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.

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.

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)
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. 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. 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.

6. 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.