RSIC-1 INSTALLATION GUIDE

RSIC-1 SOUND ISOLATION CLIP

- **Wood**
- **Steel**

RSIC-1

Second Skin Audio Tel: (800) 679-8511 Website: www.secondskinaudio.com

Second Skin Audio 1859 Lindbergh St, Ste. 200 Charlotte, NC 28208 • (800) 679-8511

RSIC-1 INSTALLATION GUIDE

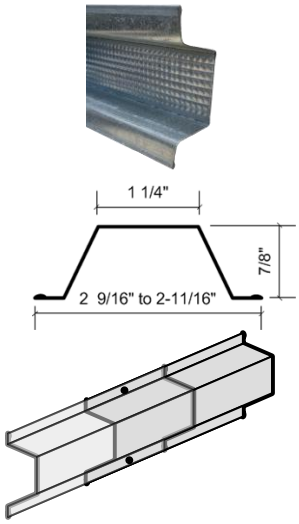
RSIC-1 SOUND ISOLATION CLIP

Resilient Sound Isolation Clip (RSIC-1)

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

RSIC-1 Dimensions:

- RSIC-1 clip 3” tall
- RSIC-1 clip 1-1/4” deep
- RSIC-1 and drywall furring channel 1-5/8” deep



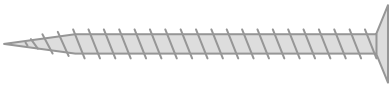
Drywall Furring Channel:

- **Furring Channel:** 25 gauge, hemmed edge detail required on all furring channel. Meets or exceeds SFIA and SSMA requirements.
- **Depth:** 7/8 inch
- **Width Bottom:** 2-9/16” to 2-11/16” inch wide nominal.
- **Width Top:** 1-1/4 inch wide
- **Max spacing:** 24 inches oc.

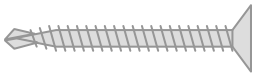
Splice drywall furring channel (hat track) with 6 inch overlap in mid span (between two clips) secure with 18 ga tie wire, or two 7/16” framing screws.

Drywall Furring Channel Overlap:

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



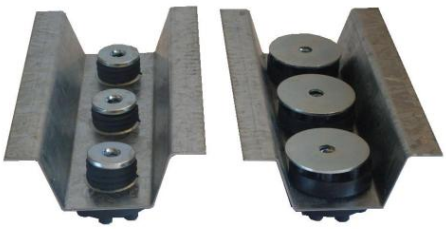
2-1/2” min



1-5/8" min

Fasteners:

- RSIC-1 to wood: #8 x 2-1/2 inch min.
- Optional: RSIC-1 to wood: #10 or #12 x 2-1/2 inch min.
- RSIC-1 to Steel: # 8 x 1-5/8 inch min.
- Optional: RSIC-1 to Steel: #10 or #12 x 1-5/8 inch min.



RSIC-Backer RSIC-Backer HD

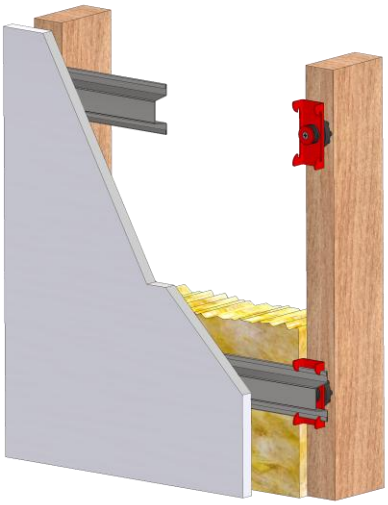
Mounting Heavy Items:

RSIC-1 Backer must be used when mounting heavy items on walls.

- Cabinets
- Handrails
- Grab bars
- Lockers
- Headboards
- Chalkboards
- Medical devices
- TVs

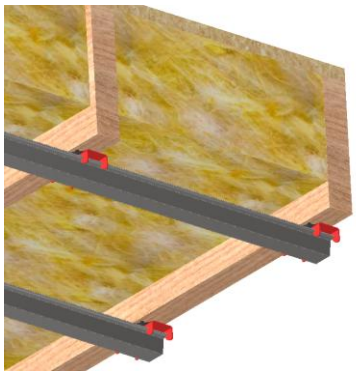
RSIC-1 INSTALLATION GUIDE

RSIC-1 SOUND ISOLATION CLIP



WALLS: One and Two Layers of 5/8" Gypsum Board

- Resilient Sound Isolation Clips (RSIC-1) shall be 48 x 24 inches 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 inches from the floor and within 6 inches 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) Channel max spacing 24 inches oc.
- Place 1/4" (minimum) shim on floor to fully support the gypsum board.
- Install the gypsum board from the bottom up leaving a 1/4" 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 and Two Layers of 5/8" Gypsum Board

- Resilient Sound Isolation Clips (RSIC-1) shall be 48 x 24 inches 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 inches of the wall at each end of a run.
- Snap in the drywall furring channel (hat track) into the RSIC-1 clips. Channel max spacing 24 inches oc.
- Install the gypsum board from leaving a 1/4" 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:

- Refer to www.UL.com for complete installation details on all fire resistive assembly designs.
- 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).

Fire Test Information:

Approved for use in over 150 different UL fire resistive design assemblies.
Contact us for the latest updates of the fire testing approvals
Check UL Fire Resistance Directory File # R16638
Check UL's web pages. **www.ul.com/database**
Contact UL (877) UL– HELPS

Second Skin Audio Tel: (800) 679-8511 Website: www.secondskinaudio.com

RSIC-1 INSTALLATION GUIDE

RSIC-1 SOUND ISOLATION CLIP

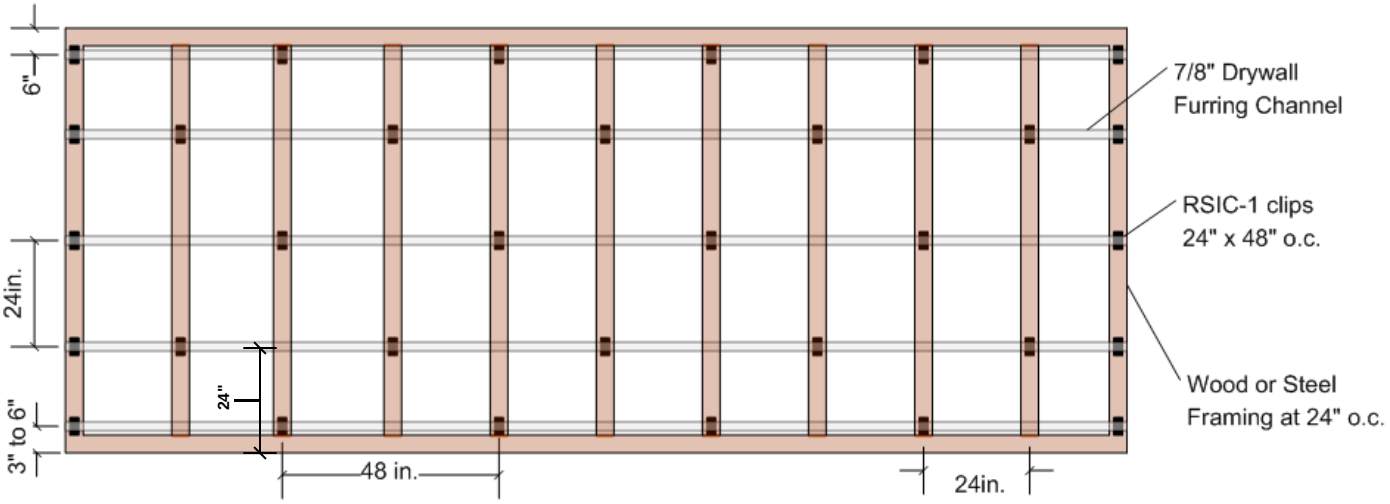
APPLICATION RECOMMENDATIONS FOR WALLS AND CEILINGS, WOOD OR STEEL FRAMING

INSTALLING RESILIENT SOUND ISOLATION CLIPS (RSIC-1)

RSIC CLIPS AT 24” OC.

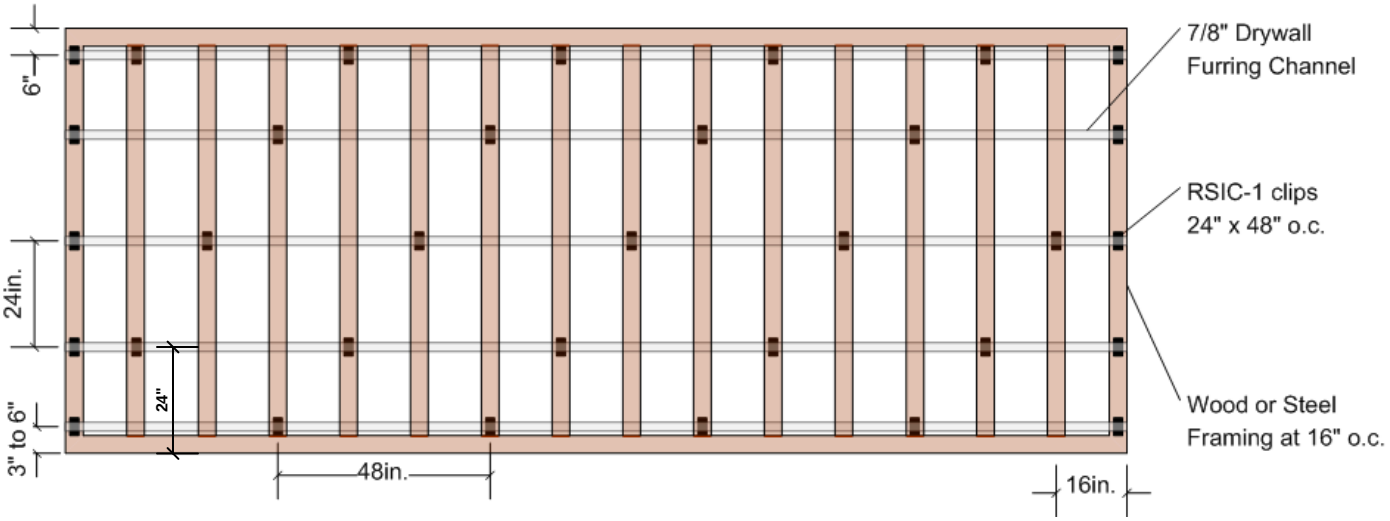
RSIC-1 Wall or Ceiling System Framing at 24" o.c.

RSIC-1 clips at 24" x 48" o.c. 1 or 2 Layers of 5/8" Gypsum Board



RSIC-1 Wall or Ceiling System Framing at 16" o.c.

RSIC-1 clips at 24" x 48" o.c. 1 or 2 Layers of 5/8" Gypsum Board



RSIC-1 INSTALLATION GUIDE

RSIC-1 SOUND ISOLATION CLIP

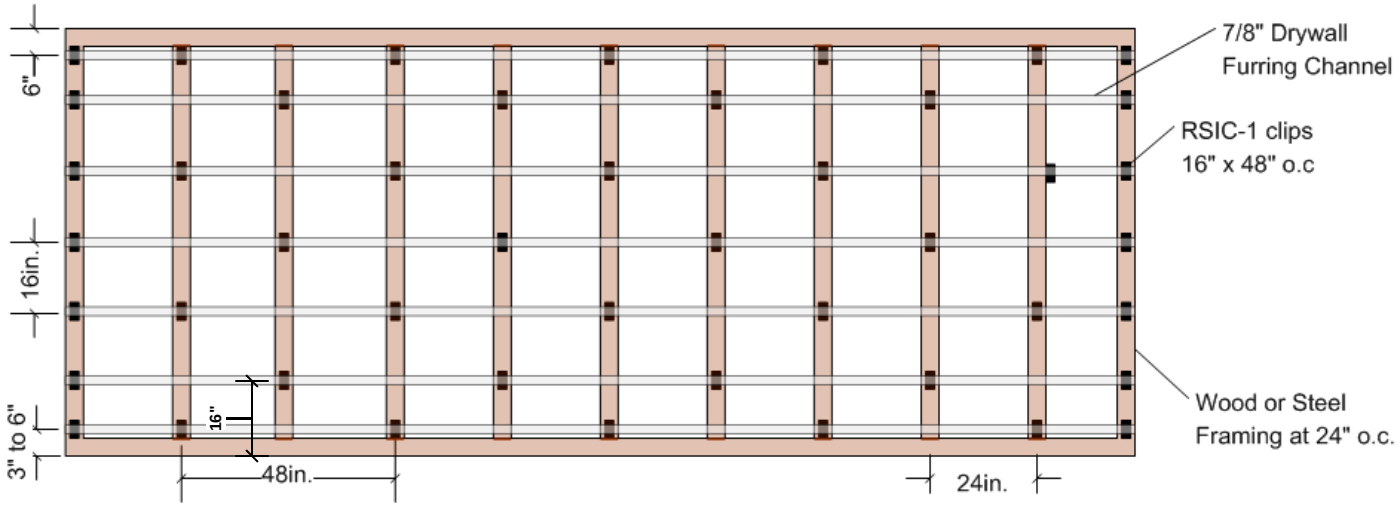
APPLICATION RECOMMENDATIONS FOR WALLS AND CEILINGS, WOOD OR STEEL FRAMING

INSTALLING RESILIENT SOUND ISOLATION CLIPS (RSIC-1)

RSIC CLIPS AT 16” OC.

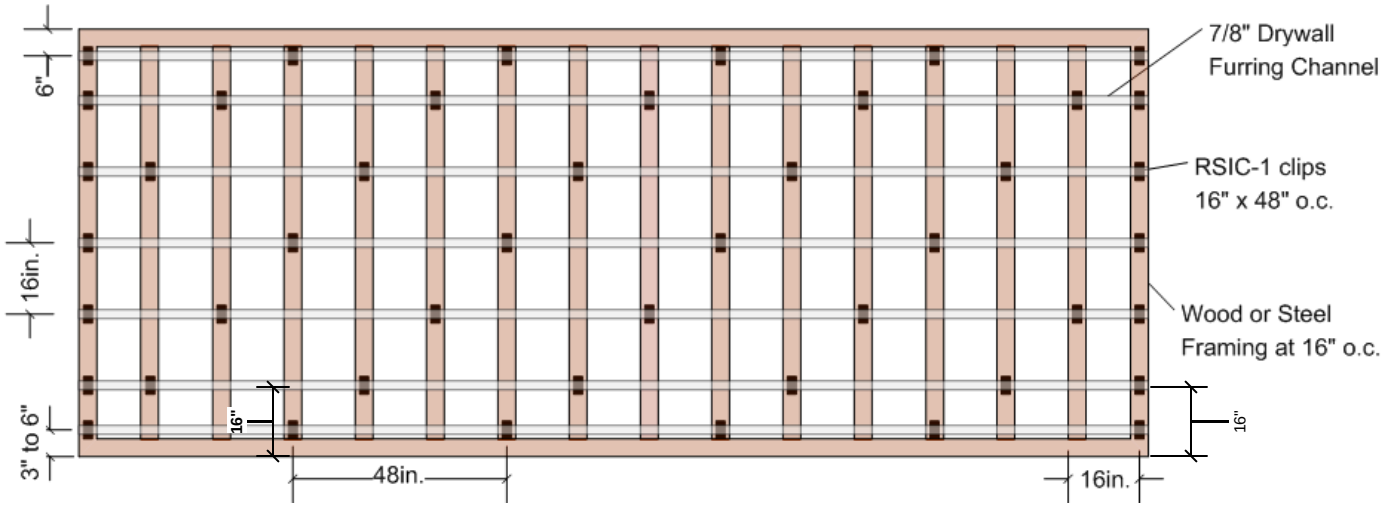
RSIC-1 Wall or Ceiling System Framing at 24" o.c.

RSIC-1 clips at 16" x 48" o.c. 3 Layers of 5/8" Gypsum Board



RSIC-1 Wall or Ceiling System Framing at 16" o.c.

RSIC-1 clips at 16" x 48" o.c. 3 Layers of 5/8" Gypsum Board



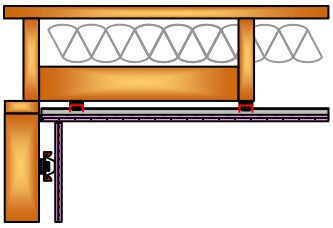
RSIC-1 INSTALLATION GUIDE

RSIC-1 SOUND ISOLATION CLIP

APPLICATION RECOMMENDATIONS FOR WALLS AND CEILINGS, WOOD OR STEEL FRAMING

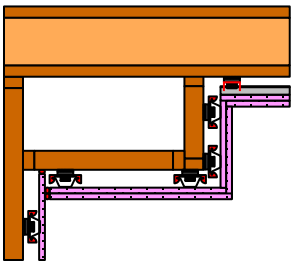
INSTALLING RESILIENT SOUND ISOLATION CLIPS (RSIC-1)

RSIC CLIPS ADDITIONAL DETAILS



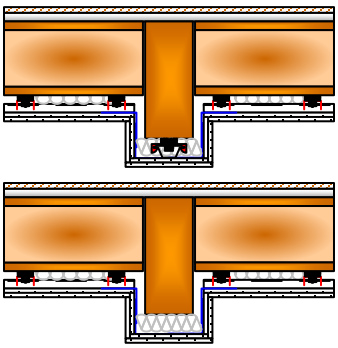
RSIC-1 clip Added blocking when there is not a joist within 6" of the end of the ceiling.

- 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.



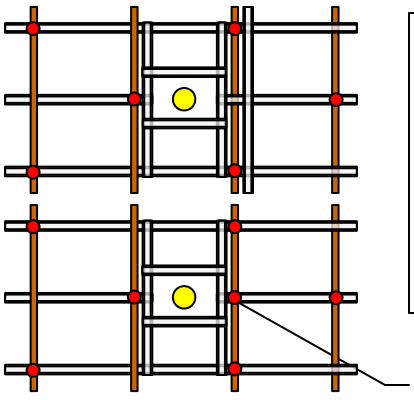
RSIC clip Soffit installation:

- Soffits should be hard framed and RSIC clips instalaled 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.



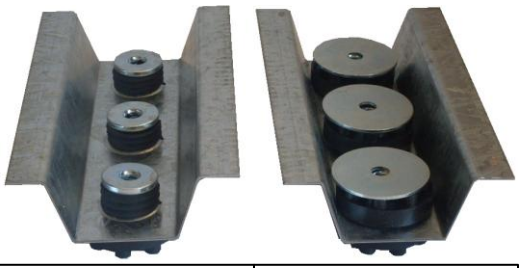
RSIC clip Transition or interruption installation:

- 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 location

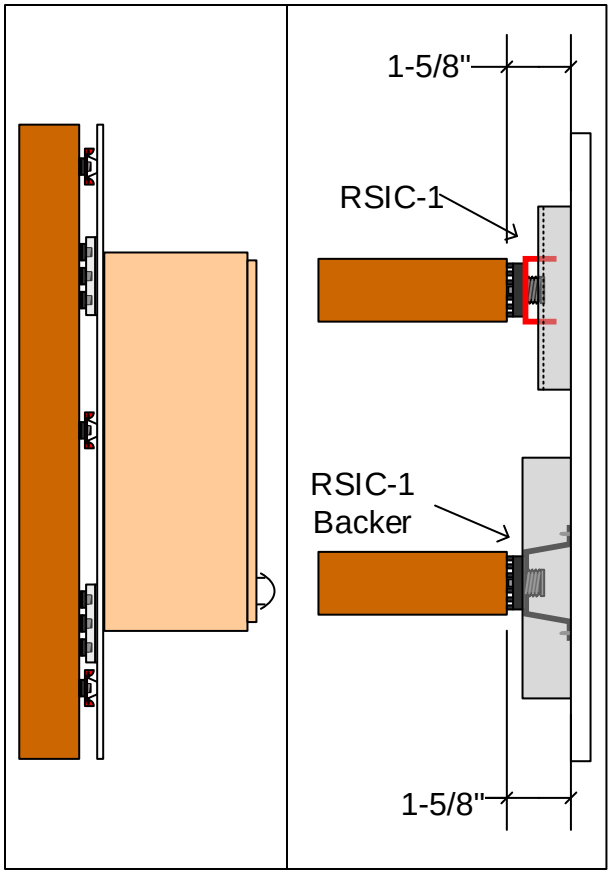
RSIC-1 INSTALLATION GUIDE

RSIC-1 BACKER SOUND ISOLATION CLIP

REQUIRED RSIC-1 ACCESSORY FOR MOUNTING HEAVY ITEMS



RSIC-Backer	RSIC-Backer HD



**RSIC is the Low Cost, High Performance,
Noise control Solution**

RSIC-Backer
RSIC-Backer HD

The RSIC-Backer series is a heavy duty mount used together with the RSIC-1 clips, creating the only complete noise isolation system that can support heavy items. The RSIC-Backer can be used in new construction or retrofit. The RSIC-Backer should be used when items need to be acoustically decoupled for noise and vibration isolation.

A few examples of the possible uses for the RSIC-Backer series of noise control clips: Cabinets, Chalk boards, Projector screens, Handicap grab bars, Lockers, TV wall mount support, Handrails, Library Shelves.

RSIC-Backer specifications:	
Acoustical design load: STD	108 Lbs
Acoustical design load: HD	216 Lbs
Total deflection	3 mm
Double deflection	Yes (1.5 mm)
Low VOC	Yes
Adjustable	No
Cavity min	1-5/8"
Cavity Max	1-5/8"
Adjustment limit	N/A
Use on Ceilings	Yes
Use on walls	Yes
New Construction	Yes
Assembled in USA	Yes

RSIC-1 INSTALLATION GUIDE

RSIC-1 SOUND ISOLATION CLIP

RSIC-1

RSIC-1 Clip UL Assemblies approved for use.

CIKV.R16638

Types RSIC-1 and RSIC-1 (2.75) for use in Design Nos. G501, G502, G503, G504, G505, G507, G510, G512, G524, G525, G534, G551, G552, G561, G565, G578, G552, G565, L502, L505, L510, L511, L513, L514, L516, L518, L521, L523, L528, L532, L534, L542, L546, L547, L550, L562, L563, L569, L570, L573, L574, L576, L579, L582, L587, L589, L590, L593, M501, M502, M506, M508, M509, M510, M514, M531, P519, P522, P538, P545, P556, P571, U301, U305, U309, U311, U320, U331, U334, U340, U341, U342, U344, U356, U411, U415, U417, U419, U421, U423, U440, U451, U453, U455, U465, U473, U493, U524, U910, U914, V310, V323, V324, V438, V455, V469, V478, V481, V488, V489, V490, V496, V498, W419, W425, W440, W445.

Type RSIC-1 also Classified in accordance with ASTM E90-99, "Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements". See Design Nos. G505, U305, U334, V310, for STC rating.

Type RSIC-1 also Classified in accordance with ASTM E492-96, "Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine". See Design No. G505 for IIC rating.

Types RSIC-1 and/or RSIC-1 (2.75) for use in Joint System Nos. HW-D-0060, HW-D-1011.