

RADIANT COMFORT™

Hydronic Radiant In-Floor Insulation Panels

New Construction Installation Instructions

The new construction Radiant Comfort panels have been designed to be installed prior to pouring a concrete slab. Having Radiant Comfort installed below the slab will provide even heat distribution throughout the entire surface.

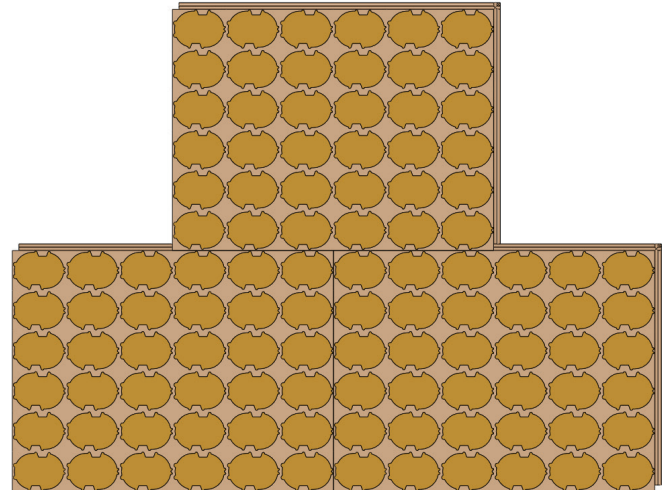
For remodel projects, refer to the reverse side for retrofit Radiant Comfort instructions. The retrofit panels have a higher density and lower profile, created specifically for remodel projects.

Tools Needed: pencil, tape measure, utility knife

1. Plan where the manifold with tubing hook up will be located
2. Ensure drainage layer surface is flat and smooth
3. Start in any corner, and install the panels across the room. Make sure all the panels are oriented in the same direction. After installing the first full row, make sure to stagger adjacent panels so the seams do not intersect at the same location (see Figure 1). Continue this pattern across the entire floor. This will strengthen and stabilize the panel structure. Ensure panels are connected using the interlocking edges. Panels can be easily cut using a straightedge, scoring deeply with a utility knife, and snapping.
4. Install the PEX tube by walking it into the grooves of the panels using your foot, securing them into place. The new construction panels can accommodate up to 5/8" tubing. The pucks are sized to allow the tubing to be spaced at 6", 8", 12" or 16" apart, based on the project's specifications.
5. The tubing used to channel through the panels can be stiff, making it difficult to install. Try to keep the tubing warm before and during installation to avoid having it pop out of place.
6. Radiant Comfort panels are not considered a vapor barrier. If the local codes require such, it is the responsibility of the contractor to determine the vapor barrier placement based on the exact geography, application, site conditions and expertise. Depictions are for example purposes only.

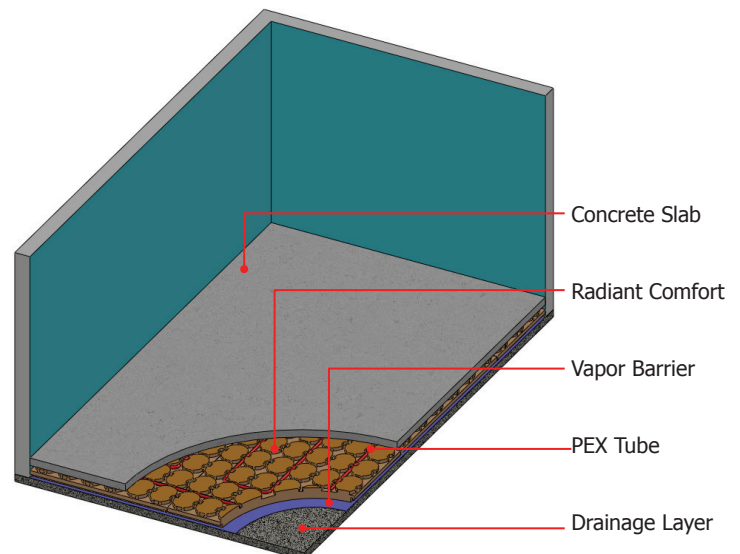
DETAIL 1:

Installation Pattern with Staggering Seam



DETAIL 2:

New Construction Installation Rendering



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Retrofit Installation Instructions

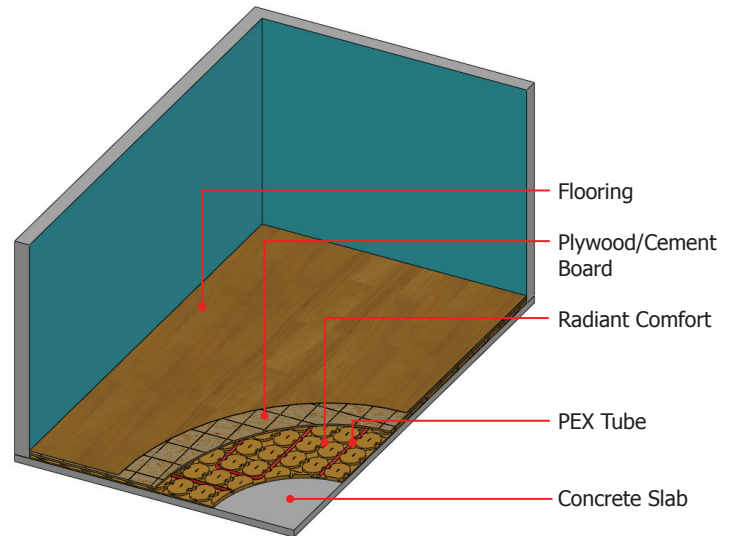
The retrofit floor panels are designed to be installed above the subfloor and below the flooring.

Tools Needed: pencil, tape measure, utility knife, chalk line, masking tape

1. Plan where the manifold with tubing hook up will be located
2. Clean floor of all dust and debris for proper adhesion and flatness
3. Start in any corner, and install the panels across the room. Use a foam adhesive on the back side of the panels to secure them in place, and make sure all the panels are oriented in the same direction. After installing the first full row, make sure to stagger adjacent panels so the seams do not intersect at the same location (see Figure 1). Continue this pattern across the entire floor. This will strengthen and stabilize the panel structure.
4. Install the PEX tube by walking it into the grooves of the panels using your foot, securing them into place. The retrofit panels can accommodate 1/2" tubing. The pucks are sized to allow the tubing to be spaced at 6", 8", 12" or 16" apart, based on the project's specifications.
5. The tubing used to channel through the panels can be stiff, making it difficult to install. Try to keep the tubing warm before and during installation to avoid having it pop out of place.
6. Mark the walls with masking tape and pencil to show location of puck centers. This will be used to make chalk line grid pattern over the subfloor to avoid puncturing the tube (see Figure 4).
7. The following bullets discuss what materials need to be installed on top of the Radiant Comfort panels prior to laying the flooring down:
 - Hardwood floors: wood subfloor
 - Ceramic tiles: thin set mortar and cement board
 - Carpet: wood subfloor
 - Vinyl flooring: plywood underlayment

DETAIL 3:

Retrofit Installation Rendering



DETAIL 4:

Chalk Line Grid Pattern

