

PREPARATION

1. Verify that the dimensions on the plan match the location's actual dimensions. If dimensions do not match, call (800) 875-5285 before opening rolls.
2. Cross check the items you received against the packing list and the materials list on the installation plan to ensure that the roll length and thermostat type are an exact match.
3. Detach the UL label from the WarmlyYours roll and affix it on the fuse/breaker box.
4. Perform Ohm Tests - Measure the resistance of each mat with an Ohm meter (reading core wire to core wire) and record the readings on the UL label and on the installation plan. Do the same test on the outer ground, ground braid and record it on the UL label. The Ohms readings should be within a +/- 15% variance of the Ohm value specified on the UL tag. Measure the continuity between core wire and ground wire – The reading should be O/L or infinity.
5. Prepare the subfloor so it is clean and free of debris.
6. Do a dry fit of the rolls on the subfloor according to the custom design/installation plan. Measure and mark the mats and subfloor if necessary.
7. Make any adjustment in the layout PRIOR to cutting the roll.

Please call WarmlyYours at (800) 875-5285 if the roll does not provide the specified coverage or for 24/7 installation or technical support.

STEP 1 - DRY-FIT / CUTTING & TURNING

1. Verify that the cold lead wires at the end of each roll will reach the thermostat location. Run the cold lead wires no closer than 2" from the edge of the warming roll. Cold lead wires can not crossover a warming cable or the sensor wire.
2. Cut the fiberglass mesh backing as needed. Never cut the heating cables. Lay out the heating rolls on the floor for the final dry fitting review.

STEP 2 - SYSTEM INSTALLATION

1. Use a staple gun, hot glue gun, or duct tape to secure the mat meshing to the subfloor every 6-8 inches. NEVER staple the wires.
2. Choose a sensor location within 15 feet of the thermostat box. Place the sensor underneath the fiberglass backed mesh, and center it directly between the heating wires (See Diagram 1). It must project at least 6" into the heated area. The sensor wire must **NOT** contact any heating wire.
3. Run all cold lead wires beside the mats securing them to the subfloor with hot glue or duct tape every 8-10 inches in a flat path back to the control or junction box location.
4. Run leads to control box and install the circuit check device.

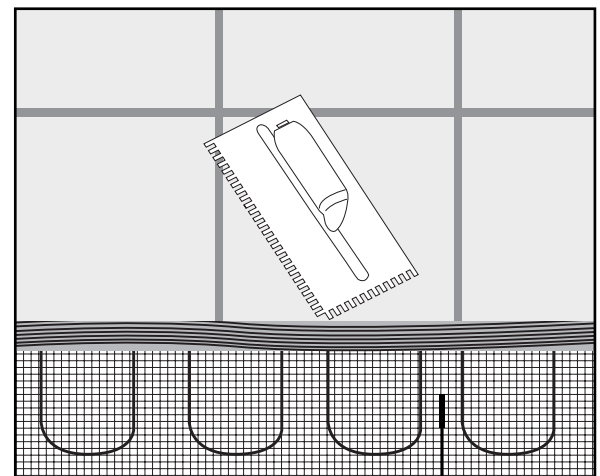


Diagram 1

Sensor Wire

STEP 3 - TILE INSTALLATION

Turn on circuit check before applying thinset or SLC.

ONE-STEP METHOD:

1. Apply 3/8" of acrylic or latex modified thinset mortar with a square notched trowel over the mats trowelling in the direction of the wires whenever possible.
2. Set tiles as recommended. TIP: If thinset oozes up into the grout joints, clean it out with a wet rag while installing the tile when the thinset is wet in preparation for the grout installation. NEVER use a utility knife to remove cured thinset from grout joints as this can easily damage the heating wires and void the warranty.

TWO-STEP METHOD:

1. Apply a 1/8" skim coat with a flat rubber trowel using acrylic/latex modified thinset mortar trowelling in the direction of the wires whenever possible or pour self-leveling cement over the mats and let cure.
2. Apply a second layer of thinset using a 1/4" square notched trowel and set tile as recommended. TIP: If thinset oozes up into the grout joints, clean it out with a wet rag while installing the tile when the thinset is wet in preparation for the grout installation. NEVER use a utility knife to remove cured thinset from grout joints as this can easily damage the heating wires and void the warranty.

ELECTRICAL ROUGH-IN

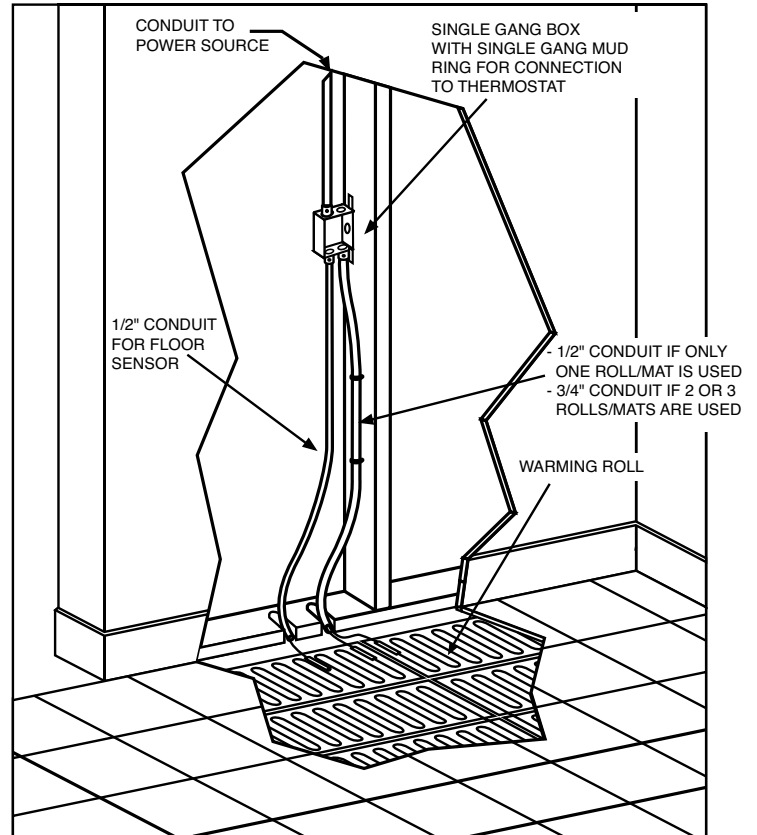


Diagram 2

STEP 4 - ELECTRICAL CONNECTIONS

1. The electrical wiring should follow the wiring instruction schematic provided.
2. The thermostat is mounted in a single gang deep box with a single gang mud ring.
3. The heating mats must be connected to the electrical service via a GFCI (Ground Fault Circuit Interrupter). The GFCI feature is incorporated in the thermostat.
4. All electrical connections should be performed by a licensed, certified electrician.

Allow proper thinset and grout cure time as recommended by the manufacturer (typically 7-10 days) before powering up the WarmlyYours electric radiant heat system.