### PRODUCT INFORMATION

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Polypipe's patented Overlay<sup>™</sup> Plus underfloor heating board is a low-profile system that has been designed to be installed over existing floors. Making it the ideal product for renovation and new build projects.

The new Overlay<sup>TM</sup> Plus accommodates all types of floor coverings whilst remaining lightweight rigid and easy to install.

The panels are formed of extruded polystyrene giving them their lightweight feature while also providing additional properties such as; thermal insulation, decoupling and waterproofing. The panel features two thin layers of fibre-reinforced polymer concrete with a polyester fleece-coated layer on top of an reflective aluminium foil.

The aluminium layer is designed to evenly diffuse the heat from the pipes over the surface of the board. A version to reduce transmission of impact noise is available with a layer of synthetic rubber on the bottom side.



Overlay™ Plus Floor Panel	Pack Qty.	Code No.
1200mm (L) x 600mm (W) x 18mm (D) Overlay™ Plus Panel Pack	10	UFHOP10
1200mm (L) x 600mm (W) x 18mm (D) Overlay™ Plus Panel Pack	50	UFHOP50

Overlay™ Plus Acoustic Floor Panel	Pack Qty.	Code No.
1200mm (L) x 600mm (W) x 18mm (D) Overlay™ Plus Acoustic Panel Pack	5	UFHOPA5
1200mm (L) x 600mm (W) x 18mm (D) Overlay™ Plus Acoustic Panel Pack	50	UFHOPA50

# Overlay™ Plus - Low-profile System

## **Data Sheet**

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#### **Technical Properties**

The major component of the Overlay Plus Panel is rigid extruded polystyrene foam of a closed cellular structure. The core provides the following properties: Thermal Insulation, Decoupling and Waterproofing

The core is between two thin layers (0.75mm) of fibre-reinforced polymer concrete with a polyester fleece-coated layer of aluminium on the top. The aluminium layer provides the following property: Dispersion of heat from the pipes over the surface of the board.

A version to reduce transmission of impact noise is available with a layer of synthetic rubber on the bottom side. 12mm diameter groves are cut into the board's top surface to house the heating pipes.

#### Properties of Foam Component

Property	Assessed to	Rating
Density	DIN 53429	36 kg/m³
Thermal Conductivity (initial > 5 years)	EN 13164	0.27 - 0.034 W/mk
Compressive Strength (10% deflection)	EN 826	300kN/m <sup>3</sup>
Water Absorption (2-day immersion)	EN 12087	<1.0% by volume
Water Absorption (Capillary)	DIN 53428	Zero
Coefficient of linear expansion	ASTM E-831	0.07mm/mk
Water Vapour Diffusion Resistivity factor (µ)	EN 12086	110 - 225
Fire Behaviour	EN 13501	Euroclass E
ODP (Ozone Depleting Potential)		Zero
GWP (Global Warming Potential)		<0.29

#### Properties of Overlay™ Plus Panel

Dimensions	600 x 1200 x 18mm
Weight of the Panel	1.2kg
Heat Output at 50°c Mean Water Temp	82 W/m2

## Properties of Overlay™ Plus Acoustic Panel

Dimensions	600 x 1200 x 18mm
Weight of the Panel	2.9kg
Thickness of Impact Sound Layer (when present)	2mm
L <sub>w</sub> weighted impact sound reduction	31dB
Heat Output at 50°c Mean Water Temp	82 W/m2