

THE RSIC-1 SOUND ISOLATION CLIP

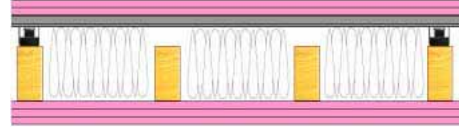
RSIC-1 wall assemblies vs. Generic wall assemblies

The RSIC-1 wall systems give you a higher performing wall, while saving you money and reducing the wall thickness. The RSIC-1 wall systems are the highest performing wall systems per dollar spent.

RSIC-1 WOOD WALL ASSEMBLIES 1 & 2 HOUR:

STC 63

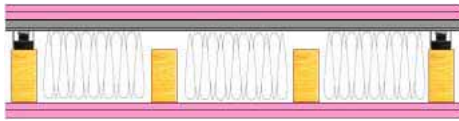
2x4 stud wall, RSIC-1, Drywall furring channel, R-19 insulation, 2 layers one side, 3 layers other side 5/8" gypsum board



UL U301, U305, U309, U311, U331, U334

STC 62

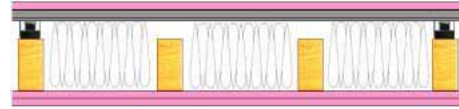
2x4 stud wall, RSIC-1, Drywall furring channel, R-19 insulation, 2 layers 5/8" gypsum board each side



UL U301, U305, U309, U311, U331, U334

STC 60

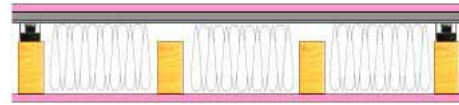
2x4 stud wall, RSIC-1, Drywall furring channel, R-19 insulation, 1 layer 5/8" gypsum board, 2 layers 5/8" gypsum board



UL U305 U309 U311 U331

STC 56

2x4 stud wall, RSIC-1, Drywall furring channel, 3.5" insulation, 1 layer 5/8" gypsum board each side

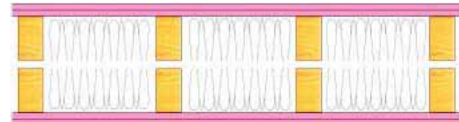


UL U305 U309 U311 U331

GENERIC WOOD WALL SYSTEMS

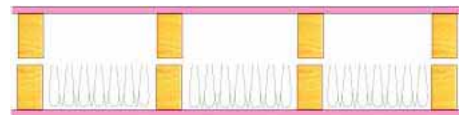
STC 59

2x4 double stud wall, 3.5" insulation, 2 layers 5/8" gypsum board each side



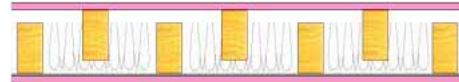
STC 56

2x4 double stud wall, 3.5" insulation, 1 layer 5/8" gypsum board each side



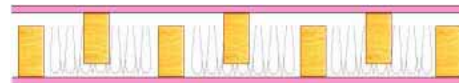
STC 51

2x4 stagger stud wall, RC-1 channel, 3.5" insulation, 1 layer 5/8" gypsum board each side



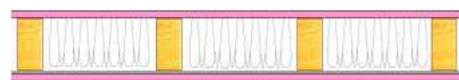
STC 47

2x4 stagger stud wall, 3.5" insulation, 1 layer 5/8" gypsum board each side



STC 46

2x4 stud wall, RC-1 channel, 3.5" insulation, 1 layer 5/8" gypsum board each side



STC 36

2x4 stud wall, 3.5" insulation, 1 layer 5/8" gypsum board each side



THE RSIC-1 SOUND ISOLATION CLIP

RSIC-1 STEEL WALL ASSEMBLIES 1 & 2 HOUR:

<p>STC 63 3-5/8" steel stud wall, RSIC-1, Drywall furring channel, R-19 insulation, 2 layers 5/8" board RSIC-1 side, 3 layers other side 5/8" board</p>	
<p>UL U419, U423</p>	
<p>STC 62 3-5/8" steel stud wall, RSIC-1, Drywall furring channel, R-19 insulation, 2 layers 5/8" board each side</p>	
<p>UL U419, U423</p>	
<p>STC 60 3-5/8" steel stud wall, RSIC-1, Drywall furring channel, R-19 insulation, 1 layer 5/8" board RSIC side, 2 layers 5/8" gypsum board other side</p>	
<p>UL U419, U423</p>	
<p>STC 56 3-5/8" steel stud wall, RSIC-1, Drywall furring channel, R-19 insulation, 1 layer 5/8" board each side</p>	

GENERIC STEEL WALL SYSTEMS:

<p>STC 59 3-5/8" double steel stud wall, R-11 insulation, 2 layers 5/8" gypsum board each side</p>	
<p>STC 56 3-5/8" double steel stud wall, R-11 insulation, 1 layer 5/8" gypsum each side</p>	
<p>STC 51 3-5/8" steel stud wall, R-11 insulation, 2 layers 5/8" gypsum each side</p>	
<p>STC 46 3-5/8" steel stud wall, R-11 insulation, 1 layer 5/8" gypsum each side</p>	

RSIC-1 Wall



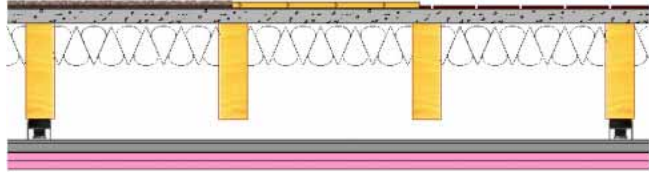
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THE RSIC-1 SOUND ISOLATION CLIP

RSIC-1 WOOD FLOOR CEILING ASSEMBLIES 1 & 2 HOUR:

UL L528, L542, L532, L523, L514, L513

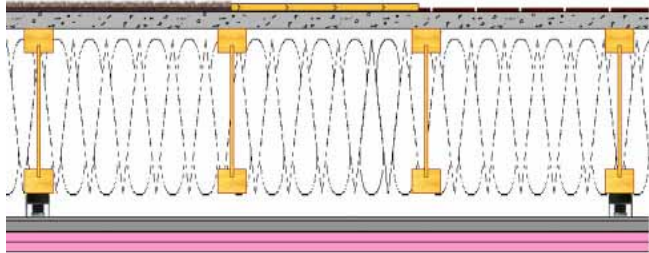
Carpet	STC 61	IIC 74
Hard Wood	STC 61	IIC 55
Tile	STC 61	IIC 53



UL L547, L518

Carpet	STC 61	IIC 74
Hard Wood	STC 61	IIC 55
Tile	STC 61	IIC 53

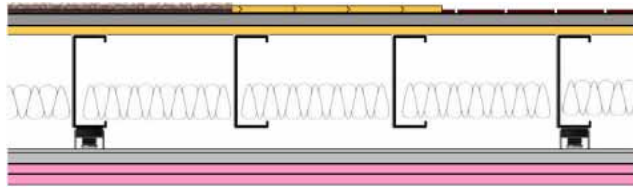
FIIC test with tile floor FIIC 63



RSIC-1 STEEL FLOOR CEILING ASSEMBLIES 1 & 2 HOUR:

UL L518

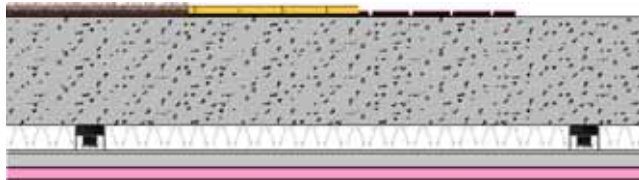
Carpet	STC 60	IIC 70
Hard Wood	STC 60	IIC 53
Tile	STC 60	IIC 50



RSIC-1 CONCRETE FLOOR CEILING ASSEMBLIES 1 & 2 HOUR:

UL L945

Carpet	STC 60	FIIC 84
Hard Wood	STC 60	FIIC 74
Tile	STC 60	FIIC 70
Bare	STC 60	FIIC 51



RSIC-1 Ceiling



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THE RSIC-1 SOUND ISOLATION CLIP



Furring Channel:

Minimum requirements: 25 gauge (0.0188 inch thickness), Hemmed Edge Detail required on all 25 gauge Furring Channel. Meets or exceeds SSMA min. requirements.

Optional: 22 gauge (0.027 inch thickness) or 20 gauge (0.033 inch thickness)

Depth: 7/8 inch or 1-1/2 inch.

Width Bottom: 2-1/2 inches wide minimum.

Width Top: 1-1/4 inch wide



Resilient Sound Isolation Clip (RSIC-1):

Spacing Maximum 48 inches on center.

Splice furring channel (hat track) with 6 inch over lap in mid span, secure with wire tie or with screws.

Maximum allowable dead load 36 pounds per RSIC-1.



Fasteners:

RSIC-1 to wood #8 x 2-1/2 inch (63mm) minimum length Coarse thread screw. (Recommended # 12 x 2-1/2 inch Hex Head)

RSIC-1 to Steel #8 x 1-5/8 inch (41mm) minimum length Fine thread screw. (Recommended # 12 x 1-5/8 inch Hex Head)

DO NOT fasten Resilient Sound Isolation Clips (RSIC-1) to framing members with nails. Use only approved screws.

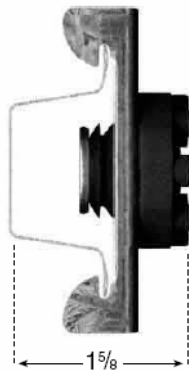
Drywall to furring channel (hat track):

Single layer 1/2 inch (12mm) use 1-1/8 inch (28mm) Type "S" screw with bugle head.

Single layer 5/8 inch (16mm) use 1-1/4 inch (32mm) Type "S" screw with bugle head.

Second layer 1/2 inch (12mm) use 1-5/8 inch (41mm) Type "S" screw with bugle head.

Second layer 5/8 inch (16mm) use 1-5/8 inch (41mm) Type "S" screw with bugle head.



Average Labor Rates:

RSIC-1: 72 clips per man hour average

Drywall Furring Channel: 550 Lf per man hour average

Labor rates provided to PAC International, Inc by an independent contracting firm.

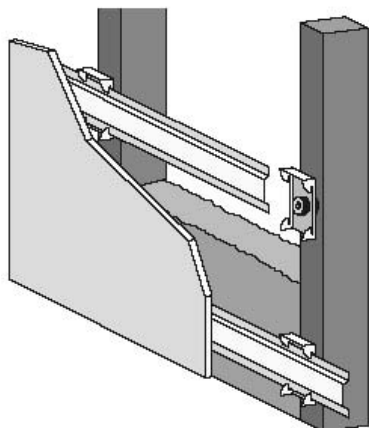
THE RSIC-1 SOUND ISOLATION CLIP

Walls: One and Two layers of 5/8" Gypsum

Resilient Sound Isolation Clip (RSIC-1) shall be 48 inches (1219mm) on center maximum. (Horizontal)

Fasten the Resilient Sound Isolation Clip (RSIC-1) to the structure members with approved fasteners

Ensure the internal metal Ferrell is tight to the framing member.
Locate the first row of RSIC-1 clips within 2 inches (50mm) from the floor, and within 6 inches (150mm) from the Ceiling.



Snap in the Drywall Furring Channel (hat track) into the RSIC-1 clip at right angles (perpendicular) to the framing members.

Ceilings: One and Two layers of 5/8" Gypsum

Resilient Sound Isolation Clip (RSIC-1) shall be a maximum of 48 inches (1219mm) on center. (Perpendicular to Joist/Truss)

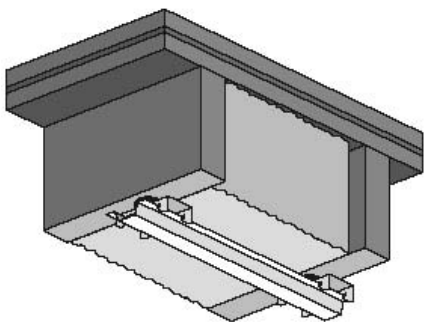
Fasten the Resilient Sound Isolation Clip (RSIC-1) to the structural members with approved fasteners.

Ensure the internal metal Ferrell is tight to the framing member
Locate the first row of RSIC-1 clips within 8 inches (200mm) of the wall at each end of a run.

Drywall Furring Channels (Hat Track) shall be a maximum of 24 inches on center (Vertically) for one layer of gypsum and 16 inches on center for two layers of gypsum.

For enhanced acoustical performance, increase the number of RSIC-1 isolators.

Snap in the Drywall Furring Channel (hat track) into the RSIC-1 clip at right angles (perpendicular) to the framing members.



General Information:

Resilient Sound Isolation Clip (RSIC-1), Furring Channel (hat track) and Gypsum board shall not carry heavy loads such as cabinets or bookshelves.

Resilient Sound Isolation Clip (RSIC-1) is typically only required on one side of an assembly.

Splice Furring Channel (hat track) with 6 inch over lap in mid span, secure with wire tie or with framing screw (7/16")

Seal all potential air leaks with non-hardening Acoustical caulking to achieve best Field Sound Transmission Class (FSTC) and Field Impact Isolation Class (FIIC) ratings. Use fire rated sealant where required



Fire Test Information

Resilient Sound Isolation Clips (RSIC-1) are not to be arbitrarily added to fire related assemblies. Check our web page for the latest updates to the Fire testing approvals.

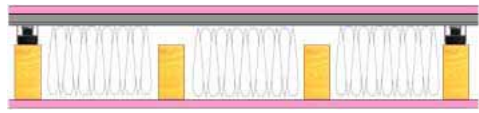
WWW.PAC-INTL.COM

Check UL Fire Resistance Directory File# R16638
Check UL's web pages. www.ul.com/database
Contact U.L. (877) UL- HELPS

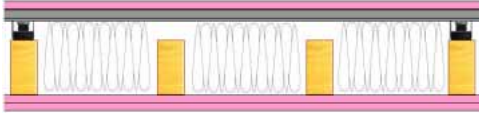
THE RSIC-1 SOUND ISOLATION CLIP

RSIC-1 Wall Systems

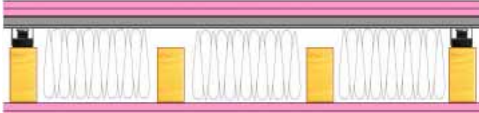
WOOD



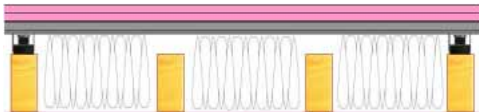
STC 56



STC 60



STC 62

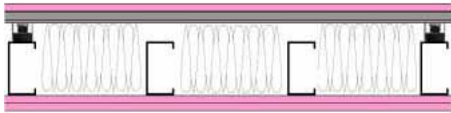


STC 63

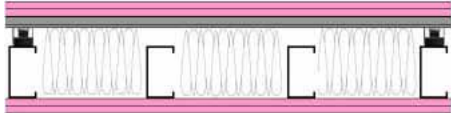
STEEL



STC 56



STC 60

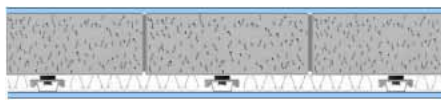


STC 62



STC 63

CONCRETE



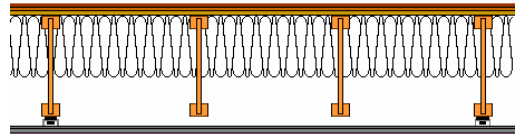
STC 53



STC 60

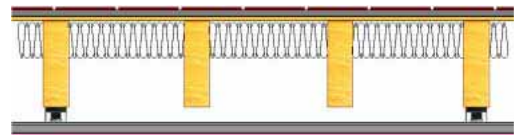
RSIC-1 Floor/Ceiling Systems

WOOD



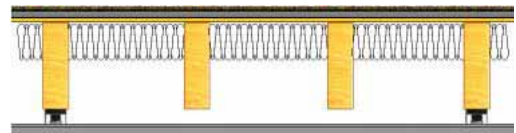
STC 57

IIC 63



STC 61

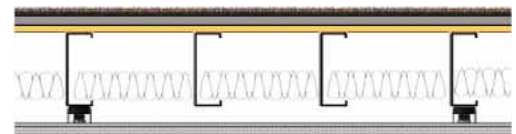
IIC 53



STC 60

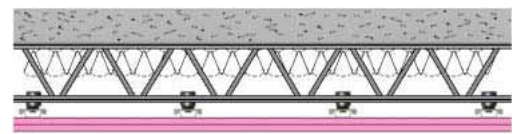
IIC 74

STEEL



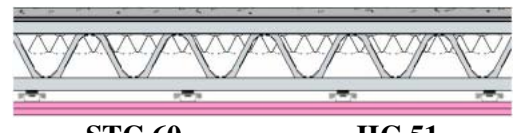
STC 60

IIC 72



STC 60

IIC 50



STC 60

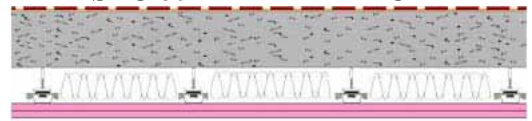
IIC 51

CONCRETE



STC 60

IIC 72



STC 60

IIC 62

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