

# Overlay® Lite 15 – Suspended Floor

Data Sheet

## PRODUCT INFORMATION

ISSUE 2 – APRIL 2022

Product Code: PB08030

Designed for use in timber suspended or battened floors, Polypipe's suspended floor system uses pre-grooved insulation panels to transmit the heat evenly across the finished floor surface.

The panel is suitable for a wide-range of joist widths and can be simply cut to size using a sharp Stanley knife; wooden support battens should be fixed to either side of the joists at a depth that ensures that the panels are in direct contact with the underside of the structural floor, thus ensuring optimum system performance.

Polypipe's ultra-flexible underfloor heating pipe is then run into the pre-formed grooves of the panel, which are designed to hold the pipe securely in position.

Polypipe's suspended floor system is also suitable for use with "sprung" flooring systems.

### Product Information

The main component of the Overlay® Lite 15 panel is manufactured from a high-density, ridged polystyrene foam; the layer provides thermal insulation and reduces downwards heat loss.

The second layer is a high-performance aluminium, this allows heat to dissipate laterally reducing the occurrences of "hot & cold spots" across the floor. Polypipe's Overlay® Lite 15 panels accommodate for 15mm diameter pipe only.



| Product Code | Description                  | Pack Quantity |
|--------------|------------------------------|---------------|
| PB08030      | Overlay® Lite 15 Floor Panel | 10            |

### PRODUCT INFORMATION

ISSUE 1 – NOVEMBER 2020

#### Key Design Information

|                                                    |                                                             |
|----------------------------------------------------|-------------------------------------------------------------|
| Typical Heat Output at 50°C Mean Water Temperature | 68W/m <sup>2</sup> at 200mm Pipe Centres at a (Max 0.5 TOG) |
| Recommended Design Flow Temperature                | 60°C                                                        |
| Maximum Circuit Length                             | 100m                                                        |
| Maximum Coverage per Circuit                       | 22m <sup>2</sup> at 200mm average pipe centres              |
| Dimensions                                         | 1200mm x 800mm x 22mm                                       |

#### Approximate Usage

|                         |                                      |
|-------------------------|--------------------------------------|
| Panel Usage             | 1 panel x 1m <sup>2</sup>            |
| Ultra-Flexible UFH Pipe | 4.5m/m <sup>2</sup> at 200mm centres |
| Aluminium Tape          | 1 x 25m roll per 10m <sup>2</sup>    |

#### Product Installation Information

- It is essential that a suitable layer of thermal insulation be installed in areas where gaps are present in the suspended underfloor heating systems so as to minimise any downward heat loss. It is recommended that the thermal resistance of this insulation layer should not be less than 0.75m<sup>2</sup>K/W as specified in BS EN1264-4. The insulation should fit tightly between the joists.
- The panels should be installed tightly against the external wall and each adjacent panel should be taped together using the aluminium tape supplied as part of the Overlay® Lite 15 System, thus will ensure optimum system performance.
- Polypipe 15mm ultra-flexible underfloor heating pipework is installed in circuits and is fixed in position by the specifically designed pipe within the panel.
- 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 structural floor should be installed to prevent any damage occurring.