



CUMING MICROWAVE

CLIP AND RAIL INSTALLATION

RoHS
Compliant

APPLICATION NOTE 300-15

The rail sections are typically 10' long and pre-punched 8" on center.

When installing **C-RAM SFC-48** or smaller absorber, it is adequate to screw the clip on using every second pre-punched hole. When installing, use low profile heads to avoid interference with the clips.

When installing on modular shielding with wood-core panels, use a self-tapping screw, which penetrates only the first shielding skin and goes into the wood core. *Be careful not to penetrate the outer skin (furthest away from the rail).* Select the appropriate screw length before use.

When installing on plywood or foil-clad plywood, simply use a wood screw of appropriate length.

If mounting the rail on a steel-welded room, tack-weld the rail to the steel shield using ~2" long tack welds 8" on center for 72" and 48" and 12" on center for 36" or smaller. Alternate the welds from the left side to the right side of the rail.

Layout for Rails:

On vertical walls, the rails run vertical.

Start at your reference point. Measure in 6" and place the rails 12" on center. Two rails will engage each absorber.

On the ceiling, you may run the rails lengthwise or widthwise across the room. Lengthwise is often easier. Use same layout as on walls; i.e., first rail 6" from the reference point, then 12" on center when using full-size absorber pieces.

Reference Point:

This is at the edge of the **Corner Blocks**. Check your layout and **Corner Block** dimensions. Typically, the layout is such that the end wall reference point is a distance from the sidewalls, which is equal to the **Corner Block** thickness. On the sidewalls, the reference point then is a distance from the end wall—equal to the length of the **Corner Block**.

IMPORTANT!

Please note:

If the layout shows a partial-width absorber piece mating up against the Corner Block, adjust the spacing of the first two rails so that the two rails will engage the pan on the piece fairly evenly spaced. Mark where the edge of the partial-width absorber will be, and make this your reference point.

We usually recommend bonding the Corner Blocks in place using contact adhesive in a 6" to 8" wide strip along the front edge. This drastically eases installation.

If you must use the clip and rail, designate only one rail to the Corner Block up through 36" length.

Absorber Installation:

Always start installation at a floor corner. I recommend the floor corner at the receiving wall and build up. On the end wall, start at the floor corner nearest the entrance and build up and away from the entrance.

The first clip should ideally be screwed to the rail at a height where the edge of the absorber touches and lightly presses onto the floor **Corner Block**.

Firmly press the first absorber panel in place and apply two clips—*always with the tab facing up (or when installing on the ceiling, the tab should face away from the last installed absorber)*. The clip and rail installation is simple as long as the absorbers are firmly pushed sideways and down during installation so that no gaps occur.

Take care when installing the top row along the walls. When using **C-RAM SFC-24** and **36**, reach in and install the clips. Then place paper on top of the absorber and slide the **Corner Block** into place. Then remove the paper sheet. (*Without the paper, there is too much friction; and the **Corner Block** cannot be pushed into place.*) Just let the **Corner Block** rest on the wall absorber near the wall and bond on the outer edge.

If you must use the clip and rail, the **Corner Block** rail must run along the sidewall at a distance from the wall of 2" to 6" less than the **Corner Block** length.

For 72" absorbers, it is recommended to bond (using contact adhesive) the top row of absorbers.

When using the twisted pyramid design, the top row can often just be pushed into place without bonding, but you must use cardboard or paper to slide the absorber in place.

Additional Information:

- Door absorbers should ideally be adhesive bonded on, so they do not shift after repeated opening and closing of the doors.
- If you detect a small gap between absorbers, stuff it thoroughly with an appropriate size sliver of scrap absorber material. (A paint stirrer stick or spatula works well to help stuff these small gaps.)
- Some trimming may be required on site. Make sure the trimmed surfaces are facing the Corner Blocks—out of sight.