



For this application, we recommend installing wood sleepers and using a combination of nailing and gluing to install the flooring. Highly recommended to protect your floor: 82° F (27° C) maximum floor temperature and a minimum humidity level of 40% in colder months or manufacturer recommended temperature and humidity levels.

Material and Tools Required:

- WarmlyYours TempZone™ Heating Rolls
- Thermostat with Sensor Probe Wire
- Custom Design Layout (provided free with quote)
- Digital Ohm Meter (required for completion of warranty registration card)
- Circuit Check (sold separately)
- Scissors
- Staple Gun or Hot Glue Gun (concrete applications)
- Duct Tape or Box Tape
- Flat Rubber Trowel (float trowel)
- Self-leveling Cement
- Urethane Adhesive (Mapei Ultrabond ECO 995 or similar)

Installation Recommendations:

Quarter-sawn wood flooring is recommended as it's always more stable under conditions of extreme moisture or heat, and is always a good choice over radiant heat. Plain-sawn wood will move more than quarter-sawn.

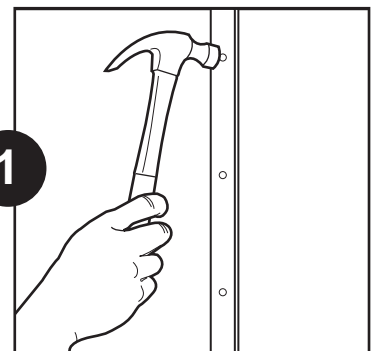
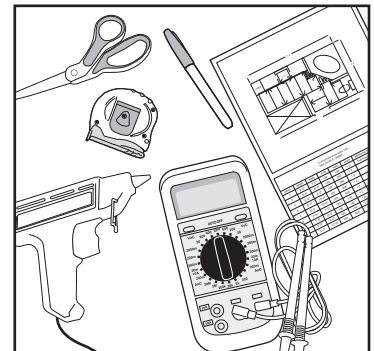
- ½" (inch) minimum plank thickness
- 4" (inch) maximum plank width for plain-sawn
- 6" (inch) maximum plank width for quarter-sawn
- Beech species not recommended as they are too unstable
- Solid Hardwood recommended to be installed on and above grade only
- Engineered Wood can be installed below, on, and above grade
- Solidsawn engineered wood only (no rotary-peeled or sliced, due to checking)

Preparation

1. Cross-check the items 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.
2. Perform 1st ohm test - 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. 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.
3. Detach the UL label from the WarmlyYours roll and affix it on the fuse/breaker box.
4. Prepare the subfloor to be clean and free of debris.
5. Make any adjustment in the layout PRIOR to installation.

Step 1 – Install Wood Sleepers

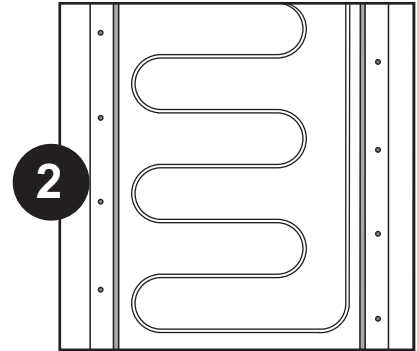
1. Install wood sleepers (strips of wood 1"-2" wide X 3/8"-1/2" high, spaced 19 inches apart) across the entire plywood subfloor leaving appropriate space for any planned cuts and turns.
2. The sleepers are installed to create lanes into which the 18" wide warming system roll will be placed.





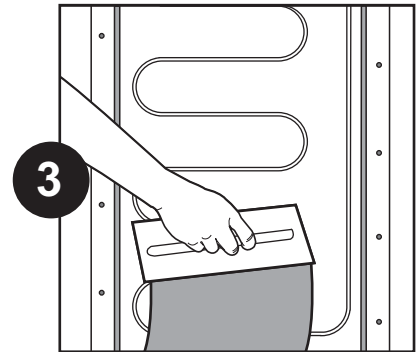
Step 2 – Install WarmlyYours Heating Rolls

1. Install the floor heating system as recommended into the lanes created by the sleepers adhering the mesh every 6-8 inches with hot-glue or staples (green mesh only, never staple over wires).
2. Carefully route the power leads alongside the system within the lane and back to the power supply, making sure that the leads do not pass over the sleepers or the heating wire.
3. Install the thermostat sensor probe (if applicable) 6" into the heating mat, centered directly between the heating wires. Sensor wire should not cross over heating wires.
4. Perform 2nd ohm test.



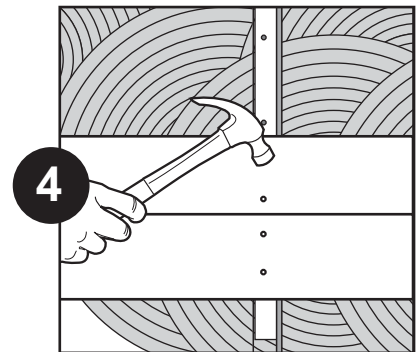
Step 3 – Cover Heating Rolls With Self-Leveling Cement

1. Connect circuit check (if purchased) to each roll. Once the system is in place, the heating mats should be covered with 3/8" self-leveling cement up to and even with the top of the wood sleepers. Use a float trowel to spread the self-leveling cement.
2. Follow the self-leveling cement manufacturer's recommendations and allow proper cure time before moving to the next step.



Step 4 – Install Hardwood / Engineered Wood Flooring

1. Once the self-leveling cement has cured properly, the flooring can then be installed as per the manufacturer's recommendations.
2. Apply urethane adhesive directly to the cured self-leveling cement and wood sleepers as per manufacturers recommendation.
3. Nail the wood flooring into the wood sleepers as per flooring manufacturer's recommendations (minimum every 4 inches for wide plank floors / closer intervals for narrower plank floors). Be careful not to place nails or staples near the system's heating cable or power leads.
4. Perform and record 3rd ohm test on Warranty Registration Card.



Step 5 – Electrical Connections

1. The electrical wiring should follow the wiring instructions provided with the thermostat.
2. The thermostat is mounted in a double-gang wall box with a single 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.

