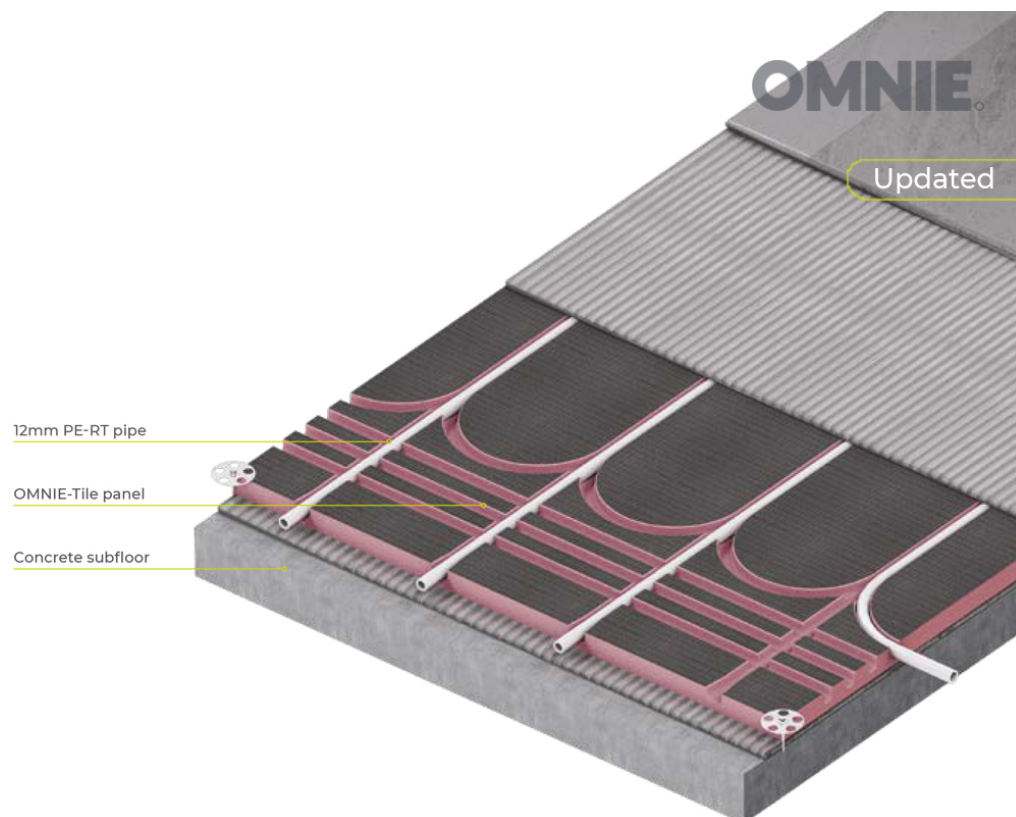


## INTRODUCTION

The OMNIETile system is a low build up underfloor heating product manufactured from cement faced extruded polystyrene insulation (XPS) that enables direct application of tiles with confidence on a firm tried and fully tested floor build up whether the floor make up is a solid slab/screed or a timber (suspended) structural floor deck.

The OMNIETile panels are pre-routed and are designed specifically for use with a tiled floor finish, to incorporate a level of thermal insulation to aid with prevention of downward heat loss, as well as having a surface which allows the tiles to bond properly.



SPECIFICATION

OMNIETile system comprising of a 20mm thick cement faced extruded polystyrene insulation (XPS). The panels are laid onto either; a suitably prepared slab using a flexible tiling adhesive or structural timber floor deck using specialist washers and screws as supplied by OMNIE.

PE-RT 12mm pipe to DIN 4726 to be inserted into the pre-routed grooves at 150mm centres. The system to be designed, installed, and commissioned to BS1264.

ULTRALOW

This product reduced build up compared to other available systems. For more information on UltraLow Technology see DS UFH 23

Can be tiled over directly.



TECHNICAL DETAILS

OMNIETile Panel

Cement Faced XPS extruded polystyrene panel with pre routed diffuser channels (k= 0.035W/mK)

Compressive Strength

300kPa

Fire Behavior

Class E EN 13164

Panel Thickness

20mm

Panel dimensions

1250 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 tiles applied directly to the top of the panels. 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

Flow/Return Temp	55/48	50/43	45/38	40/33
Tile Finish (0.015m <sup>2</sup> K/W)	90W/m <sup>2</sup>	75W/m <sup>2</sup>	60W/m <sup>2</sup>	47W/m <sup>2</sup>

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). We would also recommend that your existing subfloor is sealed using a suitable primer prior to laying the system.

## 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 deflection free before laying the OMNIETile panel.

**Advice should always be sought from the flooring supplier/manufacturer as to the best tile adhesive for use with their product when laying directly onto the panel surface.**