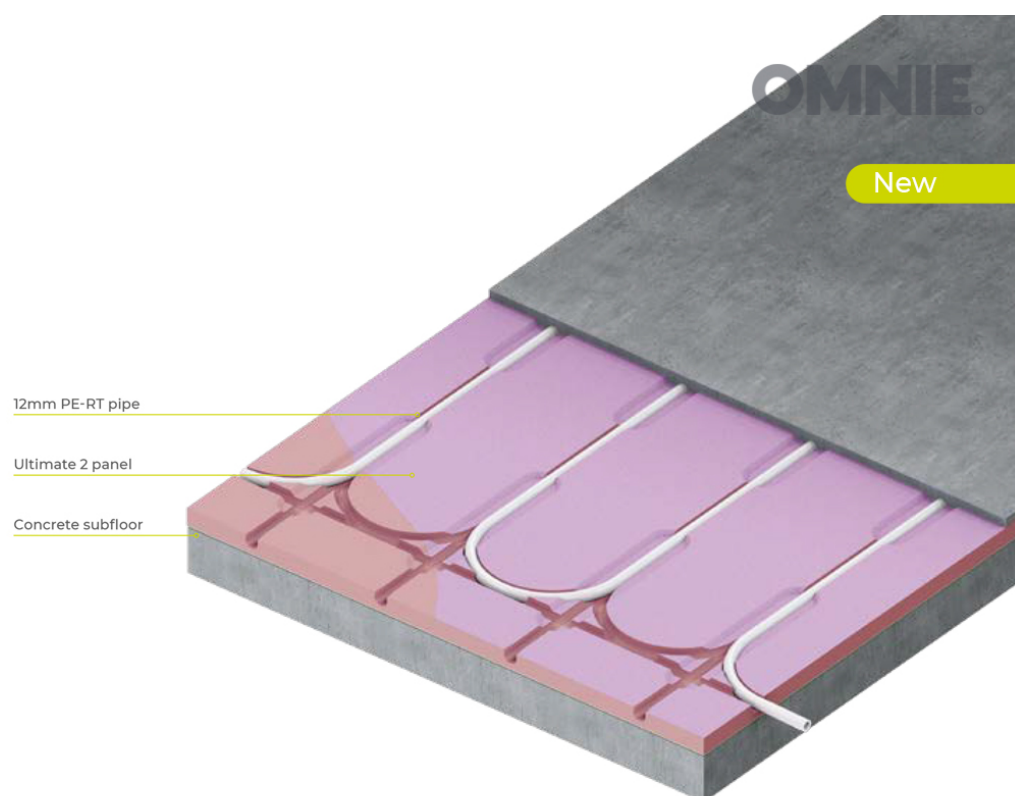


### INTRODUCTION

OMNIE Ultimate 2 is a low build up underfloor heating product manufactured from extruded polystyrene insulation (XPS) that enables all finishes including tiles to be laid on a solid screed floor, whether the subfloor make up is a solid slab/screed or a timber (suspended) deck.

The Ultimate 2 panels are multi-directional providing ease of installation of pipework and incorporate a 'diffuser channel' to increase the heat output compared to just simple routed channels. This 'diffuser channel' is simply a wide router channel that spans the pipe, dropping 2 or 3mm into the panel increasing the contact with the pipe by about 30%, which in turn increases the heat output and reduces the warm up time.

Ultimate 2 is designed to work in conjunction with quality levelling compound products (not specified or supplied by OMNIE) to overcome the usual issue of low build up floating floors moving. We have made the panel 50% faster to install by making it self-adhesive on the underside. Simply peel and stick to the subfloor and install the pipe.



SPECIFICATION

OMNIE Ultimate 2 system comprising of an 18mm thick extruded polystyrene insulation (XPS) with multi-directional routed pipe channels and 'diffuser channel'. The panels adhere to a suitably prepared slab or deflection free timber deck. PE-RT 12mm pipe to DIN 4726 to be inserted into the pre-routed grooves at 150mm centres, it must then be pressure tested before laying your self levelling screed and tiles or floor finish. (Always remember to follow the screed and flooring suppliers/manufacturers priming requirements and install instructions). The system to be designed, installed and commissioned to BS1264.

TECHNICAL DETAILS

- OMNIE Ultimate 2 Panel**

XPS extruded polystyrene panel with pre routed diffuser channels (k= 0.034W/mK), adhesive underside for rapid installation
- Compressive Strength**

280kPa
- Panel Thickness**

18mm (plus levelling compound /screed poured over)
- Panel dimensions**

1200 x 600mm
- Pipe**

12mm PE-RT to DIN 4726
- Pipe centres**

150mm
- Heat outputs**

As a guide the heat outputs below are based on 12mm PE-RT pipe at 150mm centres with 9mm screed laid over, followed by a vinyl floor finish. Room Temperature = 20°C.  
Heat outputs are dependent on the water temperature, floor construction, system dimensions, floor finish & design conditions.

CONTACT US for advice and information.

Floor Finish	55/48	50/43	45/38	40/33
2.5mm Vinyl (0.038) (9mm screed)	114.1 W/m²	95.8 W/m²	77.5 W/m²	59.1 W/m²

## PREPARATION

### Existing Slab

Existing slab to meet at least SR2 (5mm deviation in 2m) requirements for floor regularity (BS8204) and preferably SR1 (3mm deviation in 2m)

### Timber substrate

Timber substrate minimum 22mm tongue and grooved exterior grade plywood or 22mm tongue and grooved green chipboard screwed into the joists at no more than 400mm centres.

All floors must be clean and deflection free before laying the Ultimate 2 panel.

**Important:** Advice should always be sought when choosing your screed and floor finish products, paying attention to suppliers/manufacturers priming requirements and install instructions, and suitability to work with this system.