

## Installing Radiant Floor Tubing has never been so quick and easy!



- Compact (2' x 4') and easy to handle, Heat-Sheet® Heavy Panels securely interlock together.
- Tough preformed nodules resist job site breakage and form a multi-directional tubing channel grid.
- Tubing easily “walks into place” (in half the time or better!).
- And, tubing stays in place (without ties, clips or staples in most cases).

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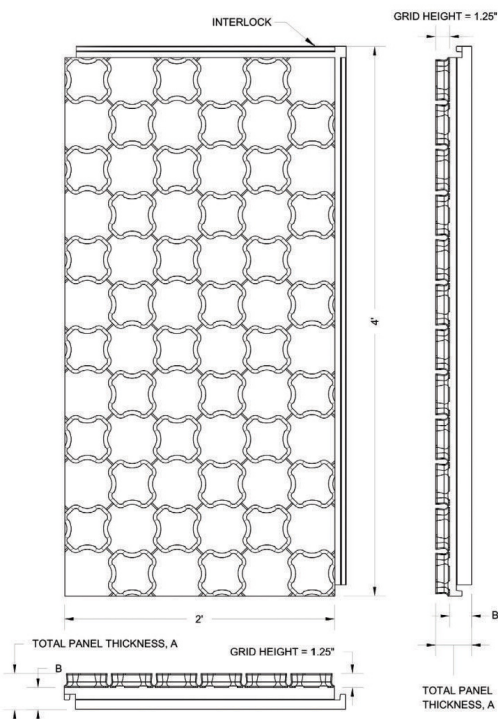
# TECHNICAL INFORMATION

## Specifications

Heat-Sheet® Heavy Panels are made with expanded polystyrene (EPS): a tough, high-density, closed cell foam insulation that is engineered to a minimum compression strength of 25 psi to support the weight of cast-in-place concrete. (Higher compression strengths are available upon request.)

Heat-Sheet® Heavy Panels come in a range of thicknesses from 2-3/4" (R-8) to 5-1/2" (R20).

Heat-Sheet® Heavy's tubing channel system provides proper, multidirectional placement of 1/2", 5/8" or 3/4" I.D. tubing with 4" on-center points.



## Applications

Heat-Sheet® Heavy Radiant Floor Panels can be used in all underconcrete radiant floor applications, including:

- + Slab-On-Grade Applications
- + Sandwich Slab Applications
- + Snow-Melt Applications
- + Retrofit & Overlay Applications

## Estimating

1. Measure the length and width to determine the size of the area in which you want to install Heat-Sheet® Heavy Panels.
2. The panels are 8 sq. ft. each. Divide the area by 8 to get the number of panels you require.
3. Heat-Sheet® Heavy Panels come bundled in varying quantities as shown in the Size & Packaging Chart. When ordering your panels, round up to the nearest whole bundle.

## Installation Steps

### LAYING HEAT-SHEET® HEAVY RADIANT FLOOR PANELS

1. Ensure the ground is reasonably level before beginning installation.
2. A vapor barrier may be required by your local building code. When installing a vapor barrier, ensure it is in place before you begin laying the Heat-Sheet® Heavy panels.
3. Remove the interlock from two sides of the starting panel to avoid an air gap. It is easiest to remove the interlock you can see when looking at the back of the panel. Starting in a corner, place the cut edges tight against the wall.
4. For the next panel, cut the interlock on the 4' length only. Place trimmed panels so that they interlock along the 2' dimension.
5. Continue placing panels until you come to a wall. You will likely need to cut the final panel in this row to fit.
6. Use the leftover segments to start the next rows, and be sure to maintain the 4" spacing pattern. The idea is to have a staggered (running bond) layout rather than rows or columns. This helps keep the panels bound together and reduces waste.

### ONCE HEAT-SHEET® HEAVY PANELS ARE INSTALLED

1. Heat-Sheet® Heavy Radiant Floor Panels are designed with a 4" grid for easy tube spacing. Please consult an HVAC designer to determine the required separation points.
2. Install the tubing by simply "walking it" into the panels.
3. Ensure the tubing is fully seated when turning a corner before you begin the next run. You may need to use a plastic staple on the turns to keep the pipe in place.
4. Wire mesh and rebar can be laid directly on top of the panels, if required.

### SCREED VOLUME RATES

To the top of the Heat-Sheet® Heavy nodules: 0.069 ft<sup>3</sup>/ft<sup>2</sup>.  
For each additional inch of slab: 0.083 ft<sup>3</sup>/ft<sup>2</sup>.

## Size & Packaging Chart

| Product Description        | Nominal Panel Thickness (B) | Total Panel Thickness (A) | Average R-Value | Panels/Bundle <sup>3</sup> | Sq.Ft./Bundle |
|----------------------------|-----------------------------|---------------------------|-----------------|----------------------------|---------------|
| HSH-R8                     | 1-1/2"                      | 2-3/4"                    | 8               | 10                         | 80            |
| HSH-R10 <sup>1,2</sup>     | 2"                          | 3-1/4"                    | 10              | 8                          | 64            |
| HSH-R12 <sup>1,2</sup>     | 2-3/8"                      | 3-5/8"                    | 12              | 6                          | 48            |
| HSH-R14 <sup>1,2</sup>     | 2-7/8"                      | 4-1/8"                    | 14              | 6                          | 48            |
| HSH-R16.1 <sup>1,2,4</sup> | 2-7/8"                      | 4-1/8"                    | 16              | 6                          | 48            |
| HSH-R20 <sup>1,2</sup>     | 4-1/4"                      | 5-1/2"                    | 20              | 6                          | 48            |

<sup>1</sup>Additional vapor barrier not required when using Type 3 EPS in accordance with the National Building Code of Canada.

<sup>2</sup>Additional vapor retarder not required when using Type IX EPS in accordance with the International Building Code.

<sup>3</sup>Panels per bundle may vary. Contact your local Heat-Sheet® representative to confirm.

<sup>4</sup>Made with Graphite Polystyrene (GPS) to provide an incremental R-2.1. CCMC EVALUATION LISTING 14007-L

The various panel thicknesses are regionally available. Please confirm product availability in your region.

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**FOR MORE INFORMATION:**

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