ELECTRIC FLOOR HEATING
INSTALLATION CHECKLIST

A jobsite checklist for installation day.

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PROJECT INFORMATION

Project / Customer: _____ **Room / Area:** _____

Project Address: _____

Installer / Contact: _____ **Install Date:** _____

1 WORK AREA & TRADES

- [ ] Area clear of unrelated tools, materials, and debris
- [ ] Installer has full access to the heated area
- [ ] Other active work won't interfere with layout
- [ ] Electrician available if needed
- [ ] Tile, waterproofing, and flooring trades know when they can enter
- [ ] Everyone knows when elements will be exposed

Other trades needing the floor should finish before layout.

2 SYSTEM & MATERIALS

- [ ] Heating system type and voltage match the plan
- [ ] Mat size, coverage, or cable length is correct
- [ ] Room or zone assignment is correct
- [ ] Thermostat, floor sensor, and alarm or monitor on hand
- [ ] Membrane, clips, guides, straps, or fasteners on hand
- [ ] Mortar, adhesive, or leveling compound on hand
- [ ] Waterproofing materials on hand if required
- [ ] Installation and testing tools ready
- [ ] Manufacturer instructions on site

Keep each room's or zone's system and parts separated and labeled.

3 INITIAL TESTING

- [ ] Element resistance within the manufacturer's range
- [ ] Ground testing complete
- [ ] Floor sensor tested where required
- [ ] Initial readings recorded
- [ ] Alarm or monitor connected where required

Reading out of range? Don't continue until it's resolved.

4 HEATING LAYOUT

- [ ] Elements stay within the approved heated area
- [ ] Required clearances and spacing maintained
- [ ] Elements don't cross, overlap, or bunch
- [ ] Cold leads reach the thermostat box
- [ ] Factory splices positioned correctly
- [ ] Floor sensor placement meets requirements
- [ ] Sensor and cold lead wiring clear of elements
- [ ] Heating mats/cables: ensure mat or cable spool fits the approved area before install or unspooling the cable
- [ ] Tape or mesh-backed mats: only the mesh or backing is cut, never the heating wire

Doesn't fit? Stop before securing and review the layout.

5 WET-AREA LAYOUT (IF APPLICABLE)

- [ ] Separate mat, cable spool, thermostat, or zone used where required
- [ ] Required clearance from the drain assembly maintained
- [ ] Elements clear of waterproofing seams, penetrations, and drain parts
- [ ] Power lead splice at least 12 inches outside the wet area
- [ ] Cables or mats exit at the entry, not through the wall

Fix wet-area issues while the system is still exposed and adjustable.

6 SECURING THE SYSTEM

- [ ] Fastening method matches system type and manufacturer
- [ ] Element undamaged and held at the required position and spacing
- [ ] Heating mats lie flat, with no wrinkles or gaps
- [ ] Tape mats: mesh or backing secured without changing wire spacing
- [ ] Loose cable in membrane: fully seated in studs or channels
- [ ] Loose cable with clips, guides, or straps: held securely, not pinched or crushed

Fix movement, spacing, or fastening issues while the system is accessible.

7 TESTING DURING INSTALLATION

- [ ] Readings consistent with the initial measurement
- [ ] Resistance within the manufacturer's range
- [ ] Ground testing complete
- [ ] Alarm or monitor shows no fault
- [ ] Results recorded at each required stage

Reading changed? Stop work to troubleshoot and correct the issue.

8 PROTECTING THE EXPOSED SYSTEM

- [ ] Sharp tools and loose fasteners kept away from elements
- [ ] No tools, buckets, or materials placed or dragged on mats or cable
- [ ] No heavy materials resting on elements
- [ ] Foot traffic restricted
- [ ] Alarm or monitor still connected where required
- [ ] Unrelated work kept out of the area
- [ ] Other trades know exposed elements are present