

Clip Rail – Solid Floor

Data Sheet

PRODUCT INFORMATION

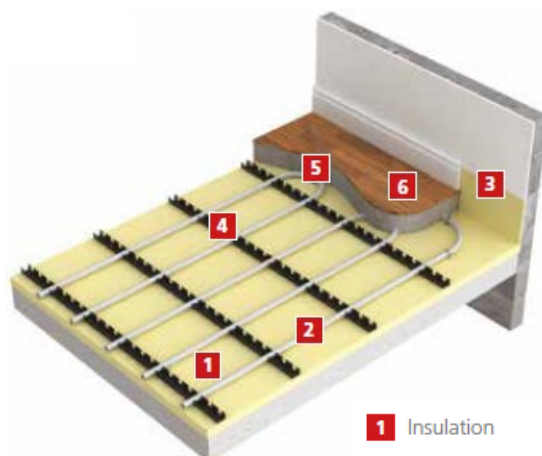
ISSUE 1 – NOVEMBER 2020

Product Code: PB08515 (Pack Qty. 16)

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

The rails are simply installed directly on to the insulation allowing for parallel pipe positioning enabling uniformed heat distribution.

The system includes edge expansion strip to ensure maximum performance and efficiency.

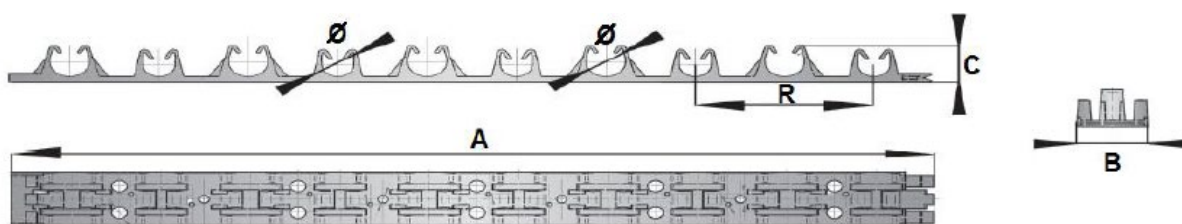


- 1** Insulation
- 2** Pipe
- 3** Edge expansion
- 4** Clip rail
- 5** Screed
- 6** Finished floor

Product Information

Polypipe's clip rail system fits directly onto the insulation layer that is laid before the solid floor is installed. The Clip Rail is manufactured from 100% recycled plastic ensuring minimal carbon footprint.

It has been designed so that Polypipe's ultra-flexible underfloor heating pipe can be installed at 200mm or 300mm pipe centres.



Product Code	Length 'A' (mm)	Width 'B' (mm)	Height 'C' (mm)	Pipe Diameter 'φ' (mm)	Clip Spaces 'R' (mm)	Colour
PB08515	1000	40	28	15,16 & 18	50	Black

The rails come with a self-adhesive strip enabling quick and easy installation. For areas where the rail slightly lifts use Polypipe's Standard Pipe Clips 'PB02911'.

PRODUCT INFORMATION

ISSUE 1 – NOVEMBER 2020

Key Design Information

Typical Heat Output at 50°C Mean Water Temperature	76W/m ² at 200mm Pipe Spacing
Recommended Design Flow Temperature	50°C
Maximum Circuit Length	120mm
Maximum Coverage per Circuit	22m ² at 200mm centres 30m ² at 300mm centres
Dimensions	1000mm x 40mm x 28mm

Approximate Usage

Clip Rail Usage	1 x 1m rail/1m ² of floor area
Clips	1 x bag (250 per 50m ²)
Edge Expansion	1.1m/m ²
Ultra-Flexible UFH Pipe	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 Part 'L' of the building regulations: a suitable layer of thermal insulation must be included within the floor construction. It is the responsibility of the Contactor or Architect to provide guidance on the type of thermal insulation required and 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 in position via the unique clipping mechanism.
- 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.