GENIECLIP®

Sound Isolation Clips
GENIECLIP®

Innovative and reliable sound isolation

PRODUCT OVERVIEW

Engineered for superior acoustical performance in reducing the transmission of airborne and impact sound through wall and floor-ceiling assemblies.

The GenieClip RST is a unibody molded rubber and galvanized steel mount used to attach gypsum wallboard (GWB) to either wall or floor-ceiling assemblies. Made from recycled components, and engineered to allow reduction in assembly weight, the GenieClip contributes to LEED® certified buildings.

The GenieClip RST is easy and fast to install using standard steel furring channel, and is extremely stable when held in place with a single fastener. There is nothing to adjust or site fit. The furring channel is simply snapped into the GenieClip RST and the gypsum wallboard can be immediately installed.

ENGINEERED TO WORK

Only one screw required to attach GenieClip® RST to wood or metal wall studs or floor joists

Engage standard 25 gauge drywall furring channel into either claw, then squeeze channel to engage the claw

GenieClip RST video: https://www.youtube.com/watch?v=C1y7ET2ty50

ENGINEERED TO BE FOOLPROOF

Resilient Channel Crushed vs. GenieClip RST

Resilient channel is commonly short circuited, whereas the GenieClip RST is impossible to short circuit.

ENGINEERED TO REDUCE SOUND TRANSMISSION

LOW FREQUENCY PERFORMANCE

WOOD TRUSS IIC COMPARISON

* 3 5/8” metal stud wall, 1 layer of GWB on each side

STC = 56
STC = 55
STC = 50
STC = 41

IIC = 51
IIC = 55
IIC = 57

Adding a layer of GWB increases IIC by 2-3 dB only

GenieClip RST outperforms RC-1 at 100 Hz by 4-5 dB. This enhanced low frequency performance is the key to higher IIC ratings and better quality construction.
WOOD TRUSS ASSEMBLIES
OPEN-WEB WOOD TRUSSES

Wood Truss with GenieClip® RST and Gypsum Concrete

- Gypsum Wallboard
- Baseboard
- Acoustical Sealant
- GenieMat® PMI
- Vinyl Plank Flooring
- 3/4" Gypsum Concrete
- 3/4" O.S.B or T&G Plywood Subfloor
- 3 1/2" Insulation (secured to subfloor)
- 18" Open Web Wood Truss

Wood Truss with GenieClip RST and NO Gypsum Concrete

- Gypsum Wallboard
- Baseboard
- Acoustical Sealant
- GenieMat® PMI
- Vinyl Plank Flooring
- 3/4" O.S.B or T&G Plywood Subfloor
- 3 1/2" Insulation (secured to subfloor)
- 18" Open Web Wood Truss


PROJECT: Acoustical Test Drawings
Open Web Truss Assemblies
Phone: (416) 449 - 0049
Fax: (416) 849 - 0415
131 Royal Group Crescent
Vaughan, ON L4H 1X9
Canada
**FLOOR-CEILING ASSEMBLIES**

**ENGINEERED JOISTS**

**TJI Floor Joist with GenieClip® RST and Gypsum Concrete**

- 1/2" Wood Flooring on GenieMat® RST02
- 5/16" Porcelain Tile on GenieMat RST02
- 1/8" Vinyl Plank on GenieMat RST02
- 1 1/2" Gypsum Concrete
- GenieMat FF25
- 3/4" O.S.B Sheathing
- 6 1/4" Insulation

**UL Assembly L518, L547, L570, L589, M502, M506**

**TJI Floor Joist with GenieClip RST and NO Gypsum Concrete**

- 1/2" Wood Flooring on GenieMat RST02
- 5/16" Porcelain Tile on GenieMat RST02
- 1/8" Vinyl Plank on GenieMat RST02
- 1/2" Plywood
- 3/4" O.S.B Sheathing
- 6 1/4" Insulation

**UL Assembly L518, L570, L589, M502, M506**
**Floor-Ceiling Assemblies**

**SOLID WOOD 2 X 10 JOIST**

### Solid Joist with NO Gypsum Concrete

- 5/16" Ceramic Tile on GenieMat RST02
- GenieClip® RST 7/8" Furring Channel
- 1/2" Gypsum Wallboard

**UL Assembly**: L502

- 58 STC
- 52 IIC

### Solid Joist Retrofit Ceiling

- 5/16" Ceramic Tile on GenieMat RST02
- GenieClip® RST 7/8" Furring Channel
- 1/2" Gypsum Wallboard with 3” Relief Holes every 48” OC

- 1/2" Resilient Channel
- 1 1/2" Insulation
- 3 1/2" Insulation
- 10" Wood Joist

**UL Assembly**: L502

- 60 STC
- 50 IIC

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**Ceramic Tile**: 5013119

**Vinyl Plank**: 5013143

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**Ceramic Tile Vinyl Plank**: 5013136

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**GenieClip® RST**

- 5/8" Plywood Subfloor
- 1/2" Plywood Subfloor
- 3 1/2" Insulation
- 10" Wood Joist

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**Ceramic Tile 5013136**

**Vinyl Plank 5013143**
FLOOR-CEILING ASSEMBLIES
HOLLOW CORE PLANK

8” Hollow Core Plank

STEEL FLOOR SYSTEMS

Steel Deck and Joist System
**FLOOR-CEILING ASSEMBLIES**

**COMPOSITE FLOOR SYSTEMS**

### 16” Insulated Concrete Form

- **1/2” Wood Flooring**
- **GenieMat RST05**
- 16” Insulation Concrete Form
- 24” OC
- **1/2” Gypsum Wallboard**
- **GenieClip RST**
- **2 1/2” Insulation**
- **7/8” Furring Channel**
- **5/8” Gypsum Wallboard**

**STC: 63**
**IIC: 65**
**UL Assembly: L502**

### 4” Normal Weight Composite Deck

- **1/2” Wood Flooring**
- **GenieMat RST05**
- **4” NW Composite Deck**
- 48” OC
- **GenieClip RST**
- **3” Insulation**
- **7/8” Furring Channel**
- **5/8” Gypsum Wallboard**

**STC: 55**
**IIC: 54**
**UL Assembly: L502**
**FLOOR-CEILING ASSEMBLIES**

**TIMBER FLOORS**

### Cross Laminated Timber

- 5/8" Gypsum Wallboard
- Baseboard
- Acoustical Sealant
- GenieMat® PMI

1/2" Wood Flooring on GenieMat RST02

5/16" Porcelain Tile on GenieMat RST12

- 7" CLT
- 2 1/2" Insulation

48" OC

### Wood Beam and Plank

- 4" Concrete Slab
- GenieMat FF06
- 3/4" Wood Plank
- 2 1/4" Wood Plank
- 12" x 12" Wood Beam

- GenieClip RST
- 2 1/2" Insulation
- 7/8" Furring Channel
- 5/8" Gypsum Wallboard

96" OC
**GenieClip® LB**

Resilient sound isolation bracket used in a variety of applications where structural support is required, including wall sway bracing, ceiling suspension, and accessory mounting.

Significantly improves low and high frequency sound control performance. Substantially reduces impact noise in floor-ceiling assemblies. Adaptable to a variety of sound control applications.

Can be installed from the ground using extended gas-powered tools for wire-suspended ceilings.

### Isolated Wire Suspended Ceilings

**PROFILE VIEW**

- 6" Concrete Slab
- GenieClip LB
- Drywall Grid
- 12 Ga. Wire Hanger
- 6 1/2" Insulation
- 5/8" Gypsum Wallboard

**PLAN VIEW**

- Main Tee: North-South
- Cross Tee: East-West

### Isolated Framing for Bulkhead Mounting

**PROFILE VIEW**

- Floor Joist
- GenieClip LB
- Acoustical Sealant
- Isolation Framing
- Gypsum Wallboard
- Ductwork (suspend as specified)

**FRONT VIEW**

- 3/4" min

**GENERAL NOTES:**

The information provided in this drawing is accurate to the best of our knowledge at the time of printing. However, we reserve the right to make changes when necessary without notification.

**GENIEClip® LB2**

Resilient sound isolation clip with extended steel bracket used as a stand-alone system or in conjunction with a GenieClip RST wall or ceiling system. Extends or reduces the profile space between the gypsum wallboard layer and floor joists or wall studs and provides support at the wall termination of furring channels.

Improves low and high frequency sound control performance. Reduces impact noise in floor-ceiling assemblies. Allows for thinner and even no resilient mat used in certain floor-ceiling assemblies.

** Levelling a Wood Joist Ceiling **

**GENIEClip C3**

Ideal for use with threaded rod (black iron) suspended ceilings or when wire isolation cannot be achieved at the structural deck interface.

** Isolation of Threaded Rod Ceiling **
**GenieClip® LB3**

Resilient sound isolation clip with extended steel bracket used as a stand-alone system or in conjunction with a GenieClip RST wall or ceiling system. Extends or reduces the profile space between the gypsum wallboard layer and floor joists or wall studs and provides support at the wall termination of furring channels.

Improves low and high frequency sound control performance. Reduces impact noise in floor-ceiling assemblies. Allows for thinner and even no resilient mat used in certain floor-ceiling assemblies.

### Eliminate Perimeter Blocking

Using the GenieClip LB3 at the perimeter of an isolated ceiling can eliminate the need for additional wood blocking.

### Maximize Ceiling Height

To maximize ceiling height, use the GenieClip LB3 side-mounted on wood frame construction.

By installing the furring channel parallel to the joist, the GenieClip LB3 can maximize ceiling height while maintaining isolation.
**GENIECLIP® MOUNT**

**RESILIENT SOUND ISOLATION CLIP FOR HEAVY MOUNTING**

The **GenieClip Mount** is a resilient unibody molded rubber and steel bracket used for sound isolation in a variety of applications where superior structural support is required for installation, such as TVs, kitchen cabinets, headboards, garage door openers, various medical equipment, and handrails.

The **GenieClip Mount** supports, in shear and tension, a piece of 6” metal stud track at the same depth as the resiliently isolated drywall furring channel.

**ADVANTAGES**

Significantly improves low and high frequency sound control performance. Substantially reduces impact noise from fixtures mounted on walls and ceilings. Easily fastens to standard 6” metal stud track.

![Front view of installed GenieClip Mount and metal stud track.](image)

Vibration level on receiver room side of wall due to kitchen cabinet door slams with and without **GenieClip Mounts**.

![Graph showing vibration levels with and without GenieClip Mounts.](image)
WALL ASSEMBLIES
METAL STUD

GenieClip® RST with 2 Layers
- GenieClip RST
- 3 1/2" Insulation
- 7/8" Furring Channel
- 3 5/8" Metal Stud
- 5/8" Gypsum Wallboard
- 5/8" Gypsum Wallboard

GenieClip RST with 3 Layers
- GenieClip RST
- 3 1/2" Insulation
- 7/8" Furring Channel
- 3 5/8" Metal Stud
- 5/8" Gypsum Wallboard
- 2 x 5/8" Gypsum Wallboard

GenieClip RST with 4 Layers
- GenieClip RST
- 3 1/2" Insulation
- 7/8" Furring Channel
- 3 5/8" Metal Stud
- 2 x 5/8" Gypsum Wallboard
- 2 x 5/8" Gypsum Wallboard

WOOD STUD

GenieClip RST with 2 Layers
- GenieClip RST
- 3 1/2" Insulation
- 7/8" Furring Channel
- 2 x 4" Wood Stud
- 5/8" Gypsum Wallboard
- 5/8" Gypsum Wallboard

GenieClip RST with 3 Layers
- GenieClip RST
- 3 1/2" Insulation
- 7/8" Furring Channel
- 2 x 4" Wood Stud
- 5/8" Gypsum Wallboard
- 2 x 5/8" Gypsum Wallboard

GenieClip RST with 4 Layers
- GenieClip RST
- 3 1/2" Insulation
- 7/8" Furring Channel
- 2 x 4" Wood Stud
- 2 x 5/8" Gypsum Wallboard
- 2 x 5/8" Gypsum Wallboard

UL Assembly
- UL7-620, U305
- UL7-617, U305
- UL7-618, U305

STC
- 56
- 60
- 64
NEW WAY with GenieClip® RST

- GenieClip RST
- 3 1/2" Insulation
- 7/8" Furring Channel
- 3 5/8" Metal Stud
- 5/8" Gypsum Wallboard
- 5/8" Gypsum Wallboard

OLD WAY with 4 Layers

- 3/8" Metal Stud
- 3 1/2" Insulation
- 2 x 5/8" Gypsum Wallboard
- 2 x 5/8" Gypsum Wallboard

NEW WAY with GenieClip RST

- GenieClip RST
- 3 1/2" Insulation
- 7/8" Furring Channel
- 2 x 4" Wood Stud
- 5/8" Gypsum Wallboard
- 2 x 5/8" Gypsum Wallboard

OLD WAY with Staggered or Double Studs (Metal or Wood)

- 2 x 4 Wood Stud
- 3 1/2" Insulation
- 2 x 5/8" Gypsum Wallboard
- 2 x 5/8" Gypsum Wallboard

- Double Row of 2 x 4 Wood Stud and 3 1/2" Insulation
- 5/8" Gypsum Wallboard
- 5/8" Gypsum Wallboard

UL Assembly

- UL Assembly U305
- UL Assembly U419, U423
- UL Assembly U340
- UL Assembly U341
RETROFIT ASSEMBLIES
GENIECLIP® BENEFITS

- Increase IIC by 8-12 dB in floor ceiling retrofit assemblies
- Increase STC by 12-18 dB in wall retrofit assemblies
- Retrofit directly to existing ceiling or wall
- Greater STC than other popular retrofit solutions

**Floor-Ceiling Assembly**

**Wall Assembly**

Note: Resilient channel failure is a common observation by Acoustical Engineers. Short circuited resilient channel results in up to a 10 STC point reduction.


THE GENIECLIP IS PROVEN TO:

- Meet building codes for fire and sound
- Prevent costly litigation and reconstruction

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<th>IsoLATION CLIP</th>
<th>Durometer</th>
<th>Dynamic Stiffness</th>
<th>STC*</th>
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<tr>
<td>GenieClip RST</td>
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<td>11.3 N/mm</td>
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<td>Isomax™</td>
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<td>21.6 N/mm</td>
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<td>RSIC-1®</td>
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<td>RSIC-V®</td>
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</table>

*2x4 wood stud 16” OC, 1 layer of 5/8” Type X GWB on each side with 3 1/2” insulation

** Test conducted with 5 1/2” insulation
## TEST RESULTS

<table>
<thead>
<tr>
<th>TEST REPORT NUMBER</th>
<th>CEILING TYPE</th>
<th>STRUCTURE</th>
<th>FINISH FLOOR</th>
<th>UNDERLAMENT</th>
<th>SUBFLOOR</th>
<th>STC RATING (ASTM E90)</th>
<th>IIC RATING (ASTM E492)</th>
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<td>Porcelain Tile</td>
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<td>GenieClip RST, 5/8” GWB Type C</td>
<td>Open Web Truss</td>
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<td>GenieMat FF06</td>
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<td>Ceramic Tile</td>
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</table>

* RC Deluxe is a brand of resilient bar
## TEST RESULTS

### FLOOR-CEILING ASSEMBLIES

<table>
<thead>
<tr>
<th>TEST REPORT NUMBER</th>
<th>CEILING TYPE</th>
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<th>STC RATING (ASTM E90)</th>
<th>IIC RATING (ASTM E492)</th>
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<tbody>
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<td>58</td>
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</tr>
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<td>F1751.01</td>
<td>12&quot; Drop Ceiling, 5/8&quot; GWB Type C</td>
<td>6&quot; Concrete Slab</td>
<td>None</td>
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<td>63</td>
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</tr>
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<td>F1751.02</td>
<td>12&quot; Drop Ceiling, GenieClip C3, 5/8&quot; GWB Type C</td>
<td>6&quot; Concrete Slab</td>
<td>None</td>
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<td>F1751.05</td>
<td>12&quot; Drop Ceiling, GenieClip LB, 5/8&quot; GWB Type C</td>
<td>6&quot; Concrete Slab</td>
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<td>F1751.03</td>
<td>12&quot; Drop Ceiling, GenieClip C3, 5/8&quot; GWB Type C</td>
<td>6&quot; Concrete Slab</td>
<td>Wood</td>
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<td>F1751.04</td>
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<td>Wood</td>
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<td>F9365.07</td>
<td>6&quot; Drop Ceiling, GenieClip LB, 5/8&quot; GWB Type C</td>
<td>6&quot; Concrete Slab</td>
<td>Vinyl Plank</td>
<td>GenieMat® RST02PS</td>
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## TEST RESULTS

<table>
<thead>
<tr>
<th>Test Report Number</th>
<th>Product</th>
<th>Steel Stud Wall Structure</th>
<th>GWB Layers (7/8&quot; Type X)</th>
<th>TL @80 Hz (dB)</th>
<th>TL @100 Hz (dB)</th>
<th>STC (ASTM E413)</th>
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</thead>
<tbody>
<tr>
<td>TL07-614</td>
<td>None</td>
<td>20 Ga., 3 5/8&quot; wide spaced 24&quot; O.C.</td>
<td>1x1</td>
<td>14</td>
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<td>TL07-620</td>
<td>GenieClip® RST</td>
<td>20 Ga., 3 5/8&quot; wide spaced 24&quot; O.C.</td>
<td>1x1</td>
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<td>25</td>
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<td>TL07-625</td>
<td>RC Deluxe®</td>
<td>20 Ga., 3 5/8&quot; wide spaced 24&quot; O.C.</td>
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<td>13</td>
<td>23</td>
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<tr>
<td>TL07-629</td>
<td>RSIC-1®</td>
<td>20 Ga., 3 5/8&quot; wide spaced 24&quot; O.C.</td>
<td>1x1</td>
<td>15</td>
<td>24</td>
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<td>TL07-633</td>
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<td>TL07-615</td>
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<tr>
<td>TL07-626</td>
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<td>20 Ga., 3 5/8&quot; wide spaced 24&quot; O.C.</td>
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<td>55</td>
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<td>TL07-617</td>
<td>GenieClip® RST</td>
<td>20 Ga., 3 5/8&quot; wide spaced 24&quot; O.C.</td>
<td>2x1</td>
<td>24</td>
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<tr>
<td>TL07-630</td>
<td>RSIC-1®</td>
<td>20 Ga., 3 5/8&quot; wide spaced 24&quot; O.C.</td>
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<td>60</td>
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<td>TL07-634</td>
<td>RSIC-V®</td>
<td>20 Ga., 3 5/8&quot; wide spaced 24&quot; O.C.</td>
<td>2x1</td>
<td>17</td>
<td>29</td>
<td>56</td>
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<tr>
<td>TL07-616</td>
<td>None</td>
<td>20 Ga., 3 5/8&quot; wide spaced 24&quot; O.C.</td>
<td>2x2</td>
<td>18</td>
<td>24</td>
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<tr>
<td>TL07-627</td>
<td>RC Deluxe®</td>
<td>20 Ga., 3 5/8&quot; wide spaced 24&quot; O.C.</td>
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<td>36</td>
<td>60</td>
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<td>GenieClip® RST</td>
<td>20 Ga., 3 5/8&quot; wide spaced 24&quot; O.C.</td>
<td>2x2</td>
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<td>37</td>
<td>64</td>
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<td>TL07-631</td>
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<td>20 Ga., 3 5/8&quot; wide spaced 24&quot; O.C.</td>
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<td>TL07-635</td>
<td>RSIC-V®</td>
<td>20 Ga., 3 5/8&quot; wide spaced 24&quot; O.C.</td>
<td>2x2</td>
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<td>36</td>
<td>60</td>
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<td>TL09-600</td>
<td>2x GenieClip® RST</td>
<td>20 Ga., 3 5/8&quot; wide spaced 24&quot; O.C.</td>
<td>1x1</td>
<td>22</td>
<td>28</td>
<td>59</td>
</tr>
<tr>
<td>TL09-601</td>
<td>2x GenieClip® RST</td>
<td>20 Ga., 3 5/8&quot; wide spaced 24&quot; O.C.</td>
<td>2x1</td>
<td>28</td>
<td>36</td>
<td>63</td>
</tr>
<tr>
<td>TL09-602</td>
<td>2x GenieClip® RST</td>
<td>20 Ga., 3 5/8&quot; wide spaced 24&quot; O.C.</td>
<td>2x2</td>
<td>35</td>
<td>42</td>
<td>66</td>
</tr>
</tbody>
</table>

* RC Deluxe is a brand of resilient bar
** RSIC-V and RSIC-1 are both brands of isolation clips
## TEST RESULTS

**WOOD STUD WALL ASSEMBLIES**

<table>
<thead>
<tr>
<th>Test Report Number</th>
<th>Product</th>
<th>Wood Stud Wall Structure</th>
<th>GWB Layers (5/8&quot; Type X)</th>
<th>TL @80 Hz (dB)</th>
<th>TL @100 Hz (dB)</th>
<th>STC (ASTM E413)</th>
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</thead>
<tbody>
<tr>
<td>TL07-674</td>
<td>None</td>
<td>2 x 4 spaced 16&quot; O.C.</td>
<td>1x1</td>
<td>23</td>
<td>23</td>
<td>37</td>
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<td>TL07-673</td>
<td>GenieClip® RST</td>
<td>2 x 4 spaced 16&quot; O.C.</td>
<td>1x1</td>
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<td>27</td>
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<td>TL07-754</td>
<td>RC Deluxe®</td>
<td>2 x 4 spaced 16&quot; O.C.</td>
<td>1x1</td>
<td>15</td>
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<td>50</td>
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<tr>
<td>TL07-753</td>
<td>RSIC-1®</td>
<td>2 x 4 spaced 16&quot; O.C.</td>
<td>1x1</td>
<td>17</td>
<td>25</td>
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<td>TL07-746</td>
<td>RSIC-V®</td>
<td>2 x 4 spaced 16&quot; O.C.</td>
<td>1x1</td>
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<td>TL07-672</td>
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<td>2 x 4 spaced 16&quot; O.C.</td>
<td>2x1</td>
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<td>TL07-744</td>
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<td>2 x 4 spaced 16&quot; O.C.</td>
<td>2x1</td>
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<td>TL07-670</td>
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<td>2 x 4 spaced 16&quot; O.C.</td>
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<td>TL07-743</td>
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<td>25</td>
<td>30</td>
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</tr>
<tr>
<td>TL07-751</td>
<td>RSIC-1®</td>
<td>2 x 4 spaced 16&quot; O.C.</td>
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<td>TL07-748</td>
<td>RSIC-V®</td>
<td>2 x 4 spaced 16&quot; O.C.</td>
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<td>28</td>
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<td>63</td>
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<tr>
<td>TL07-644</td>
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<td>2 x 4 spaced 16&quot; O.C.</td>
<td>1x1 +1 layer</td>
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<td>18</td>
<td>48</td>
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<tr>
<td>TL07-697</td>
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<td>2 x 4 spaced 16&quot; O.C.</td>
<td>1x1 +1 layer</td>
<td>17</td>
<td>24</td>
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<tr>
<td>TL11-120</td>
<td>None</td>
<td>Double Stud</td>
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<td>35</td>
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<td>TL11-121</td>
<td>None</td>
<td>Staggered Stud</td>
<td>2 x 4 spaced 16&quot; O.C.</td>
<td>2x2</td>
<td>29</td>
<td>36</td>
</tr>
</tbody>
</table>

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** RSIC-V and RSIC-1 are both brands of isolation clips