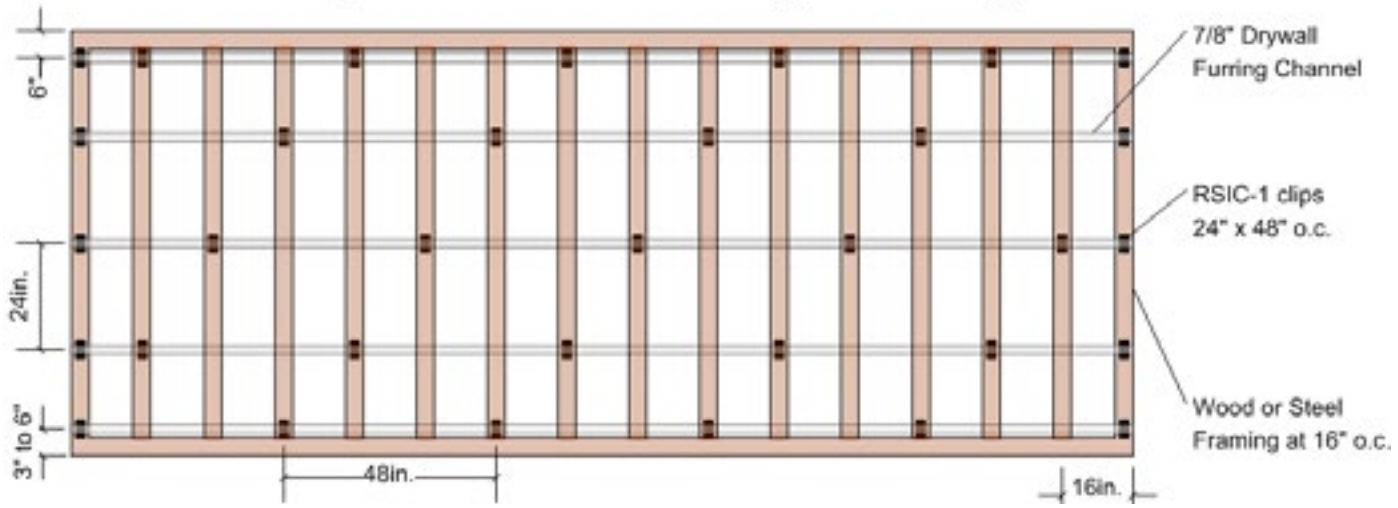
RSIC-1 Wall or Ceiling System Framing at 24" O.C.

RSIC-1 clips at 24" or 48" O.C. 1 or 2 Layers of ⅝" Gypsum Board



RSIC-1 Wall or Ceiling System Framing at 16" O.C.

RSIC-1 clips at 24" or 48" O.C. 1 or 2 Layers of ⅝" Gypsum Board



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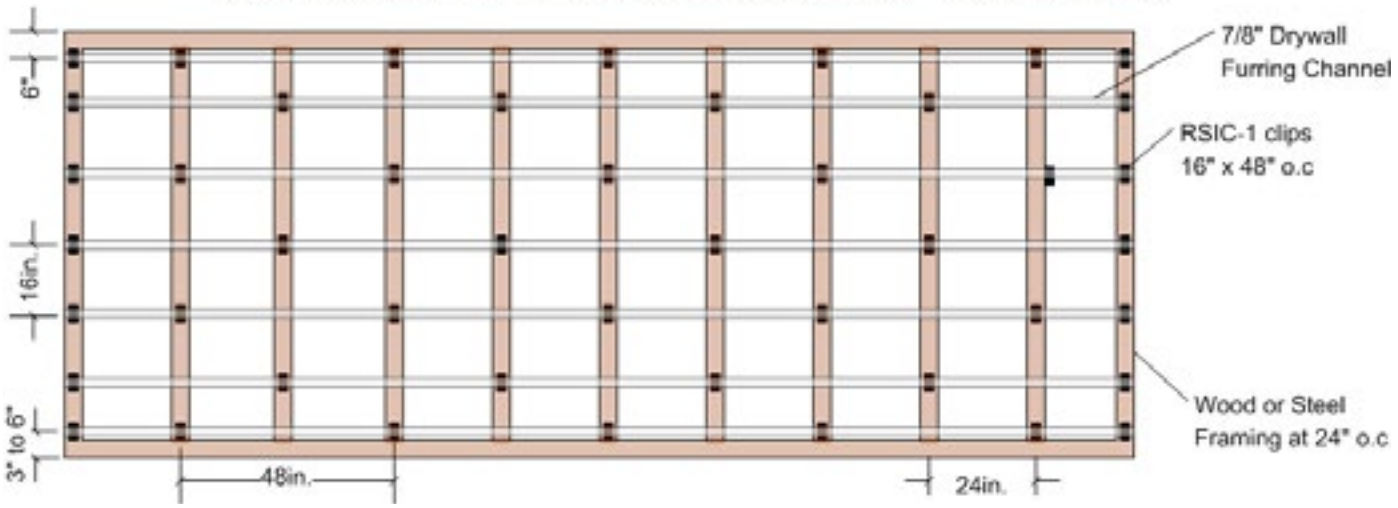
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Resilient Sound Isolation Clip (RSIC-1)

Application Recommendations for Walls And Ceilings, Wood or Steel Framing

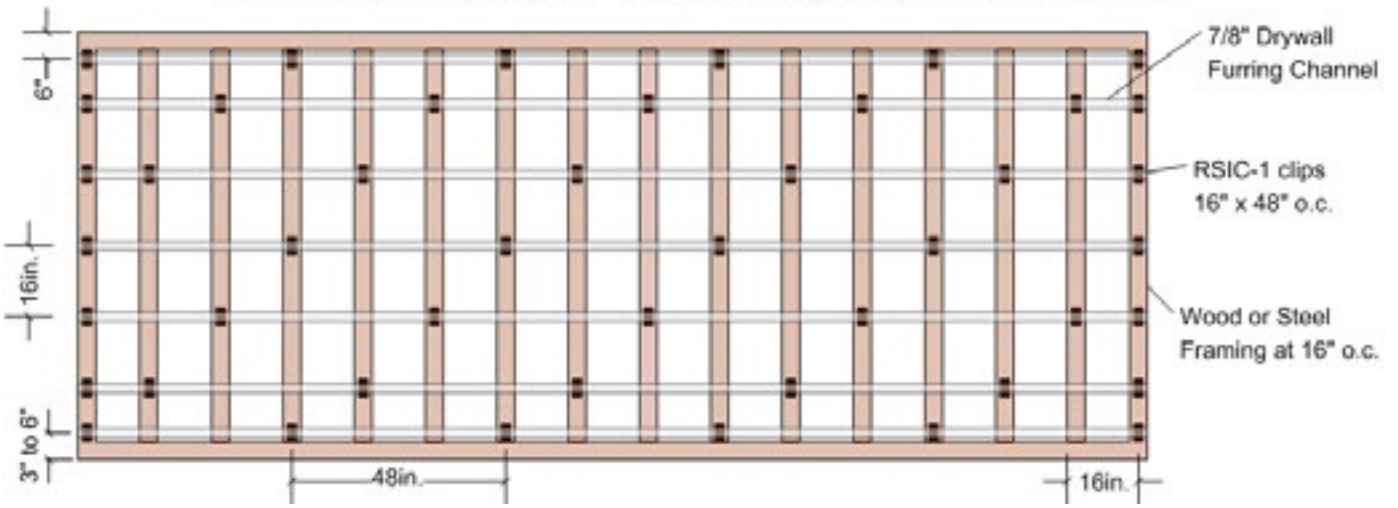
RSIC-1 Wall or Ceiling System Framing at 24" O.C.

RSIC-1 clips at 16" or 48" O.C. 3 Layers of ⅝" Gypsum Board



RSIC-1 Wall or Ceiling System Framing at 16" O.C.

RSIC-1 clips at 24" or 48" O.C. 3 Layers of ⅝" Gypsum Board



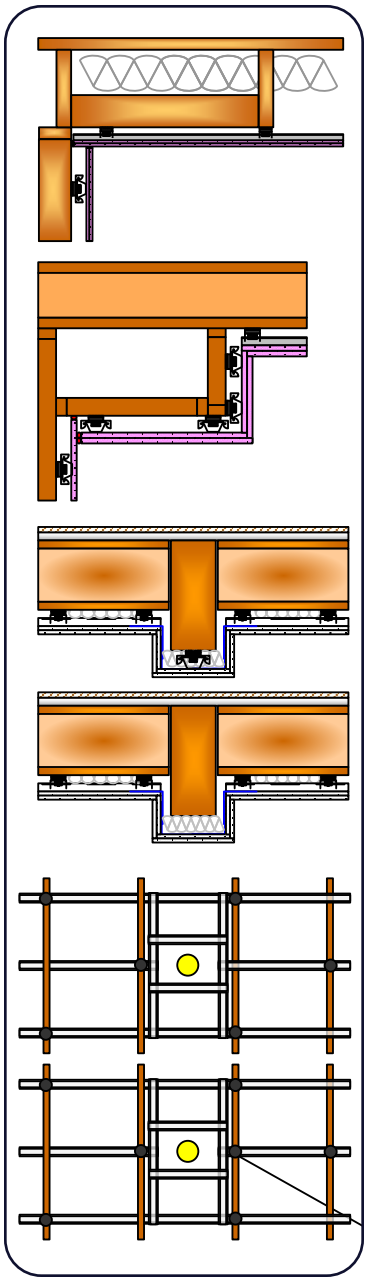
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Resilient Sound Isolation Clip (RSIC-1)

RSIC Clips Additional Details



RSIC-1 Clip Added Blocking When There is Not a Joist Within 6" of the End of the Ceiling

- Add min 2' x 4' blocking that travels from joist to head of wall, or joist to joist to support RSIC-1 clips within 6" of the end of the ceiling.

RSIC Clip Soffit Installation:

- Soffits should be hard framed and RSIC clips installed to the outside of the soffit frame to support the gypsum board.

RSIC Clip Beam Installation

- Beams can be floated with 90 deg. angle or supported with a single run of RSIC clips and channel at the lowest point.

RSIC Clip Transition or Interruption Installation:

- The furring channel may be interrupted by HVAC, Light Fixtures, Sprinkler heads, or other items that need to penetrate the ceiling.
- The furring channel may be trimmed to allow this interruption when stringbacks are placed perpendicular to the main runs of channel and are supported by the adjacent furring channel runs, and the interruption is box framed using drywall furring channel.
- Additional RSIC-1 clips may be added to support the additional weight of a light box or light fixture. Add one RSIC-1 clip for every 36 lbs added to the ceiling at those locations.

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Resilient Sound Isolation Clip (RSIC-1)

Estimated RSIC Clip Usage for Walls and Ceilings, Wood or Steel Framed (Spacing at 24" x 48" 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

Note: Add 4 RSIC-1 at each drywall butt joint condition for optimum acoustical and UL Fire Resistive assembly compliances. See UL Fire Resistive Design specifications.

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Resilient Sound Isolation Clip (RSIC-1)

Estimated RSIC Clip Usage for Walls and Ceilings, Wood or Steel Framed (Spacing at 16" x 48" O.C.)

	1~4'	5~8	9~12	13~16	17~20	21~24	25~28	29~32	33~36	37~40
1~1.3'	4	6	8	10	12	14	16	18	20	22
1.3~2.6	6	9	12	15	18	21	24	27	30	33
2.6~4	8	12	16	20	24	28	32	36	40	44
4~5.3	10	15	20	25	30	35	40	45	50	55
5.3~6.6	12	18	24	30	36	42	48	54	60	66
6.6~8	14	21	28	35	42	49	56	63	70	77
8~9.3	16	24	32	40	48	56	64	72	80	88
9.3~10.6	18	27	36	45	54	63	72	81	90	99
10.6~12	20	30	40	50	60	70	80	90	100	110
12~13.3	22	33	44	55	66	77	88	99	110	121
13.3~14.6	24	36	48	60	72	84	96	108	120	132
14.6~16	26	39	52	65	78	91	104	117	130	143
16~17.3	28	42	56	70	84	98	112	126	140	154
17.3~18.6	30	45	60	75	90	105	120	135	150	165
18.6~20	32	48	64	80	96	112	128	144	160	176
20~21.3	34	51	68	85	102	119	136	153	170	187
21.3~22.6	36	54	72	90	108	126	144	162	180	198
22.6~24	38	57	76	95	114	133	152	171	190	209
24~25.3	40	60	80	100	120	140	160	180	200	220
25.3~26.6	42	63	84	105	126	147	168	189	210	231
26.6~28	44	66	88	110	132	154	176	198	220	242
28~29.3	46	69	92	115	138	161	184	207	230	256
29.3~30.6	48	72	96	120	144	168	192	216	240	264
30.6~32	50	75	100	125	150	175	200	225	250	275
32~33.3	52	78	104	130	156	182	208	234	260	286
33.3~34.6	54	81	108	135	162	189	216	243	270	297
34.6~36	56	84	112	140	168	196	224	252	280	308
36~37.3	58	87	116	145	174	203	232	261	290	319
37.3~38.6	60	90	120	150	180	210	240	270	300	330
38.6~40	62	93	124	155	186	217	248	279	310	341
40~341.3	64	96	128	160	192	224	256	288	320	352

Note: Add 4 RSIC-1 at each drywall butt joint condition for optimum acoustical and UL Fire Resistive assembly compliances. See UL Fire Resistive Design specifications.

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Resilient Sound Isolation Clip (RSIC-1)



The RSIC-1 is the first and only product classified by UL for both fire and sound.

Warranty Disclaimer And Liability Limitation Language

No Express or Implied Warranties

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Model for Demonstration Purposes Only

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No Warranty or Compliance with Safety Code or Regulation

SELLER DOES NOT WARRANT THAT ANY OF THE GOODS SOLD WILL MEET OR COMPLY WITH THE REQUIREMENTS OF ANY SAFETY CODE, BUILDING OR DWELLING CODE, OR REGULATION OF ANY STATE, MUNICIPALITY OR OTHER JURISDICTION.

Nevada Law Applies

SELLER AND BUYER AGREE THAT ALL ASPECTS OF THIS TRANSACTION INCLUDING THE APPLICABLE STATUTE OF LIMITATIONS SHALL BE GOVERNED BY THE INTERNAL LAW OF THE STATE OR NEVADA, AND NOT THE LAWS OF CONFLICTS. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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