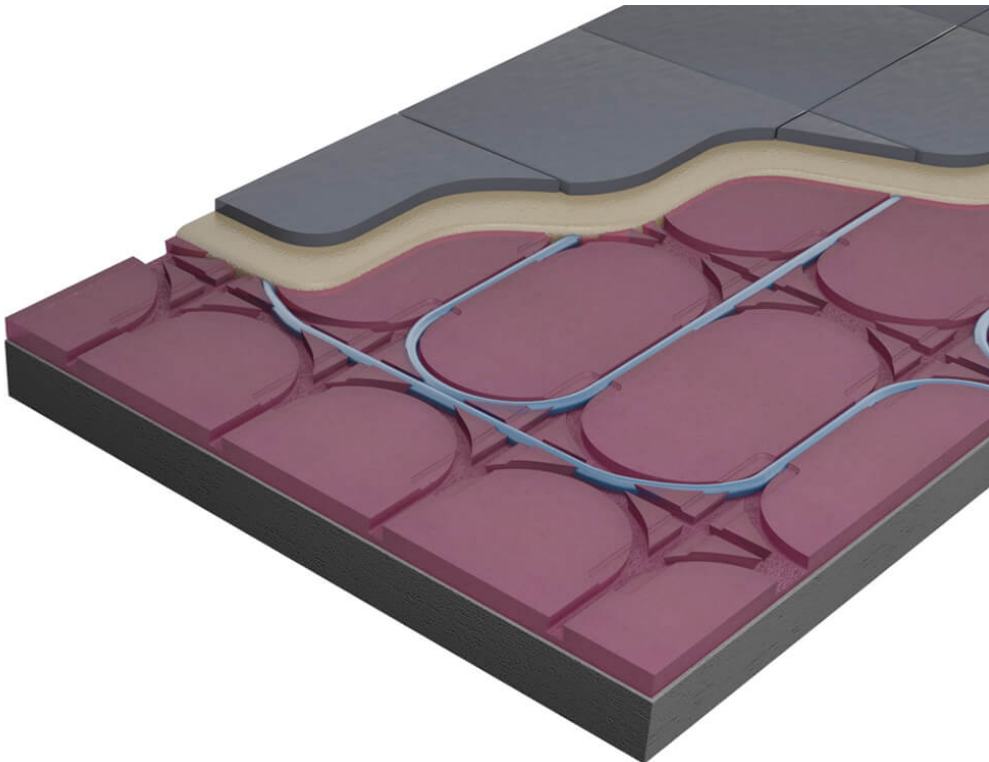


INTRODUCTION

OMNIE Ultimate is a low build up underfloor heating product manufactured from extruded polystyrene insulation (XPS) that enables tiles or vinyl 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 Ultimate 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 tried and tested primers, adhesive and leveling compound from Tilemaster Adhesives Ltd 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.



SPECIFICATION

OMNIE Ultimate system comprising of an 18mm thick extruded polystyrene insulation (XPS) with multi-directional routed pipe channels and 'diffuser channel'. The panels are adhered to a suitably prepared slab or timber deck using a primer and adhesive supplied by OMNIE which has been tested and specified by Tilemaster Adhesives. PE-RT 12mm pipe to DIN 4726 to be inserted into the pre-routed grooves at 150mm centres followed by a further layer of prime & grip before a min 5mm (tiles) or 9mm (vinyl) Tilemaster Levelflex self levelling compound is applied to receive the final bedding mix and tiled or vinyl 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

TILEOVER - Can be tiled over using our unique Tileover technology. For more information see DS UFH 28

TECHNICAL DETAILS

OMNIE Ultimate Panel

XPS expanded polystyrene panel with pre routed diffuser channels ($k= 0.034W/mK$)

Compressive Strength

280kPa

Panel Thickness

18mm

Panel dimensions

1200 x 600mm

Pipe

12mm PE-RT to DIN 4726

Pipe centres

150mm

Fully tested specialist products

Primer, prime & grip, adhesive and Levelflex self leveling compound (available from Omnie) to provide a firm base for laying tiles and vinyl. Tested and specified by Tilemaster Adhesives Ltd.

5mm (min) Levelflex for tiled finish

9mm (min) Levelflex for vinyl finish

Heat outputs

As a guide the heat outputs below are based on 12mm PE-RT pipe at 150mm centres with Specified Levelflex screed laid over. 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
Tile Finish (0.015m ² K/W) (5mm Levelflex)	124.0 W/m ²	104.1 W/m ²	84.2 W/m ²	64.2 W/m ²
2.5mm Vinyl (0.038) (9mm Levelflex)	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

Chipboard floors should be over boarded. All floors must be deflection free before laying the

Ultimate panel (see **Tilemaster Adhesives Specification and full Installation Guide for OMNIE Ultimate for full details**)

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

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 tiles or vinyl. Materials to create fundamental build up include: Prime plus, Ultimate adhesive, prime & grip, Ultimate panel and Levelflex.

Other materials detailed in specification & install guide can be ordered on request however these will typically be supplied by the installer.

Stage	Time	Action - all timeframes are based on ideal drying conditions (ie.dry 20 °C)
Stage 1	10-15 mins	Tilemaster Primeplus on slab/ply/bakerboard - allow become touch dry
Stage 2	15-25 mins	Tilemaster Prime & grip to underside of OMNIE Ultimate panel
	3 hours	Tilemaster Ultimate adhesive to bond OMNIE Ultimate panel down
		Install Pipe and Pressure test
Stage 3	15-25 mins	Prime & grip to top side of OMNIE Ultimate panel + non piped channels before
	3 hours	5mm Levelflex + non piped channels before
Stage 4	-	Apply Setaflex & Tiles (Typically Supplied by tiler/others)