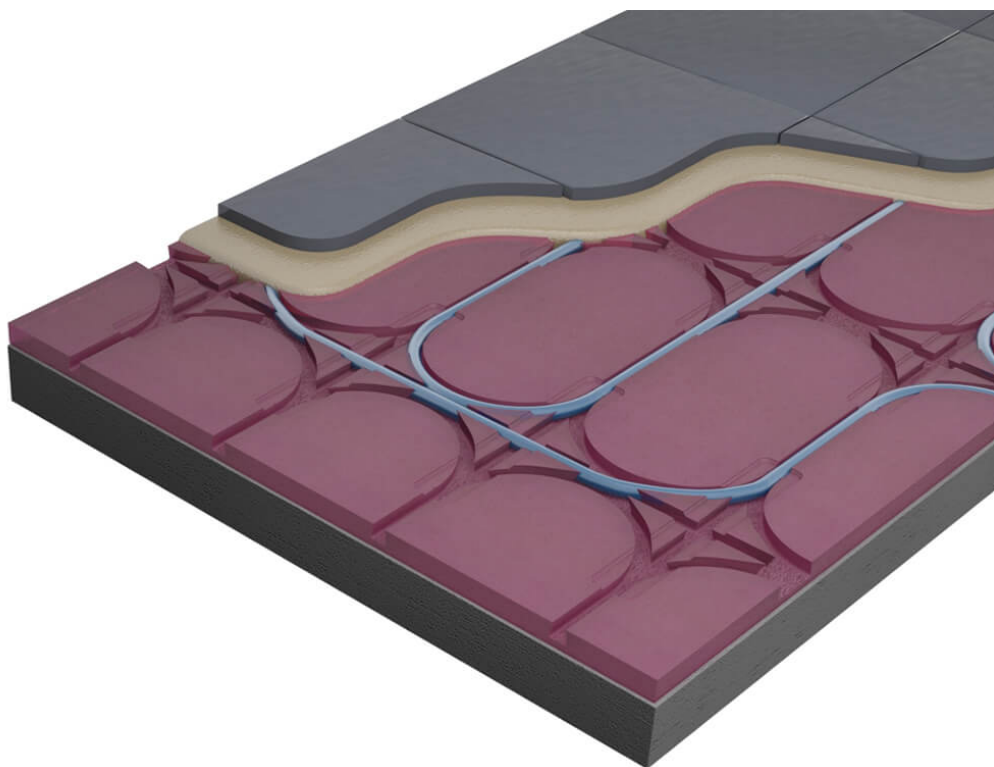


INTRODUCTION

OMNIE Ultimate2 is a low build up underfloor heating product manufactured from extruded polystyrene insulation (XPS) that enables all finishes including tiles to be laid 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) deck.

The Ultimate2 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.

It is designed in conjunction with our tried and tested leveling compound to overcome the usual issue of low build up floating floors moving as well as not having a surface which allows the tiles to bond properly. We have made the panel 50% faster to install by making it self-adhesive on the underside and pre-primed on the top. Simply peel and stick to the subfloor and pour the levelling screed over.



SPECIFICATION

OMNIE Ultimate2 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 timber deck. PE-RT 12mm pipe to DIN 4726 to be inserted into the pre-routed grooves at 150mm centres before 9mm of our self levelling compound is applied to receive the final bedding mix and tiles or floor finish. 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

LAYFAST - Speed up installation time. This product uses our multidirectional pipe channel system. For more information see DS UFH 22

TECHNICAL DETAILS

OMNIE Ultimate Panel

XPS extruded polystyrene panel with pre routed diffuser channels ($k = 0.034 \text{ W/mK}$), pre-primed and adhesive underside for rapid installation

Compressive Strength

280kPa

Panel Thickness

18mm (with a further 10mm of leveling compound 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) (10mm screed)	114.1 W/m ²	95.8 W/m ²	77.5 W/m ²	59.1 W/m ²

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 deflection free before laying the Ultimate2 panel.

Advice should always be sought from the flooring supplier/manufacturer as to the best adhesive for use with their product.

How to specify

We recommend that you order our products directly through us so that you obtain the most appropriate system and performance specification for the project.

Note – we provide you with the fundamental build up in order for you to then bed & apply your floor finish. Materials to create fundamental build up include: Ultimate2 panel and levelling compound at 10mm.