

Low Profile Screed System – Solid Floor

Data Sheet

PRODUCT INFORMATION

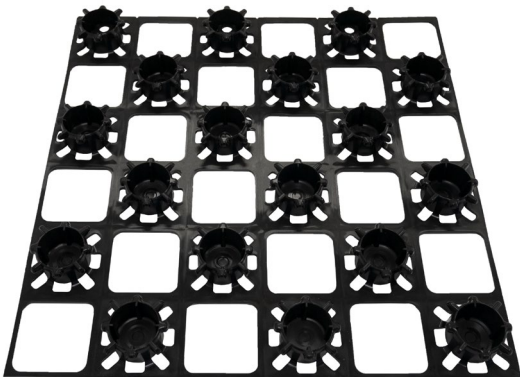
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Product Code: UFHLP1 | UFHLP2

Predominately installed in new build or renovation where a floor requires excavation – Polypipe Underfloor Heating's new Low Profile system is designed for solid or screeded floors.

The Low Profile Screed System is a low profile injection moulded underfloor heating system, designed for refurbishment projects (RMI) where any increase to the floor build-up is at a premium.

The panels are manufactured from 100% recycled polypropylene, incorporating a v-notches which enable the panels to be cut to size quickly and easily using just a Stanley knife, thus allowing quick and easy installation in any size or shaped room.



The panels interlock for easy storage and carrying and also form a precise grid for the pipe, ensuring that the minimum pipe bend radius is achieved. The unique design of the castellation incorporates fixing points in the centre which enables the panels to be mechanically fixed to the sub-floor and also acts to protect the pipe from damage caused by onsite foot traffic.

In addition, the panel has been designed so that 15mm & 16mm diameter pipe can be installed in either a serpentine or snail pattern with pipe centres increasing in 50mm increments i.e. 100mm, 150mm and 200mm.

Polypipe's Low Profile Screed System (1200mm x 600mm x 20mm) is supplied with and without a fast grab self-adhesive backing, offering rapid installation.

Product Code	Description	Pack Quantity
UFHLP1	UFH LOW PROFILE SYSTEM 1200MM X 600MM x 20MM (NO ADHESIVE)	1
UFHLP2	UFH LOW PROFILE SYSTEM 1200MM X 600MM x 20MM (WITH ADHESIVE)	1

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Key Design Information

Typical Heat Output at 50°C Mean Water Temperature	91W/m ² at 100mm Pipe Spacing
Recommended Design Flow Temperature	50°C
Maximum Circuit Length	120mm
Maximum Coverage per Circuit	11m ² at 100mm centres 22m ² at 200mm centres 30m ² at 300mm centres
Dimensions	1200mm x 600mm x 20mm

Approximate Usage

Panel Usage	Total area/0.72m ² (allowing for cutting)
Edge Expansion	1.1m/m ²
Ultra-Flexible UFH Pipe	9m/m ² at 100mm centres 4.5m/m ² at 200mm centres 3.3m/m ² at 300mm centres
UFH Conduit	2m/circuit length

Product Installation Information

- Insulation should be installed in accordance with BS EN1264 1-4 so as to minimise any downward heat loss to <10W/m². This is an extra layer of insulation material in addition to the layer of insulation required under Part L of the Building Regulations. However, if the Part L insulation layer is positioned directly beneath the heated floor then this would meet both demands. It is the responsibility of the Contactor or Architect to provide guidance on the type of thermal insulation required so as to ensure compliance.
- The edge expansion strip allows the free expansion of the floor screed. The expansion strip comes with a self-adhesive strip, which enables faster installation. It should be installed around the perimeter wall and around fixed constructions such as columns, steps and access doors.
- The edge expansion features a plastic apron, which lays over the top of the insulation panel to prevent the screed seeping in and lifting the panels. Edge expansion strip should be fitted in addition to perimeter insulation as required by building regulations.
- If a liquid screed is being applied, the insulation must be taped and sealed to provide a watertight layer.
- Polypipe ultra-flexible underfloor heating pipework is installed in circuits and secured by the unique pipe retention ridge built into the castellation design.
- The underfloor pipework is then connected to the manifold and then pressure tested to 6 bar. It is also highly recommended once the system is pressure tested to add an appropriate percentage of antifreeze/inhibitor.
- As soon as practical after the installation is completed, the screed should be laid over the system to the required depth.