



RC Assurance™ Acoustical Assurance

Developed several decades ago, resilient channels are a staple in the multi-family industry.

However, there are issues when installing resilient channels. The typical design and UL Assembly call for a fastener of 1.0". The typical field installation utilizes a 1.25" or 1.5" fastener to aid in the "GRAB" of the screw to the channel. The result is that as much as 15% of the connections will be short-circuited, and the performance of the system compromised. Now, that lab-tested 52 becomes a field 42. The resilient channel needs another 0.375" to ensure that connections between the gypsum board and the joist assembly are limited.

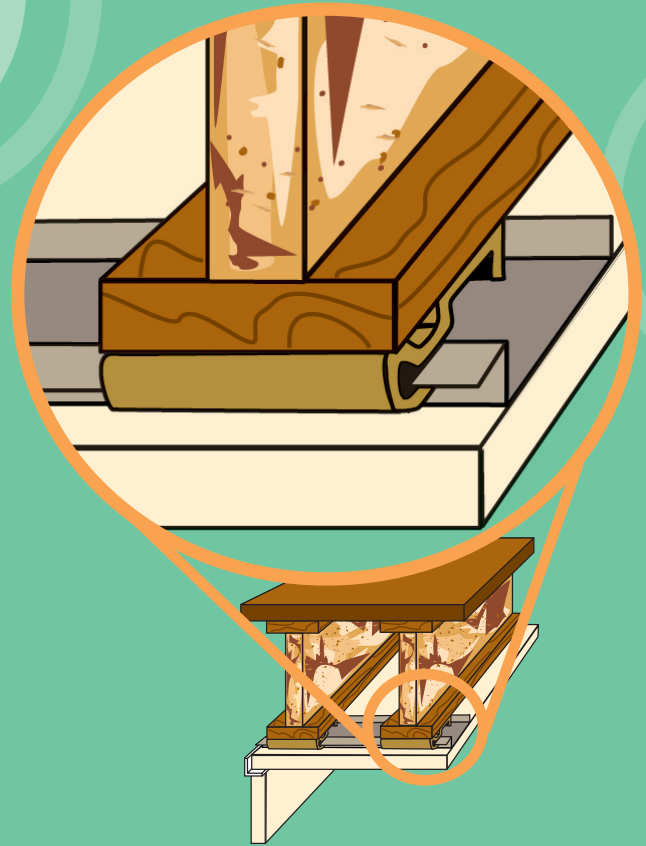
RC Assurance™ provides space and the added safety of a hardened steel plate.

Benefits

- ✓ Enables resilient channel to be installed correctly
- ✓ With the correct installation, resilient channel can perform at levels equal to more expensive isolator clip assemblies
- ✓ UL-listed and approved
- ✓ Cannot be penetrated
- ✓ Push-down flange that prevents channel "ride"
- ✓ Intersection of the channel and joist is protected from short-circuiting
- ✓ Ease in installation; snap-on design
- ✓ No laser alignment like isolator clips



RC Assurance™ is 0.3125 inches thick (8-mm) and weighs 1 oz. (25 g)



- ✓ This unique, patent-pending clip acts as an impenetrable washer that puts extra space between the resilient channel and the joist
- ✓ For the developer, it is assurance that the RC channels are installed properly
- ✓ The RC Assurance™ clip allows the resilient channel to stay resilient after installation



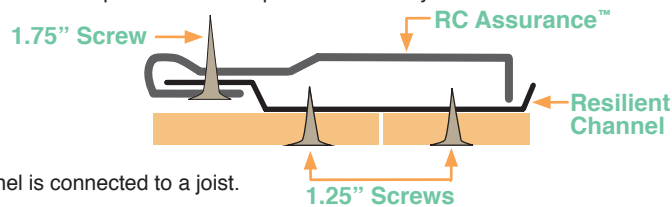


Installation Instructions for RC Assurance™

1. Resilient channels should be RC Deluxe as manufactured by Dietrich, or a manufactured product that is equal dimensionally.

Nominal dimensions are:

- a. 2.5" overall width
- b. 0.50" thickness
- c. 0.50" screw area to connect RC channel to the joist
- d. 1.50" screw area to connect gypsum board to the RC channel
- e. 25-gauge galvanized steel



2. RC Assurance is a spacer that is used in every location where a resilient channel is connected to a joist.

3. RC Assurance is designed to snap on to the 0.50" **FLANGE** of a resilient channel with the pinch point on the top and bottom. The 90-degree leg points down toward the open area of the resilient channel (as shown above/right).

4. Spacing for resilient channels varies from UL Assembly and may be between 12.0" to 24.0" on center. Please consult your project specifications for proper spacing.

5. Lay out all resilient channels, following the recommended guidelines of the Gypsum Contractors Association, UL and the project specifications.

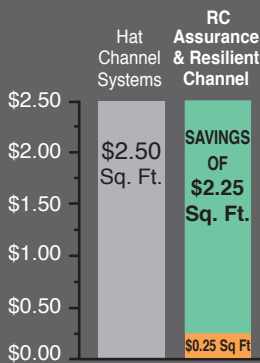
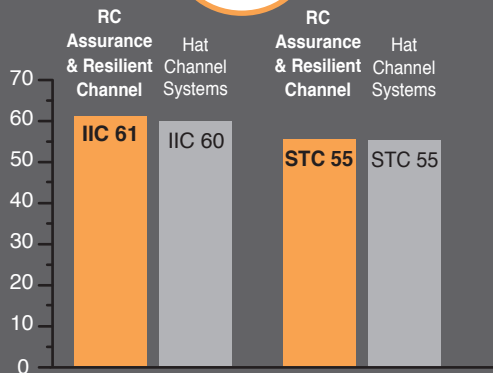
6. **Fastening the resilient channel to the joist with RC Assurance™:** For installation with RC Deluxe from Dietrich, snap enough RC Assurance onto the flange of the resilient channel to fasten the entire 12-foot section, one for each joist connection; RC Assurance will lock and slide to the proper position. Use a 1 3/4" type "S" buglehead screw to fasten the assembly to the joist. Complete the installation of the channel, leaving a small (0.125") gap between the structural wall elements and the butt end of the resilient channel. Wherever possible, utilize the screw holes in the resilient channel, but where alignment with the center of a joist does not work screw through the resilient channel to fasten to the joist.

7. **Seaming resilient channel:** Most assemblies require a 4.0" overlap of resilient channel butt ends. For this application, slide the two flanges into the RC Assurance and screw through both pieces to fasten to the joist.

8. **Connecting gypsum board to resilient channel:** Consult the UL Assembly or project specification for the type of screw to install. Typically, type "S" or "W" buglehead screws are required. RC Assurance is typically installed with a 1.25" type "S" screw for the first layer of gypsum board, and with a 1 7/8" type "S" screw for a second layer.

9. **DO NOT INSTALL A RESILIENT CHANNEL WITH ONLY ONE FASTENER AND/OR ONLY ONE RC ASSURANCE.**

BETTER Performance



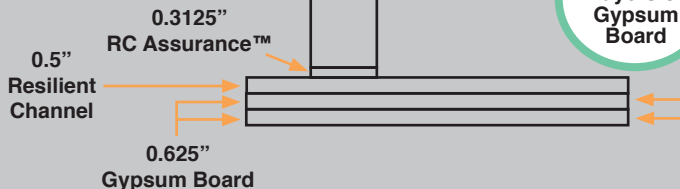
LOWER COST

OPTIONS

**"I" Joists
Truss Joists
2" Dimensional Lumber**

**16" Center
or
24" Center
Joist
Spacing**

**One or Two
Layers of
Gypsum Board**



QUIET QURL is a component in an overall floor/ceiling assembly. Its performance is affected by every other component and the likelihood of achieving code compliance is contingent upon many other trades including framers, plumbers, drywall contractors to name a few. Developers and general contractors are responsible for building properly and testing field performance as soon as possible in order to assure the reliability of the project.

WARNING: Laboratory tests are not a guarantee of field performance because of the issues noted above and many other design errors that may occur. Please consult a professional acoustical consultant to assure plans are proper and that the floor/ceiling assembly can perform to expectations.



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