

HydroHeat
UNDERFLOOR HEATING LTD

# Lo-Float

## INSTALLATION HANDBOOK

A professional guide to installing the
Lo-Float floating underfloor heating system

**LOW PROFILE**
35mm nominal build-up

**16mm**
PE-RT pipe

**TYPICAL SPACING**
150mm centres

1 Subfloor preparation
2 Perimeter insulation
3 Install panels
4 Install pipework
5 Pressure testing
6 Prime & level
7 Floor finishes
8 Commissioning

# 01 SUBFLOOR PREPARATION

- Ensure the supporting floor is structurally sound, dry, level and free of debris and dirt.
- Where necessary, level the substrate using a suitable product.
- Confirm substrate suitability and concealed services before drilling.

# 02 PERIMETER INSULATION

- Install the supplied 8mm expansion foam around the perimeter and fixed penetrations using the self-adhesive strip.
- Extend from the supporting base to finished floor level; allow for 5mm screed movement.
- Retain the plastic apron beneath the panels.



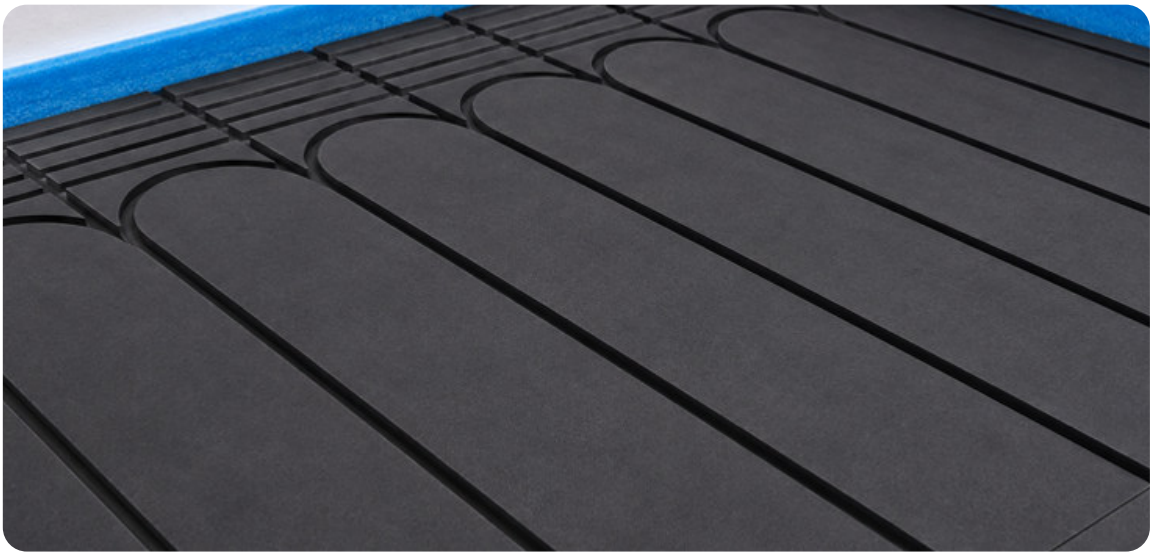
## TOOLS & MATERIALS

Straight edge, pencil, fine-tooth saw or scoring knife; 10mm drill bit, drill and hammer; pipe cutter, adjustable spanner, filling hoses and pressure test equipment; roller and tray, mixing buckets, mixer, trowel and spiked roller. Use appropriate PPE and safe working procedures.

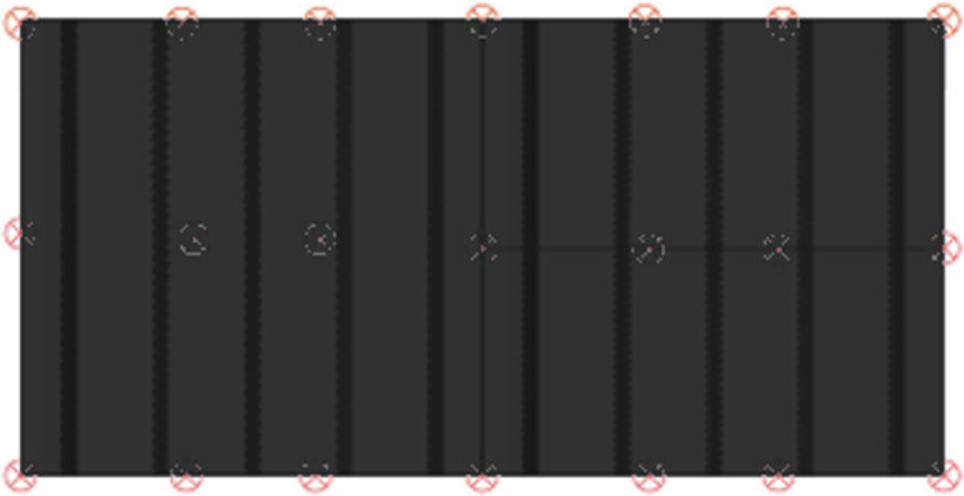
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# 03 INSTALL THE PANELS

- Lay the 25mm routed panels over the edge insulation apron, covering the floor as shown on the HydroHeat CAD design.
- Align channels and returns towards the perimeter. Mark cuts with a straight edge; use a fine-tooth saw or score and snap where suitable.
- Use the supplied plastic anchor bolts and a 10mm drill bit. Drill at the positions shown, insert the anchor and hammer the insert flush.
- Secure additional lifting points. Verify substrate and fixing suitability before drilling.



## PANEL FIXING



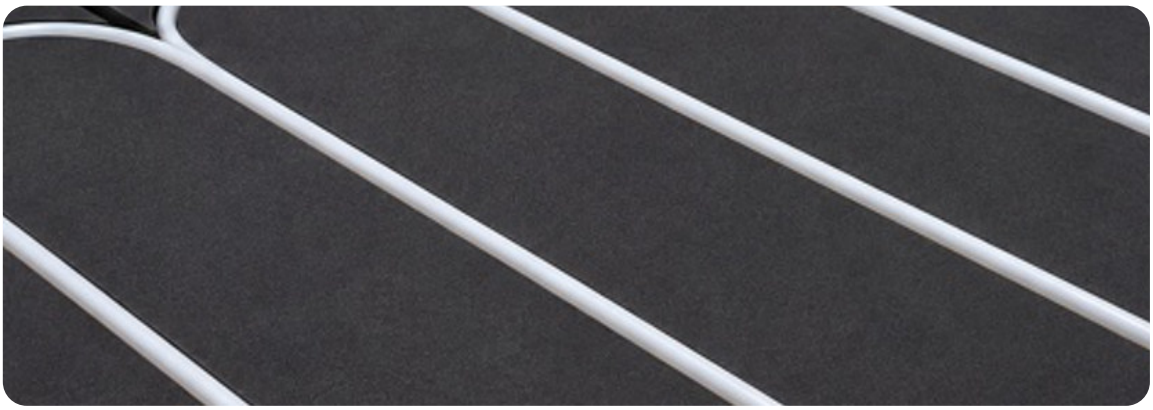
Follow the project CAD design and original fixing positions.

**Photograph the panel and pipe installation before covering.**

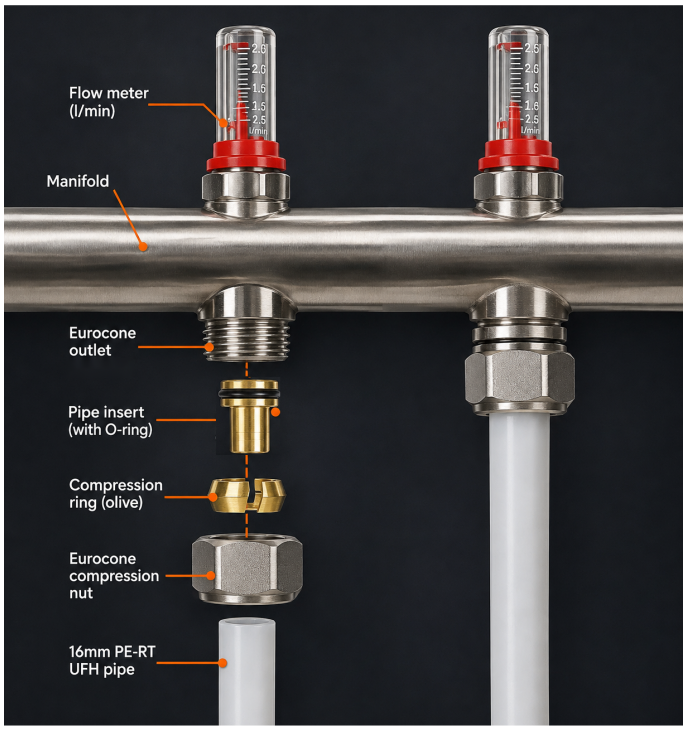
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# 04 INSTALL THE PIPEWORK

- Cut pipe square and check for damage. Fit the Eurocone nut, olive and insert in accordance with the supplied fitting instructions.
- Connect to the manifold using an adjustable spanner and label each circuit.
- Follow the CAD design using serpentine routing only. Seat the 16mm pipe fully in the channels without kinks.
- Fill and flush one circuit at a time until air bubbles cease; open flow meters as required. Repeat for every circuit. Use compatible water treatment as specified.



## EUROCONE CONNECTION — ILLUSTRATIVE



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# 05 PRESSURE TESTING

- Isolate equipment not rated for the test pressure. Test with water at 3 bar and inspect all circuits for leaks.
- Increase to 6 bar, inspect again and hold for at least one hour. Record the result; investigate leakage or unexplained pressure loss before proceeding.

## PRESSURE TESTING SEQUENCE




**3 bar**
Initial inspection




**6 bar**
Minimum 1 hour




**3 bar**
Pour & cure

- Reduce to 3 bar before pouring and maintain until fully cured. Keep heating switched off. Follow component pressure ratings and the HydroHeat commissioning guide.

## PRESSURE TEST RECORD

| | |
|---|---|
| **Project / circuit reference** | |
| **Test date / installer** | |
| **6 bar start time / end time** | |
| **Start pressure / end pressure** | |
| **Result / corrective action** | |

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# 06 PRIME & LEVEL

## APPLY COMPATIBLE PRIMER

- Use a primer approved by the compound manufacturer for routed XPS and water UFH.
- Apply using the specified method, working towards the exit.
- Observe coverage, drying time and surface preparation requirements.



## POUR LEVELLING COMPOUND

- Plan mixing, access and finished levels before pouring.
- Use a compound specifically approved for this construction and thickness. Follow mixing, application and curing instructions.
- Achieve 10mm covering above panels and pipe; maintain 3 bar.



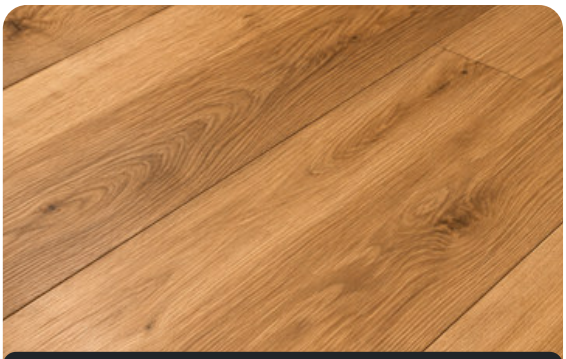
## IMPORTANT

The compound manufacturer must confirm suitability for routed XPS, water UFH and the specified thickness. If requirements conflict, stop and obtain technical advice. Confirm compatibility, coverage and curing requirements. HydroHeat does not supply these products.

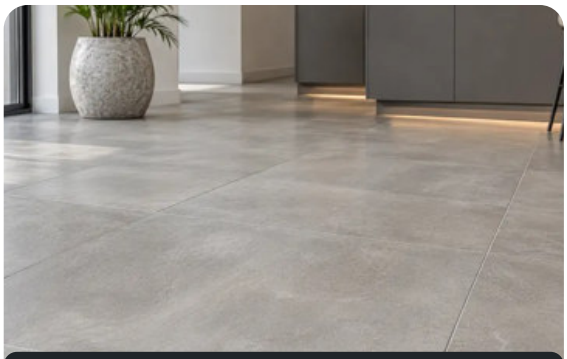
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# 07 FLOOR FINISHES

- Keep heating off until fully cured. Protect the surface and observe temperature, moisture and movement-joint requirements.
- Trim excess perimeter strip only when appropriate; preserve required movement gaps.
- Once cured and moisture conditions and any prescribed heat-up checks are satisfied, install suitable flooring. Follow flooring, adhesive and underlay manufacturer requirements and temperature limits.



Wood & laminate



Tile



LVT / vinyl



Carpet

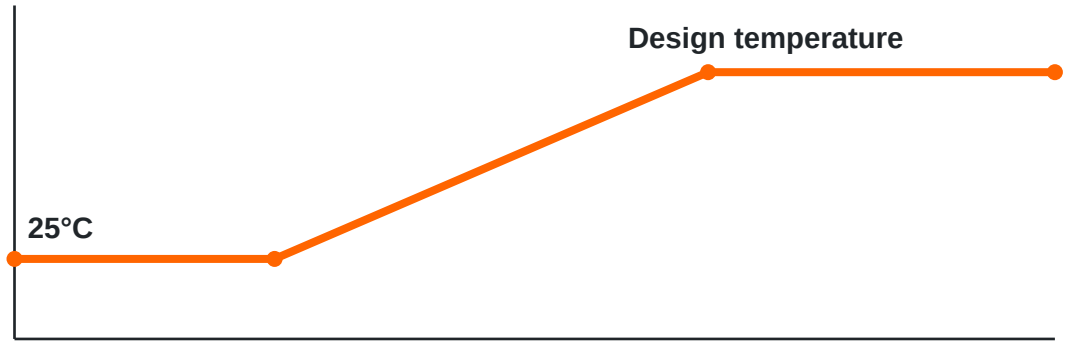
**See page 8 for initial heat-up and commissioning requirements.**

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# 08 COMMISSIONING

- After full curing, follow the HydroHeat initial heat-up programme, subject to compound and flooring manufacturer requirements.
- Set circuit flow rates to the project design with the pump running, using the specified manifold adjustment method.

## 12-DAY INITIAL HEAT-UP PROGRAMME




| Days 1–3 | Days 4–8 | Days 9–12 |
|---|---|---|
| INITIAL | GRADUAL INCREASE | MAINTAIN |

Schematic only. Increase gradually to project-specific design flow temperature, then hold. Do not exceed system, compound or floor covering limits. No universal maximum flow temperature is specified.

## COMPLETION CHECKLIST

- [ ] Subfloor prepared and perimeter insulation installed
- [ ] Panels correctly positioned and secured
- [ ] Pipework installed to CAD design and photographed before covering
- [ ] Pressure test completed and recorded
- [ ] Approved primer and compound applied; 10mm covering achieved
- [ ] Curing and moisture requirements satisfied
- [ ] Circuit labels and design flow rates checked
- [ ] Commissioning temperatures and programme recorded
- [ ] CAD layout, manufacturer instructions and warranty documents handed over

## WARRANTY & HANDOVER

Individual component warranties vary by supplying manufacturer; no separate system-wide warranty is offered.

## TECHNICAL SUPPORT

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www.hydroheatufh.co.uk
Read with the Lo-Float Technical Datasheet and HydroHeat Commissioning & Pressure Testing Guide.