



System **IDEAL** High density polystyrene panel based system

INTRODUCTION The JUPITER IDEAL underfloor heating system is a 'dry installed' panel based system consisting of 30mm thick EPS 035 polystyrene elements with integral aluminium heat diffusion plates on their surface. Dry installed means that no screed is required which in turn leads to faster installation and quicker heating up times. There are two types of panel, Central Zone (CZ) panels with 2 pipes at 250mm centres and Edge Zone (EZ) panels with 4 pipes at 125mm centres. CZ panels are used in main living areas and EZ panels are used near large areas of glazing, bathrooms or simply when higher heat output is required. The 'pre-scored' panels are 1000 mm x 500 mm and can be 'snapped' to fit on site. JUPITER supplies all additional equipment such as manifolds, thermostats and blending valves to connect our UFH system to any type of boiler.

HOW IT WORKS?

Water is heated by a boiler or other heat source and pumped to the JUPITER manifolds located on each floor. The manifolds distribute the water around the heating circuits in the various rooms which then returns to the heat source for re-heating. The heat from the warm water is transferred through the pipe and aluminium plates to

the floor surface above. The aluminium plates ensure an even floor temperature. Once a room temperature has been achieved a thermostat sends a signal to a valve on the manifold which is then closed. Underfloor heating requires a far lower water temperature than radiators so typically the running costs are less.

FLOOR CONSTRUCTION - above our system

Solid timber, engineered boards and even laminate flooring can be installed directly on the JUPITER IDEAL panels. We do recommend that you check with your supplier on their preferred installation procedures, overall experience with UFH and guarantee (A20). You can also contact us for further advice on timber floor finishes. If you wish to apply carpets, tiles, linoleum etc. you will need to install a load bearing surface on our heating panels first. In order to maximise

heat output we recommend using either Fermacell Flooring Elements (A10) or our own 20mm Screed Replacement Tiles, S.R.T. (A40) as a load bearing surface. The Screed Replacement Tiles can be used as a finished floor and come in a range of colours. A table listing heat outputs of both of these systems is available upon request. For design load data please contact us for the authorised areas of application for both Fermacell and the S.R.T. system.

<p>A20</p> <p>System IDEAL with solid wood floor or laminate as finished floor</p>	<p>A10</p> <p>System IDEAL with Fermacell floor elements and wood, tile or carpet as finished floor</p>	<p>A40</p> <p>System IDEAL with our Screed Replacement Tile and wood, tile or carpet as finished floor</p>	<p>C10</p> <p>System IDEAL with Kingspan Kooltherm® K3 insulation and 2E22 PART L solution.</p>

FLOOR CONSTRUCTION - below our system

The JUPITER IDEAL elements can be used on all forms of floor construction. On ground floors the system can be used in conjunction with concrete slabs, beam and block or traditional timber floor constructions. If an increase in floor height is an issue the IDEAL panels can be trimmed and installed between joists of varying centres - see our Between Joist leaflet for further

information. If height increase is not an issue then the IDEAL panels can be laid on existing floorboards. Additional insulation maybe required to ensure that installations meet current building regulations in which case we recommend Kingspan Kooltherm® K3 (C10). Please contact us for further details on additional insulation and their authorised loading capacities.



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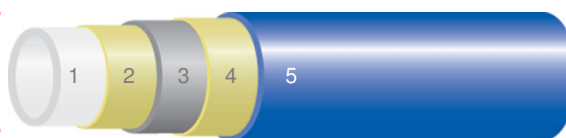
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JUPITER PIPE

At the core of the JUPITER heating system is our multi layer metal / polyethylene PE-RT pipe. The advantages of both metal and polyethylene are combined to give an air tight, long lasting and corrosion free pipe. JUPITER multi layer pipes are tested and approved to the highest standards.

- 1 Polyethylene pipe
- 2 Adhesive layer
- 3 Aluminium pipe
- 4 Adhesive layer
- 5 Polyethylene pipe



INSTALLATION

In most cases JUPITER IDEAL underfloor heating systems are installed either by our own engineers or through our network of installers. It can be installed by self builders and we have a comprehensive DVD which demonstrates all aspects of installing our different systems. We also supply heating circuit layout drawings as well as ongoing support and advice.



THE BENEFITS

- Low construction height
- Heats up in minutes rather than hours
- Energy efficient
- No screed required
- Maintenance free
- Quick installation
- Space saving
- Ultra high density 240 kPa polystyrene panels

GUARANTEE & CERTIFICATION

The JUPITER IDEAL UFH system and associated products has been tested to, and met the following standards: BS EN 1264, DIN 1055, DIN 4108, DIN 18202, EnEV. All JUPITER products are guaranteed for 10 years (except for electrical items which are guaranteed for 1 year). Our PE-RT multi pipe has a design life span of 50 years.



RESEARCH AND DEVELOPMENT

Our R&D department are continually exploring new ideas and materials to ensure that the JUPITER product range remains technically, the market leader.

ACCESSORIES AND TOOLS

We provide a comprehensive range of accessories for all heating and domestic water supply installations. We also hire our range of tools which are required for a correct installation of our system. Please see additional Tool Hire Leaflet. JUPITER supplies all additional equipment such as manifolds, thermostats and blending valves to connect the UFH system to any type of boiler.

WORKING IN CONJUNCTION WITH:

fermacell

Kingspan

CREATON
NATURAL CLAY SETS THE TONE

