

**Warmup**<sup>®</sup>

**Projects Division**

—  
**Product Book**





Kitchen / Dining

A8 150  
68

A7 150  
65

A6 150  
61

Warmup

Project Division

Product Book  
September 2024

# Welcome to Projects.

Our experienced team work closely with builders, architects, M&E designers, developers and contractors to produce optimized UFH systems, fit for purpose, including low-carbon products and services for domestic and commercial projects across the world. For the duration of your project we will provide personalized support, from issuing system layouts, installation services, to longterm end user support.

## Consultation

- R&D-based knowledge
- Building regulations
- Energy sources
- Floor build-up

Our team of experts will assist you in selecting the most appropriate heating system to meet your requirements. We scrutinize both local and regional regulations, advising you on all steps from subfloor to final floor finish.

The system we propose is designed to deliver optimum results for maximum value. We are unbiased to which system we provide, matching each project with the most effective solution from our wide range of water, electric and hybrid systems.

## Detailed system layout

- Technical drawings
- Detailed floor sections
- Outline costs and specifications
- Heat & performance output tables

Working to your design requirements, we match or help create highly detailed system layouts for each stage of the project, from concept through to construction. Our qualified CAD team incorporates the development of the general layout, the external envelope and the principals from the project brief. Outline costs and specifications can be provided at this stage for project budgets, along with technical drawings, detailed floor sections, heat & performance output tables.

Working in collaboration with you, we coordinate your detailed drawings and any integrated interior designs with our own system layouts to provide the most fit for purpose solution.



**Howard Flood**  
Managing Director  
Project Division

# Contents.

## Warmup.

- 06 Vision
- 08 About
- 10 Accreditations
- 12 Research & Development
- 14 Underfloor heating
- 16 Smartcare preview
- 18 Sustainability

## Water.

- 20 Hydronic systems
- 22 VLo Ultra-12
- 24 VLo Econna-12
- 26 VLo Nexxa-12
- 28 Nexxa
- 30 Nexxa Peel & Stick
- 32 Nexxa Ins. & Acoustic
- 34 Clypso
- 36 Metro
- 38 Contura
- 40 Tectora
- 42 Forte
- 44 Hydronic overlay
- 46 Pipes
- 48 S3 Manifold system
- 50 Wiring Centre

## Electric.

- 52 Electric systems
- 54 DCM-Pro
- 56 StickyMat
- 58 Inscreeed
- 60 Loose Wire
- 62 Foil Heater
- 64 Electric insulation & overlay
- 66 Ultralight
- 68 Cement-Coated Ins. Boards
- 70 Insulated Underlay
- 71 Dual Overlay

## Thermostats.

- 72 Thermostats
- 74 6iE
- 76 Element
- 78 Konekt system
- 80 Tempo
- 81 Other thermostats

## Bathroom coll.

- 82 Bathroom Collection
- 84 Heated Towel Rails
- 85 Mirror Demister
- 86 StickyMat 3D

## Support.

- 89 Trade Counter
- 90 Warranties & tech. support
- 91 Global Projects Division
- 92 Smartcare

# We want to change the way people heat their homes.

And we believe that there is no better system than radiant floor heating. As the heating sector looks toward more sustainable innovations, our range of systems is positioned to be the future of heating.

Underfloor heating is up to 40% more efficient than traditional heating systems, allowing a cleaner, greener way to heat a home whilst providing lower running costs. As buildings across the world begin to utilise low-carbon technologies, based on our research our systems can offer radiant warmth to millions of people with a combined reduction of 170,000 t CO<sub>2</sub> by 2025.

We have been committed to a research- and development-led approach to product and system optimisation for over 30 years. As a result, we have a complete range of proprietary integrated systems and controls that are worldleading and that have been sold to over 2.5 million homes. We're incredibly proud to be the system of choice for homes, hotels, churches, synagogues, mosques, yachts, hospitals, schools, government buildings, and football stadiums around the world.

## Why Warmup

- We offer expert assistance in selecting suitable systems for the floor structure and finished floor surface, while taking local and national regulations into account.
- Our range of hydronic systems provides a comprehensive selection for designing the floor heating system, ensuring optimal heat up times, energy efficiency, and room compatibility.
- Our proprietary smart controls enable efficient control of all heating systems and integrate with major BMS platforms.
- We provide an accurate cost estimation for the system and its installation within two days.
- Our 24/7/365 technical helpline and national engineering team provide exceptional service levels and are always available to assist with any matters.
- At Warmup, we take pride in guaranteeing unparalleled service and support that is unique to our company.

# We are the world's best-selling floor heating brand.

With more than 2.5 million systems installed in 72 countries, Warmup is the world's best-selling floor heating brand.

We are a British-based research-driven company, focusing on developing innovative heating solutions that bring energy-efficient warmth to our customers' lives.

Warmup won the Queen's Award for Enterprise for International Trade, 2020.



The combination of our heating wires insulated with fluoropolymer, our Element, 6iE, and Tempo thermostats are patented, trademark protected, designed and owned by Warmup.

Warmup has a tradition for quality and innovation. Warmup is the only underfloor heating company whose products are UKCA marked, CE marked and accredited by more independent institutions than anyone else in the industry.

## Industry standards

### Building regulations

**Part E** — Warmup heating systems integrate into all common acoustic floor constructions – screed, suspended timber or dry floating floors – and are being continuously developed to ensure compatibility with all Building Regulations.

**Part L** — Levels of insulation within a building are of key importance, as the better insulated the house, the more efficient and cost-effective the heating system will be to run. UK Building Regulations have progressively required higher insulation standards and it is easiest to achieve a high standard of insulation during building or major renovation work.

**ISO 9001** — Warmup has ISO 9001:2015 certification. This certification confirms that Warmup operates and maintains rigorous quality management processes, for the design, development and delivery of underfloor heating products and services to our customers throughout the world. It ensures quality processes are followed within the business, which leads to increased productivity and efficiency in delivering solutions, as well as improving service levels and product quality to customers.

### NBS Source

Our products are listed on NBS Source, offering detailed construction product data and specifications.

**The environment** — We're proud of our alignment with the United Nations' Race to Zero initiative, as we remain committed to taking concrete steps towards mitigating climate change and reducing our carbon footprint. In line with the guidelines, we will be annually measuring and reporting our greenhouse gas emissions. Additionally, we have set a goal to reduce our emissions by 50% by 2030, and we are resolute in our pursuit of achieving full net-zero by 2050. Warmup already has clear goals, objectives, internal procedures and policies in place. These are used to manage our most significant aspects, e.g. emissions, waste-handling, utilisation of natural resources and energy efficiencies.



# The best warranties, installation guarantees and accreditations.

Warmup has been a leader in underfloor heating for 30 years. All the accreditations obtained symbolise the long-term quality of our products, and our experience makes it possible for us to guarantee the best products and service on the market.



If you accidentally damage a Warmup heater or pipe during installation, return it to Warmup and we will replace it with another of the same range and size for free.



PE-RT & PE-Xa Systems carry a Lifetime Warranty for greater peace of mind.

\* Visit [warmup.co.uk](http://warmup.co.uk) for details.



# World-leading research & development.

By continually investing in research and development, Warmup is able to foresee and respond to upcoming industry trends and technological developments. This guarantees you fast access to the latest innovations when it comes to underfloor heating design, energy efficiency and CO<sub>2</sub> emission reductions.

In addition to our EN442-2 Research Centre in Germany and the BRE's (Building Research Establishment) Dementia House in Watford, we operate a number of Family Monitored Houses.

This initiative grew out of the need to better predict the future energy use of houses using Warmup underfloor heating systems. Information is gathered every few minutes from many tiny sensors.

These sensors are strategically placed in each room to record air, floor, radiant, wire/water and external temperatures, along with relative humidities. They provide us with a unique, highly detailed view of the energy used for heating in real homes, by real people, to create their ideal living conditions.

We use this data, in combination with the discoveries made at our Research Centre, to improve our energy models, innovate with our product design and provide world class solutions to our customers.

The knowledge we have built up from this continuous effort allows us to consult with the Department for Levelling Up, Housing and Communities as they work on the Building Regulations, support the BRE with data for SAP.

Importantly, for our customers it allows us to answer questions from 'How much will it cost to run Warmup in my new house?' to 'How much will I save using Warmup UFH instead of radiators in my home?' and 'How much CO<sub>2</sub> will I save?'

>

Warmup Research Centre, Bremen, Germany.  
Laars Krueger, R&D Testing and Lab Manager.



# Benefits of underfloor heating.

Floor heating is the only way to create the ideal environment in a family room to balance floor and air temperature.

**Suitable for every type of project** — New-build, refurbishments and renovations.

**Appropriate for use under a wide range of floor finishes** — Stone, tile, wood, laminate, engineered wood, carpet, and vinyl. Warmup is also fully tested and compatible for use with LVT (Luxury Vinyl Tiles) such as Karndean and Amtico. With its low operating temperature, warmth is evenly spread across the whole room, heating from the floor upwards without cold spots or a stuffy atmosphere.

**Energy efficiency** — Underfloor heating gives the homeowner control, providing responsive highly efficient heating. With less hot air pooling at the ceiling, rooms lose significantly less heat than they would with traditional heating systems while improving the comfort in occupied space.

**Temperature control in each zone** — Our comprehensive range of thermostats, including the 6iE Smart WiFi Thermostat, and the Element WiFi Thermostat allow the homeowner to choose the temperature levels they require, effortlessly controlling their heating with optimised schedules supported by smart learning features to accommodate their lifestyle.

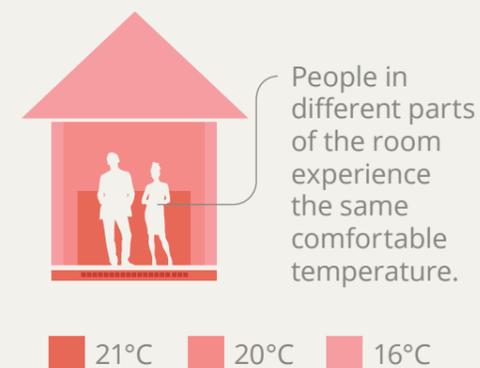
**Design freedom** — Underfloor heating means no bulky radiators to take up valuable wall and floor space.

**Safety** — Delivers a family-friendly and safe environment. No low level hot surfaces or hard metal edges that come with a traditional heating system, that create a potentially unsafe and dangerous environment for small children, the elderly or people at risk.

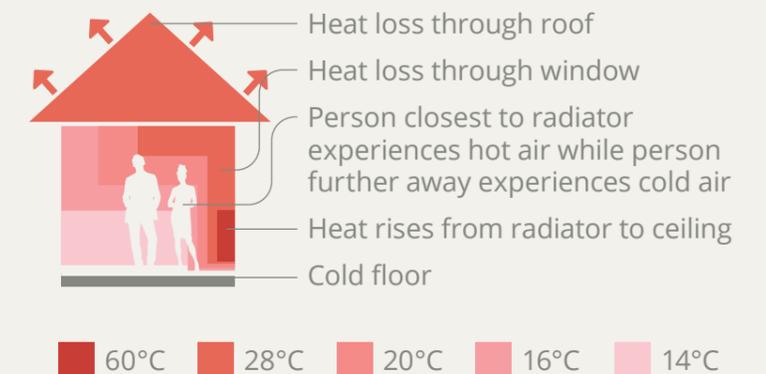
**No maintenance** — There is no maintenance required for electric underfloor heating and little to no maintenance required on our water systems.

**Water underfloor heating can be linked to most heat sources, giving total flexibility** — Allowing for the best energy savings now and in the future, as new and more energy efficient heat sources become available.

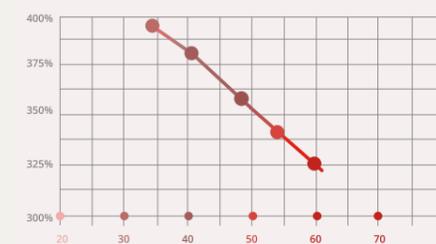
## WARMUP RADIANT FLOOR HEATING



## TYPICAL CENTRAL HEATING

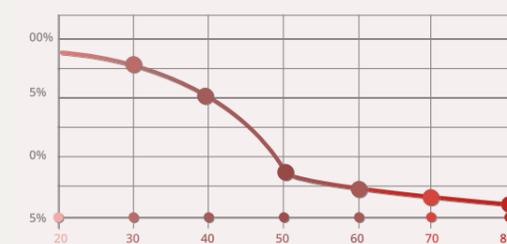


## ASHP EFFICIENCY



Return water temperature (°C)

## BOILER EFFICIENCY



Flow water temperature (°C)

Typical heat source efficiencies by water temperature, Source: BRE - Design of Low Temperature Domestic Heating Systems



# Sustainable technology.

We want to change the way people heat their homes, through sustainable technology that helps lower carbon emissions.

Underfloor heating is a cleaner, smarter way to heat a home. It is estimated that 17.5% of global CO<sub>2</sub> emissions are from energy use in buildings so we must work together to reduce this impact on our environment. Warmup's research led approach to design has resulted in unrivalled heating systems that provide an energy-efficient heating solution for homes around the world, to give a combined reduction of 170,000 t of CO<sub>2</sub> by 2025.

Floor heaters utilise radiant heat technology to warm a room from the ground up, directly heating the people the furniture within it - this process is up to 40% more efficient than traditional heating methods. Utilising Warmup heating solutions throughout your home could help you save over 2000 kg of CO<sub>2</sub> per year, equivalent to swapping to an electric car, and you can significantly reduce the cost of your energy bills.

Warmup has a full range of solutions to lower CO<sub>2</sub> emissions.

For example:

- Replace your central heating controls with Warmup Smart Controls to save 421kgCO<sub>2</sub> per year (17% reduction)
- Upgrade your kitchen and bathroom to Warmup Electric floor heating with smart controls to save 885 kg of CO<sub>2</sub> per year (35% reduction)
- Transform your home with a full Warmup Water floor heating system with a heat pump to save 2067kgCO<sub>2</sub> per year (82% reduction).
- Combine with a renewable energy source such as solar for a zero-carbon home heating system.



# Hydronic underfloor heating.

Hydronic (or wet/water) underfloor heating systems are a popular choice for new-build projects as well as retrofits or extensions. These systems use water for heating, so they can be linked to virtually any heat source, from a standard boiler to newer sustainable technologies, such as solar thermal energy or heat pumps.

Warmup offers you a complete bespoke solution. Warmup water heating systems come specified and supplied with a full set of high-quality components and controls ready for installation. Systems are available in a number of configurations and components to perfectly match your project and budget. Warmup systems come with a choice of three pipe types: PE-RT, PE-Xa and MLCP. This choice guarantees that you have the best possible system, tailored to your specific installation and budget. Warmup's PE-RT Water pipe carries a lifetime warranty for great peace of mind. Our unique SafetyNet™ installation guarantee means that should you accidentally damage the pipe on site, Warmup will exchange it free of charge.

## Hydro case studies

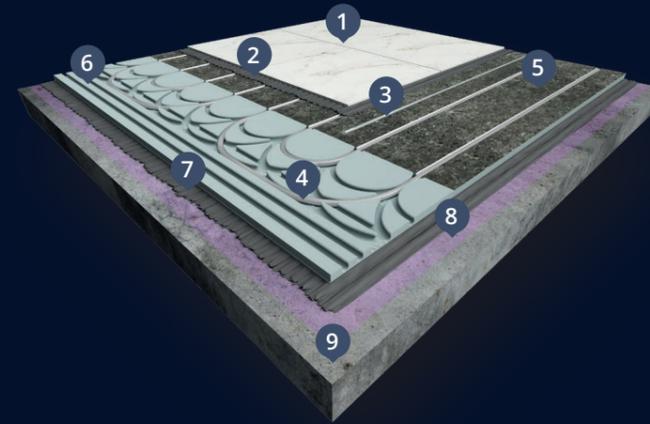
Warmup's Projects team works with architects, M&E consultants, builders, developers and contractors on projects of all scales.



Scan this QR code to see some of our projects.

# VLo Ultra-12™

LOW BUILD SYSTEM



## TYPICAL FLOOR BUILDUP

- 1 **Floor finish**
- 2 **Flexible tile adhesive**  
Tile adhesive used must be compatible with compressible panels such as Ultra-12, e.g. Warmup S2 flexible tile adhesive.
- 3 **Warmup Floor Sensor**  
Must be recessed into the panel and taped in position.
- 4 **Warmup 12 mm PE-RT Pipe**
- 5 **Ultra-12™ - Straight Panel**
- 6 **Ultra-12™ - Curve Panel**
- 7 **Flexible tile adhesive**  
e.g. Warmup S1/S2 flexible tile adhesive for wet or dry areas or compatible high temperature acrylic adhesive for dry areas.
- 8 **Warmup Primer**  
Refer to tile adhesive manufacturers instructions for priming requirements.
- 9 **Subfloor with surface regularity of SR1**

An ideal hydronic underfloor heating solution for both off-plan and retrofitting projects. It has a negligible impact on floor heights and can be tiled on to directly or used under any floating floor surface.

Adding only 18mm to the floor build up, the VLo Ultra-12 low build system by Warmup is an ideal hydronic floor heater for both renovation and new-build projects. It utilises dedicated heating, end, service and plain panels, allowing for installation in rooms of any shape or size.

The VLo Ultra-12 system uses Warmup's new and improved 12 mm PE-RT heating pipe and features a recycled fleece decoupling layer on the bases of the panels that protect tiles from cracks in the subfloor. Once installed, a variety of floor finishes can be laid over Ultra-12, including tiles which can be bonded directly to the system. It offers a dry installation method for floating floors and can work with both traditional boilers and heat pumps.



### Ultra low system

- > Built-in insulation
- > Low-weight boards



### Suitable for any floor finish

- > Efficient heat spread
- > No need for screed

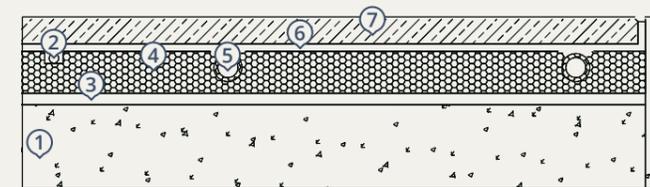


### Market-leading heat output and response times

- > Recycled fleece decaoupling layer
- > Use on concrete or wooden subfloor

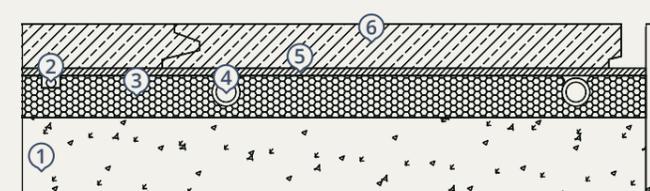
## CAD SECTIONS

### Tiled floor finish



- 1 Insulated subfloor
- 2 Warmup Floor Sensor (conduit recommended)
- 3 5 mm S2 tile adhesive
- 4 Warmup Ultra-12 straight service panel
- 5 Warmup 12 mm pipe
- 6 Tile adhesive
- 7 Tiled floor finish

### Floating floor finish

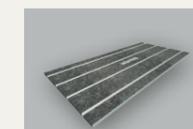


- 1 Insulated subfloor
- 2 Warmup Floor Sensor (conduit recommended)
- 3 Warmup Ultra-12 straight service panel
- 4 Warmup 12 mm pipe
- 5 UFH compatible underlay
- 6 Floating timber floor finish

## TECHNICAL SPECS / FOAM PANELS

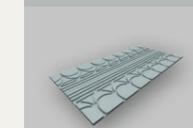
DENSITY 50 kg/m<sup>3</sup>  
 THERMAL CONDUCTIVITY 0.034 W/mK  
 COMPRESSIVE STRENGTH (10% DEFLECTION) 500 kN/m<sup>2</sup>  
 WATER ABSORPTION (2-DAY IMMERSION) < 1.0% by volume  
 WATER ABSORPTION (CAPILLARY) Zero  
 COEFFICIENT OF LINEAR EXPANSION 0.07 mm/mK  
 WATER VAPOUR DIFFUSION RESISTIVITY FACTOR (μ) 500 kN/m<sup>2</sup>  
 FIRE BEHAVIOUR Euroclass E  
 OPD (OZONE DEPLETING POTENTIAL) Zero  
 GWP (GLOBAL WARMING POTENTIAL) < 0.29

## SYSTEM COMPONENTS



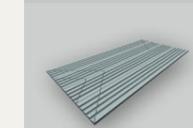
### Straight panel

Used to provide heating.



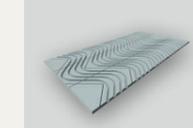
### Curve panel

Used at the end of main panels to turn around the pipework.



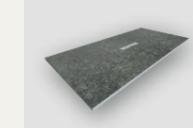
### Straight service panel

Used to feed the pipework back to manifold.



### Curve service panel

Used to feed the pipework around corners and obstacles.

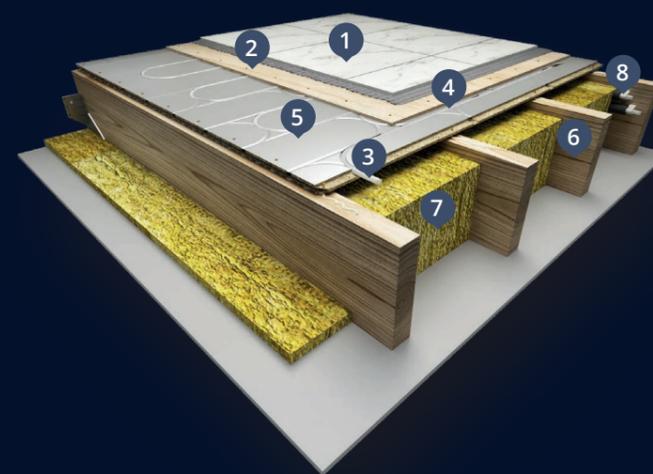


### Plain panel

Used for areas where no UFH is required.



For more examples of floor CAD sections, scan this QR code. Ultra-12 is compatible with solid, beam & block, floating timber, battened, joisted and pre-cast plank subfloors.



#### TYPICAL FLOOR BUILDUP

- 1 **Floor finish**
- 2 **6 mm minimum plywood deck**  
This layer must be glued and screwed to complete the structural deck.
- 3 **Warmup 12 mm PER-RT Pipe**
- 4 **Warmup Floor Sensor**  
Tab tape to the subfloor. Do not tape the sensor tip.
- 5 **Econna panels**  
Panels secured together using a D4 adhesive on BOTH sides of the tongue and groove and fit together. Panels then glued and screwed to the joists.
- 6 **Joists ≤ 600 mm centres**  
Refer to tiling standards for maximum joist centres for floors to receive tiles.
- 7 **Insulation layer**  
Thickness in line with building regulations.
- 8 **Flow and return pipes**

## The VLo Econna-12 joisted floor system is an ideal hydronic floor heater to install with battened or joisted floors in off-plan or renovation projects.

Warmup's newly redesigned VLo Econna-12 hydronic floor heating system is the perfect choice for off-plan and period home renovation projects featuring battened and joisted floors.

Econna-12's low-profile one-piece universal 22 mm panels feature a built-in diffusion layer for even heat distribution alongside fluted heating pipe exits to allow an easy transition into neighbouring panels. Its 12mm heating pipe is built into the structural floor, ensuring no overheating of the final floor finish and with no need for screed, Econna-12 facilitates quick heat-up times and a rapid installation. The VLo Econna-12 system can be used with a traditional boiler or a heat pump and brings sustainable technology and low running costs for the end-user.



#### Built-in diffusion layer for even heat

- > Fast response times
- > Low-build design



#### Use with battened and joisted floors

- > Use with heat pumps
- > Use with traditional systems

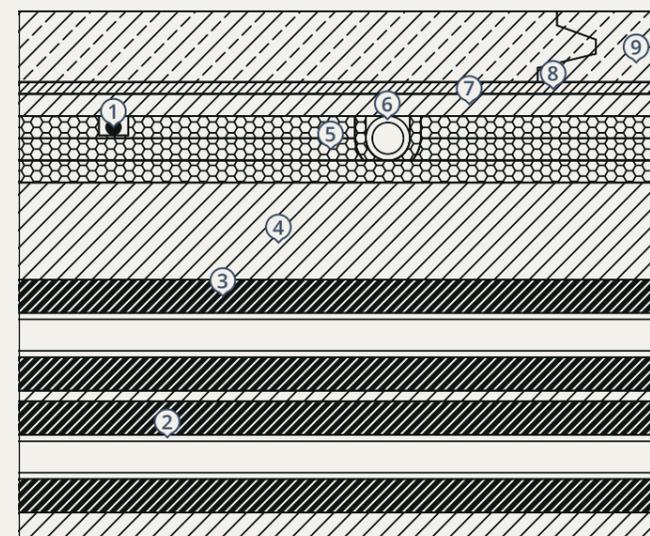


#### One universal panel type: faster and cheaper to install

- > Allows insulation between joists
- > Dry installation: no screeding required

#### CAD SECTIONS

##### Floating floor finish



- 1 Warmup Floor Sensor (conduit recommended)
- 2 Warmup 12 mm pipe
- 3 Pipe insulation
- 4 Timber joists
- 5 Warmup Econna-12 panels
- 6 Warmup 12 mm pipe
- 7 Minimum 6 mm plywood deck
- 8 UFH compatible underlay
- 9 Floating floor finish

#### TECHNICAL SPECIFICATIONS

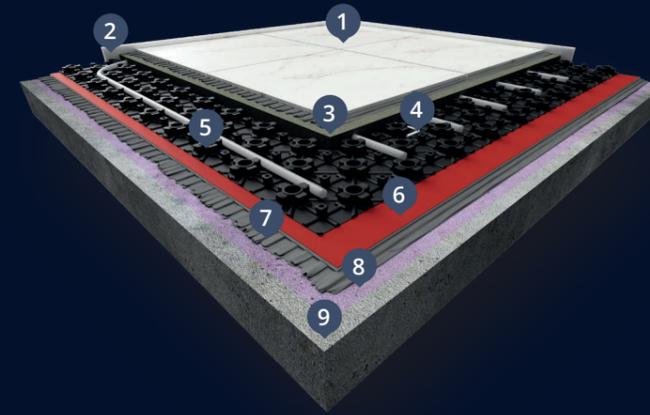
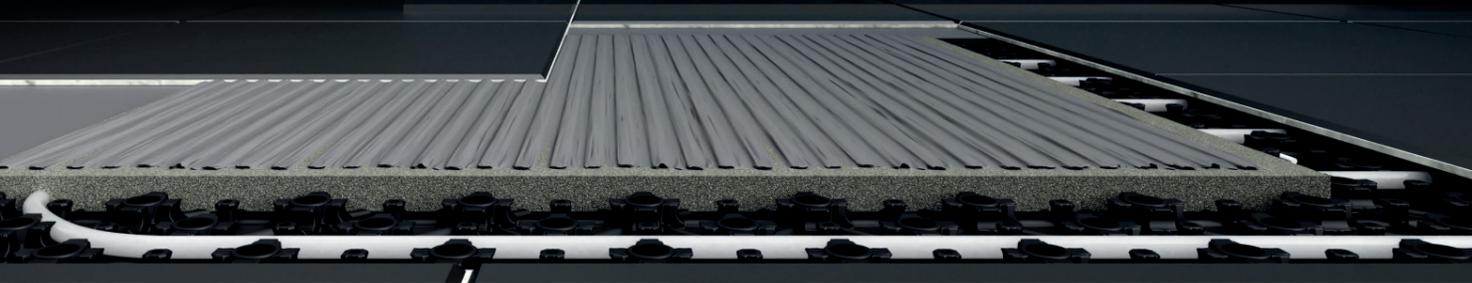
**DIMENSIONS** 2400 × 600 mm  
**THICKNESS** 22 mm  
**COMPOSITION** Routed P5 grade chipboard with aluminium heat diffuser strips  
**INSTALLATION HEIGHT** 22 mm (+6 mm ply layer)  
**PIPE CENTRES** 150 mm  
**WEIGHT WITH WATER AND 6 MM PLY** Approx. 14 kg/m<sup>2</sup>  
**THERMAL CONDUCTIVITY** 0.12 W/mK  
**SOFT BODY IMPACT** Pass - EN 12871  
**CONCENTRATED LOAD** Q<sub>k</sub>, max 1.91 kN BS 6399-1



For more examples of floor CAD sections, scan this QR code. Econna-12 is compatible with battened and joisted subfloors.

# VLo Nexxa-12™

## CASTELLATED SYSTEM



### TYPICAL FLOOR BUILDUP

- 1 Floor finish
- 2 Warmup Perimeter Expansion Strip
- 3 22 mm levelling compound  
The 22 mm layer is measured from the base of the membrane. Levelling compound used must be compatible with plastic underlays such as Nexxa-12. The levelling compound must be applied as a single layer.
- 4 Warmup Floor Sensor  
Tab tape to the subfloor. Do not tape the sensor tip.
- 5 Nexxa-12 membrane
- 6 Warmup Ultralight (recommended)  
Helps improve the system's response time, particularly when installing over screed or concrete.
- 7 Flexible tile adhesive  
Required if installing Ultralight.
- 8 Warmup Primer  
Refer to tile adhesive manufacturers instructions for priming requirements.
- 9 Subfloor with surface regularity of SR1

Warmup's VLo Nexxa-12 castellated system is a low-profile hydronic underfloor heating solution with a modular, castellated membrane offering a hassle-free and consistent installation process.

The low-profile design makes it ideal for both new-build and refurbishment projects where a low floor build-up is required. Allowing a quick and consistent installation, Nexxa-12 is a modular system which bonds directly to a smoothed and primed subfloor. Its innovative castellated membrane facilitates an optimal heating pipe layout and a clear and repeatable installation method for larger projects.

With fast response times and excellent heat output (70 W/m<sup>2</sup> for timber floors at 40°C water temperature), Nexxa-12 utilises Warmup's 12 mm PE-RT pipe and is suitable for use with all floor finishes. It can be used with traditional boilers and heat pumps and will offer an energy-efficient, sustainable heating solution for the end user.



**Low surface finish:  
just 22 mm**

- > Use with all floor finishes
- > Excellent heat output



**Excellent efficiency:  
lower running costs**

- > Use with heat pumps
- > Use with traditional systems

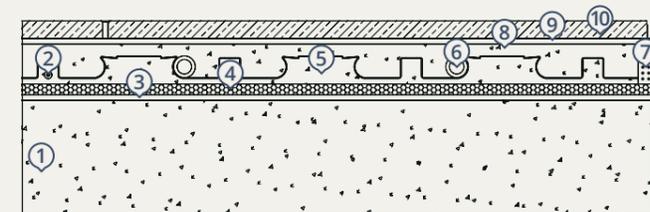


**Fast and consistent  
installation**

- > Self-adhesive backing
- > Castellated design for optimal pipe layout

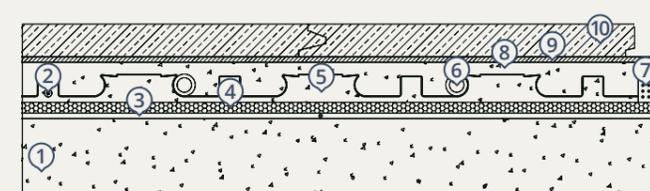
### CAD SECTIONS

#### Tiled floor finish



- |   |                                    |
|---|------------------------------------|
| 1 Insulated subfloor                              | 5 Warmup Nexxa-12 panel            |
| 2 Warmup Floor Sensor (conduit recommended)       | 6 Warmup 12 mm pipe                |
| 3 3 mm tile adhesive for Ultralight (recommended) | 7 Warmup Perimeter Expansion Strip |
| 4 Warmup Ultralight (rec.)                        | 8 Minimum 22 mm levelling compound |
|   | 9 Tile adhesive                    |
|   | 10 Tiled floor finish              |

#### Floating floor finish



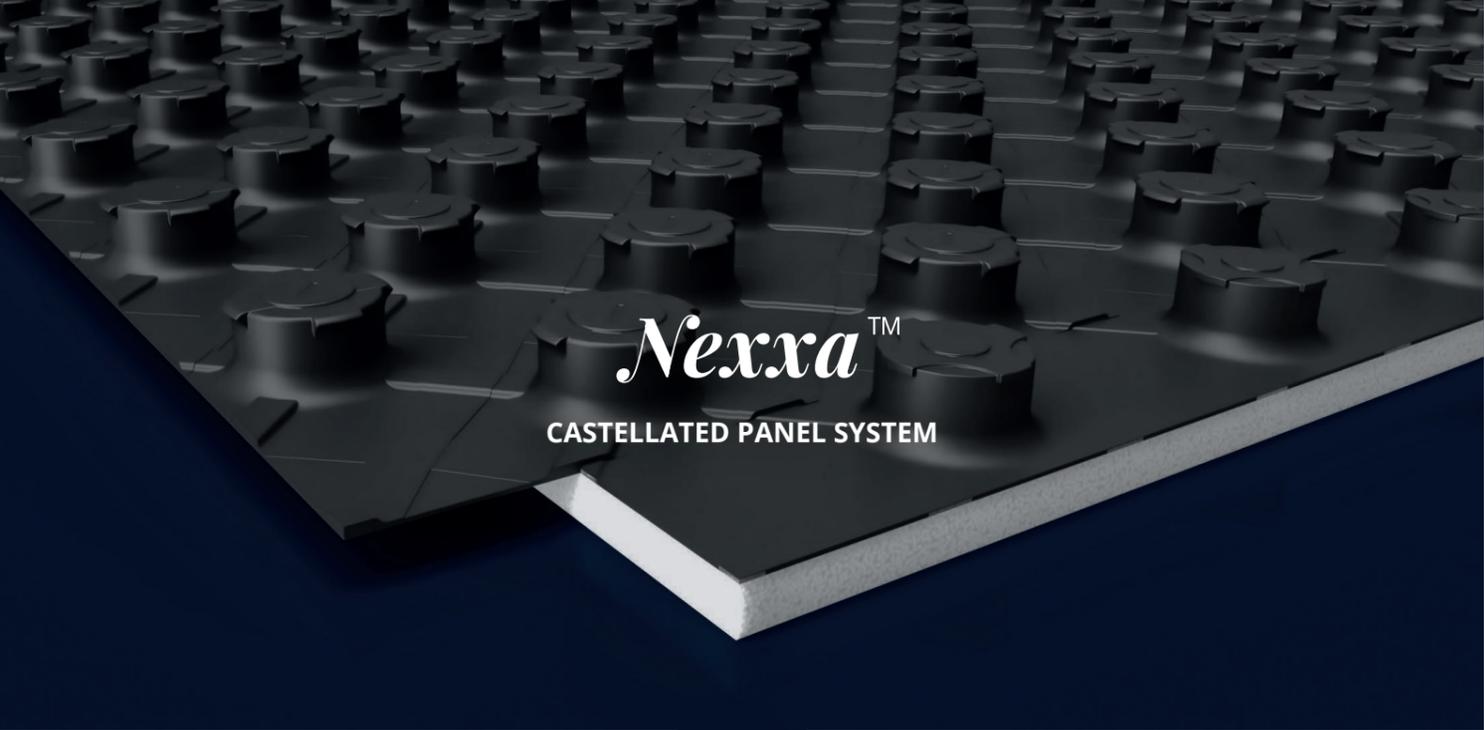
- |   |                                    |
|---|------------------------------------|
| 1 Insulated subfloor                              | 5 Warmup Nexxa-12 panel            |
| 2 Warmup Floor Sensor (conduit recommended)       | 6 Warmup 12 mm pipe                |
| 3 3 mm tile adhesive for Ultralight (recommended) | 7 Warmup Perimeter Expansion Strip |
| 4 Warmup Ultralight (rec.)                        | 8 Minimum 22 mm levelling compound |
|   | 9 UFH compatible underlay          |
|   | 10 Floating floor finish           |

### TECHNICAL SPECIFICATIONS

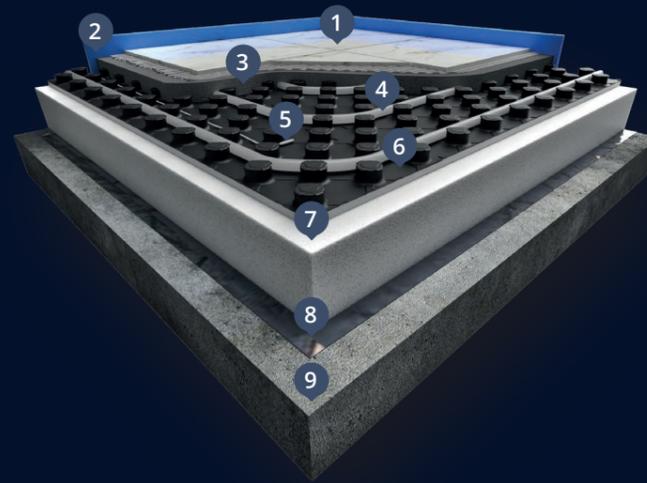
**DIMENSIONS** 16 × 650 × 1050 mm  
**THICKNESS** 22 mm  
**ACTIVE AREA** 0.6 m<sup>2</sup>  
**DOUBLE UP / INTERLOCK ON PALLET** Yes  
**SELF-ADHESIVE** Yes  
**PIPE SPACING INCREMENTS / IMMEDIATE** 50 mm  
**PIPE SPACING INCREMENTS / DIAGONAL** 43 / 70 mm  
**PIPE ORIENTATION** 0° / 90° / 45° / - 45°  
**PIPE BEND RADIUS** 75 mm  
**SINGLE ROW STAGGER** Yes (remove/crush castellation first)  
**SUPPORTED PIPE DIAMETERS** 10 - 12 mm  
**CUTTABLE** Yes



For more examples of floor CAD sections, scan this QR code. Nexxa-12 is compatible with solid, beam & block, floating timber, battened, joisted and pre-cast plank subfloors.



**Nexxa™**  
CASTELLATED PANEL SYSTEM



**TYPICAL FLOOR BUILDUP**

- 1 Floor finish
- 2 Warmup Perimeter Expansion Strip  
To allow for differential movement between finished floor level and walls.
- 3 Screed layer
- 4 Warmup PE-RT Pipe
- 5 Warmup Floor Sensor  
Tab tape to the subfloor. Do not tape the sensor tip.
- 6 Warmup Nexxa panels  
Laid floating over the insulation layer and secured in all corners of the room using clips.
- 7 Insulation layer
- 8 Damp proof membrane (DPM)  
To prevent water ingress.
- 9 Concrete subfloor

## The Warmup Nexxa system enables the most precise installation of underfloor heating within a floating screeded floor.

It uses unique castellation panels to grip the heating pipe preventing both horizontal and vertical movement and allowing any future floor fixings to be made with confidence. The system can be installed in both new-build and renovation projects. Its panels require less screeding than other systems, meaning it can reduce the structural load on the building and result in cost savings in screed materials.

At just 32 mm, Nexxa is ideal for both new-build and renovation projects and it allows reduced screed depths, minimising structural load and material costs. Finally, with an 11 mm EPS backing, the system ensures a rapid response to heating demand.



**Low-build height**

> Use with all floor finishes



**Fast heat-up times**

> Unique castellation panels

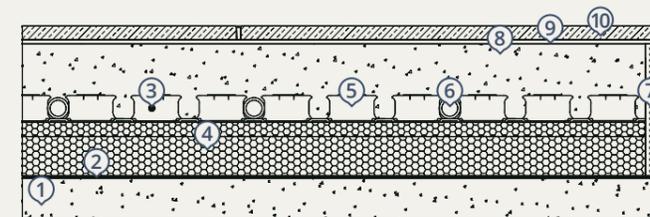


**Perfect for pre-insulated floating floors**

> Use with heat pumps and boilers

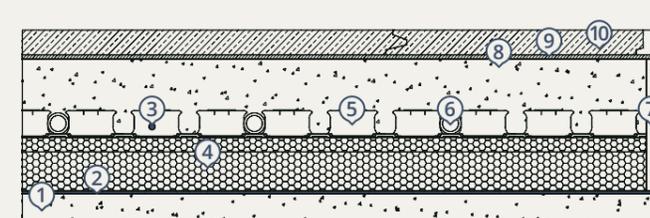
**CAD SECTIONS**

**Tiled floor finish**



- |   |   |
|---|---|
| 1 Subfloor                                  | 6 Warmup 16 mm pipe                                     |
| 2 Damp proof membrane                       | 7 Warmup Perimeter Expansion Strip                      |
| 3 Warmup Floor Sensor (conduit recommended) | 8 65 - 75 mm sand & cement screed or proprietary screed |
| 4 Insulation                                | 9 Tile adhesive   |
| 5 Warmup Nexxa panel                        | 10 Tiled floor finish                                   |

**Floating floor finish**



- |   |   |
|---|---|
| 1 Subfloor                                  | 6 Warmup 16 mm pipe                                     |
| 2 Damp proof membrane                       | 7 Warmup Perimeter Expansion Strip                      |
| 3 Warmup Floor Sensor (conduit recommended) | 8 65 - 75 mm sand & cement screed or proprietary screed |
| 4 Insulation                                | 9 UFH compatible underlay                               |
| 5 Warmup Nexxa panel                        | 10 Floating floor finish                                |

**TECHNICAL SPECIFICATIONS**

**DIMENSIONS INCLUDING OVERLAP** 1450 × 850 mm  
**INSULATION DIMENSIONS** 1450 × 80 × 11 mm  
**USABLE AREA** 1.12 m<sup>2</sup>  
**CASTELLATION HEIGHT** 21 mm  
**OVERALL HEIGHT** 32 mm  
**COMPOSITION** Polystyrene with EPS insulation backing  
**PIPE DIAMETER** 14 - 17 mm  
**CASTELLATION SPACING** 50 mm  
**DIAGONAL SPACING** 71 mm  
**THERMAL CONDUCTIVITY** 0.035 W/mK  
**THERMAL RESISTANCE R<sub>s</sub>** 0.314 m<sup>2</sup>K/W  
**COMPRESSIVE STRESS CS (10)** 200 kPa  
**MAXIMUM TRAFFIC LOAD** 60 kPa  
**REACTION TO FIRE** E  
**COLOUR** Black/anthracite



**CASE STUDY / LONDON**

**79 Gunnersbury Lane**

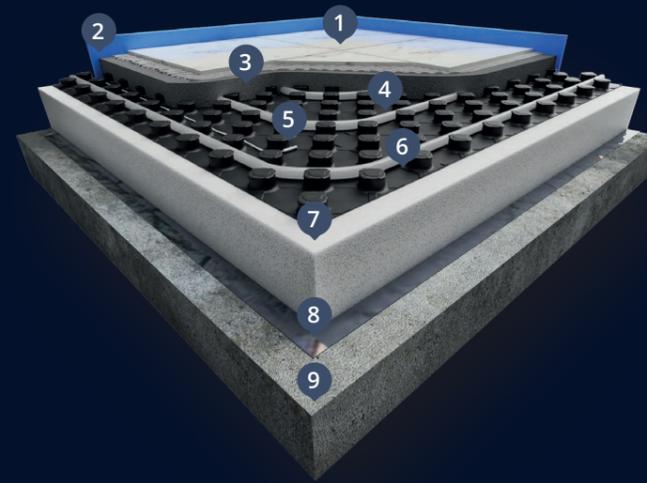
A new-built collection of two- and three-bedroom apartments. The contractors were able to consider a contemporary solution from the design stage and specified Nexxa as the primary heat source throughout the development as it allowed for a lower screed level while retaining efficiency and safety.



For more examples of floor CAD sections, scan this QR code. Nexxa is compatible with solid, beam & block and pre-cast plank subfloors.

# Nexxa™ Peel & Stick

FAST-TO-INSTALL PANEL SYSTEM



## TYPICAL FLOOR BUILDUP

- 1 Floor finish
- 2 Warmup Perimeter Expansion Strip  
To allow for differential movement between finished floor level and walls.
- 3 Screed layer
- 4 Warmup PE-RT Pipe
- 5 Warmup Floor Sensor  
Tab tape to the subfloor. Do not tape the sensor tip.
- 6 Warmup Nexxa peel & Stick panels
- 7 Insulation layer
- 8 Damp proof membrane (DPM)  
To prevent water ingress.
- 9 Concrete subfloor

The Nexxa Peel & Stick system uses self-adhesive backed castellation panels for rapid installation times with floating screeded floors, with no waiting for the adhesive to dry before laying the heating pipe.

With a slimline design of just 21mm, the Nexxa Peel and Stick system is an ideal choice for renovation projects. Its castellated panels hold the heating pipe in place at an optimal layout whilst requiring less screeding than other water floor heating systems, helping to reduce the overall build-up of floor levels.

The self-adhesive backing also provides a more stable base and the ultra-slimline construction won't impact existing floor levels. The Nexxa Peel & Stick innovative design finally allows for more sheets per box, making transportation and installation more efficient.



Rapid installation

> Use with all floor finishes



21 mm build height

> Unique castellation panels

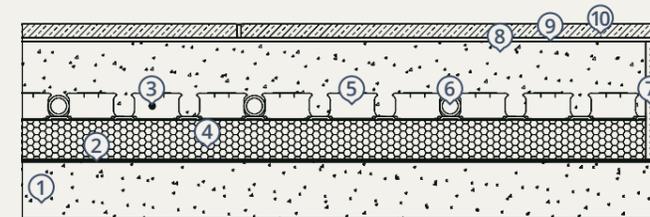


Innovative design

> Use with heat pumps and boilers

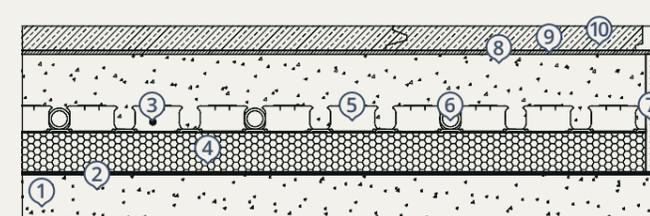
## CAD SECTIONS

### Tiled floor finish



- |   |   |
|---|---|
| 1 Subfloor                                  | 6 Warmup 16 mm pipe                                     |
| 2 Damp proof membrane                       | 7 Warmup Perimeter Expansion Strip                      |
| 3 Warmup Floor Sensor (conduit recommended) | 8 65 - 75 mm sand & cement screed or proprietary screed |
| 4 Insulation                                | 9 Tile adhesive   |
| 5 Warmup Nexxa P&S panel                    | 10 Tiled floor finish                                   |

### Floating floor finish



- |   |   |
|---|---|
| 1 Subfloor                                  | 6 Warmup 16 mm pipe                                     |
| 2 Damp proof membrane                       | 7 Warmup Perimeter Expansion Strip                      |
| 3 Warmup Floor Sensor (conduit recommended) | 8 65 - 75 mm sand & cement screed or proprietary screed |
| 4 Insulation                                | 9 UFH compatible underlay                               |
| 5 Warmup Nexxa panel                        | 10 Floating floor finish                                |

## TECHNICAL SPECIFICATIONS

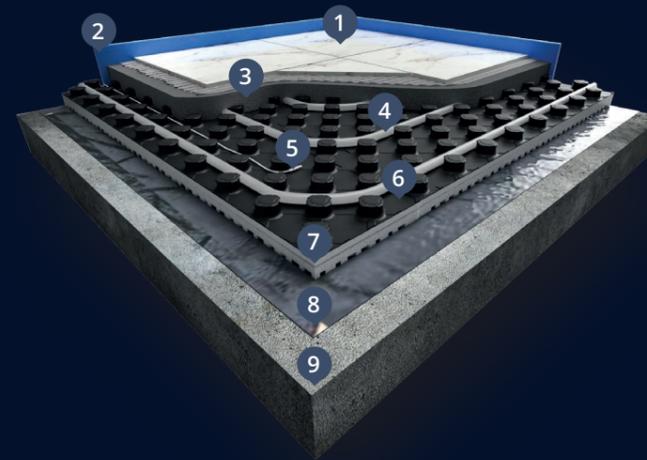
DIMENSIONS INCLUDING OVERLAP 1450 × 850 mm  
 USABLE AREA 1.12 m<sup>2</sup>  
 CASTELLATION HEIGHT 21 mm  
 OVERALL HEIGHT 21 mm  
 COMPOSITION Polystyrene with self-adhesive backing  
 PIPE DIAMETER 14 - 17 mm  
 CASTELLATION SPACING 50 mm  
 DIAGONAL SPACING 71 mm  
 COLOUR Black/anthracite



For more examples of floor CAD sections, scan this QR code. Nexxa is compatible with solid, beam & block and pre-cast plank subfloors.

# Nexxa™ Insulating & Acoustic

INSULATED PANEL SYSTEM



## TYPICAL FLOOR BUILDUP

- 1 Floor finish
- 2 Warmup Perimeter Expansion Strip  
To allow for differential movement between finished floor level and walls.
- 3 Screed layer
- 4 Warmup PE-RT Pipe
- 5 Warmup Floor Sensor  
Tab tape to the subfloor. Do not tape the sensor tip.
- 6 Warmup Insulating & Acoustic panels  
Laid floating over the Damp Proof Membrane.
- 7 Insulation layer
- 8 Damp proof membrane (DPM)  
To prevent water ingress.
- 9 Concrete subfloor

The Nexxa Insulating and Acoustic system features both thermal and acoustic properties, making it a perfect all-in-one water underfloor heating solution for floating screeded floors.

It has been designed for use in large-scale, multi-residential buildings where reducing sound transmission between units is of paramount importance. Its unique castellation panels offer a precise installation and its thermal insulation performance meets the requirements of separating floors defined within EN 1264 and ISO 11855.

With a build height of just 51 mm, the system features 30 mm of thermal and acoustic insulation. Nexxa also helps to reduce sound transmission between units, offering 28 dB ( $\Delta L_{W,R}$ ) reduction to impact sound.



**In-built insulation**

> Use with all floor finishes



**Secured heating pipe**

> Unique castellation panels

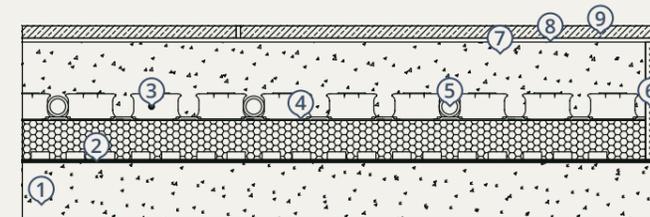


**Ideal for use in multi-residential buildings**

> Use with heat pumps and boilers

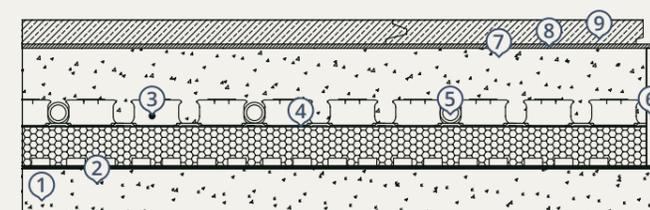
## CAD SECTIONS

### Tiled floor finish



- |   |   |
|---|---|
| 1 Subfloor                                  | 5 Warmup 16 mm pipe                                     |
| 2 Damp proof membrane                       | 6 Warmup Perimeter Expansion Strip                      |
| 3 Warmup Floor Sensor (conduit recommended) | 7 65 - 75 mm sand & cement screed or proprietary screed |
| 4 Warmup Nexxa Insulating & Acoustic panel  | 8 Tile adhesive   |
|   | 9 Tiled floor finish                                    |

### Floating floor finish



- |   |   |
|---|---|
| 1 Subfloor                                  | 5 Warmup 16 mm pipe                                     |
| 2 Damp proof membrane                       | 6 Warmup Perimeter Expansion Strip                      |
| 3 Warmup Floor Sensor (conduit recommended) | 7 65 - 75 mm sand & cement screed or proprietary screed |
| 4 Warmup Nexxa Insulating & Acoustic panel  | 8 UFH compatible underlay                               |
|   | 9 Floating floor finish                                 |

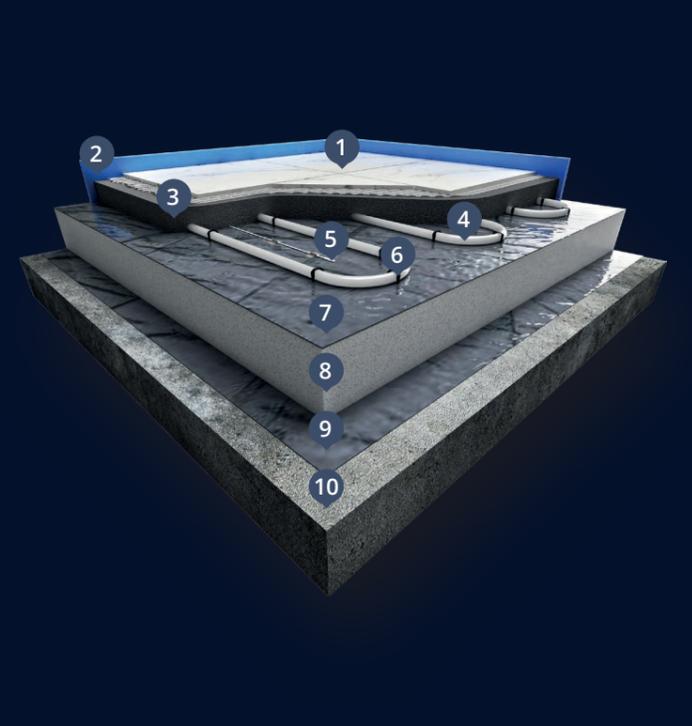
## TECHNICAL SPECIFICATIONS

**DIMENSIONS INCLUDING OVERLAP** 1450 × 850 mm  
**INSULATION DIMENSIONS** 1450 × 80 × 30 mm  
**USABLE AREA** 1.12 m<sup>2</sup>  
**CASTELLATION HEIGHT** 21 mm  
**OVERALL HEIGHT** 51 mm  
**COMPOSITION** Polystyrene with EPS insulation backing  
**PIPE DIAMETER** 14 - 17 mm  
**CASTELLATION SPACING** 50 mm  
**DIAGONAL SPACING** 71 mm  
**THERMAL CONDUCTIVITY** 0.04 W/mK  
**THERMAL RESISTANCE R<sub>0</sub>** 0.75 m<sup>2</sup>K/W  
**IMPACT SOUND REDUCTION  $\Delta L_{W,R}$**  28 dB\*  
**MAXIMUM TRAFFIC LOAD** 5 kPa  
**REACTION TO FIRE** E  
**COLOUR** Black/anthracite



For more examples of floor CAD sections, scan this QR code. Nexxa is compatible with solid, beam & block and pre-cast plank subfloors.

\* According to DIN 4109 based on this products dynamic stiffness according to DIN 18164-2 combined with a floating screed according to DIN 18560-2 with a specific mass  $\geq 70$  kg/m<sup>2</sup>.



#### TYPICAL FLOOR BUILDUP

- 1 Floor finish
- 2 Warmup Perimeter Strip  
To allow for differential movement between finished floor level and walls.
- 3 Screed layer
- 4 Warmup PE-RT Pipe
- 5 Warmup Floor Sensor  
Tab tape to the subfloor. Do not tape the sensor tip.
- 6 Warmup Clips
- 7 Vapour control layer (VCL)  
To prevent the insulation absorbing moisture from the screed.
- 8 Insulation layer
- 9 Damp proof membrane (DPM)  
To prevent water ingress.
- 10 Concrete subfloor

The Warmup Clypso system is a wet floor heating system designed for use within floating screeded floors in larger projects. Typically, it does not affect the depth of a floor's construction.

The Clypso system is perfect for use with floating screeded floors in new-build projects or large-scale renovations. It can be installed with almost any floor finish, in particular where the flooring may be replaced from time to time.

The system uses Warmup's PE-RT heating pipe which are secured to its accompanying insulation panels using innovative plastic clips. The insulation panels feature a woven laminate coating, lined in 50 mm grids for a clear and easy installation. The compressive strength of the panels is 160 Kpa, which safely allows the floor build-up to take imposed loads without damaging the integrity of the floor.



Designed for floating screeded floors

> Use with all floor finishes



Unique isolation panels available in a range of thicknesses

> Use with heat pumps and boilers

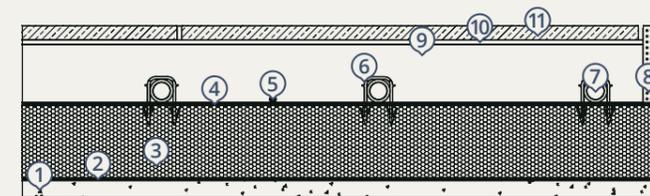


Clear and simple installation

> Low running costs

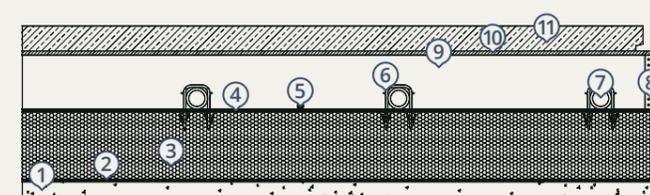
#### CAD SECTIONS

##### Tiled floor finish



- |   |                                    |
|---|------------------------------------|
| 1 Insulated subfloor                        | 6 Warmup Clips                     |
| 2 Damp proof membrane                       | 7 Warmup 16 mm pipe                |
| 3 Insulation                                | 8 Warmup Perimeter Expansion Strip |
| 4 Vapour control layer                      | 9 Screed layer                     |
| 5 Warmup Floor Sensor (conduit recommended) | 10 Tile adhesive                   |
|   | 11 Tiled floor finish              |

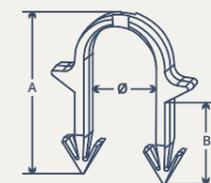
##### Floating floor finish



- |   |                                    |
|---|------------------------------------|
| 1 Insulated subfloor                        | 6 Warmup Clips                     |
| 2 Damp proof membrane                       | 7 Warmup 16 mm pipe                |
| 3 Insulation                                | 8 Warmup Perimeter Expansion Strip |
| 4 Vapour control layer                      | 9 Screed layer                     |
| 5 Warmup Floor Sensor (conduit recommended) | 10 UFH compatible underlay         |
|   | 11 Floating floor finish           |

#### TECHNICAL SPECIFICATIONS

##### Warmup Clips



CODE	COMPOSITION	A (MM)	B (MM)	MAX. Ø (MM)
WHS-CL-T40	Polypropylene	40	20	20
WHS-CL-T60	Polypropylene	57	37	20



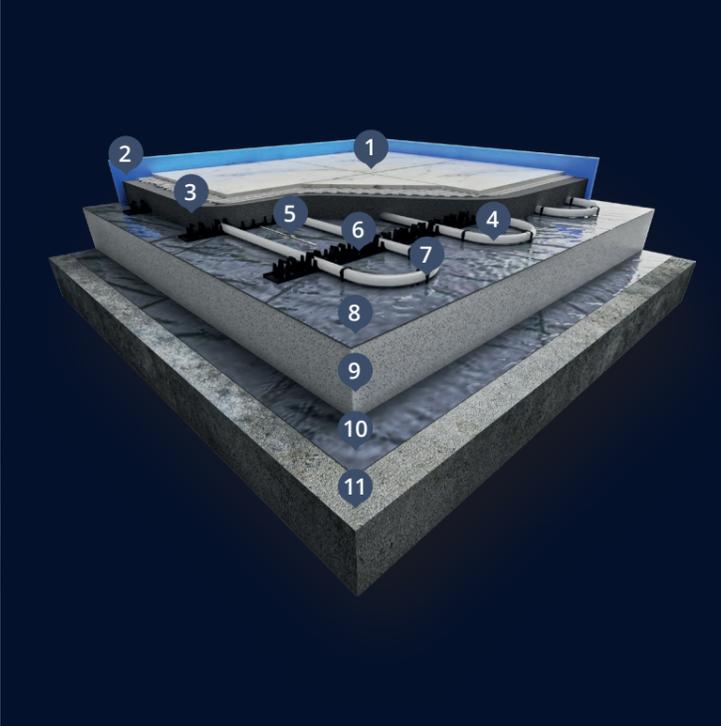
#### CASE STUDY / BLACKPOOL

##### New Harbour Hospital

This project had a vast amount of specified vinyl flooring and there was a concern whether the UFH system may cause the floors to overheat. Clypso was chosen and, working with the design consultants, Warmup developed an innovative way to insulate the distribution pipework within the screed.



For more examples of floor CAD sections, scan this QR code. Clypso is compatible with solid, beam & block and pre-cast plank subfloors.



### TYPICAL FLOOR BUILDUP

- 1 Floor finish
- 2 Warmup Perimeter Strip  
To allow for differential movement between finished floor level and walls.
- 3 Screed layer
- 4 Warmup PE-RT Pipe
- 5 Warmup Floor Sensor  
Tab tape to the subfloor. Do not tape the sensor tip.
- 6 Warmup Metro Rail
- 7 Warmup Clips
- 8 Vapour control layer (VCL)  
To prevent the insulation absorbing moisture from the screed.
- 9 Insulation layer
- 10 Damp proof membrane (DPM)  
To prevent water ingress.
- 11 Concrete subfloor

The Metro rail system is perfect for use with either floating or bonded screeded floors in new-build projects. It utilises a track fixed on to the accompanying insulation to securely hold the heating pipes in place.

The Metro rail system is ideal for use with floating or bonded screed floors in new-build projects. It offers a quick and efficient installation, utilising an innovative track that fixes to the insulation to securely hold the heating pipes in place. This results in the pipe being fixed at the perfect level before screeding whilst ensuring the circuits are positioned in an optimal layout.

It is suitable for use with any Warmup heating pipe and is recommended to be installed with the Metro Insulation board.



**Facilitates rapid installation times**

> Use with all floor finishes



**Holds the heating pipe at the ideal level before screeding**

> Use with heat pumps and boilers

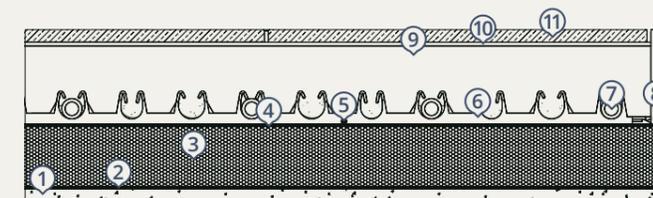


**Perfect for floating or bonded screeded floors**

> Ideal UFH for new-build projects

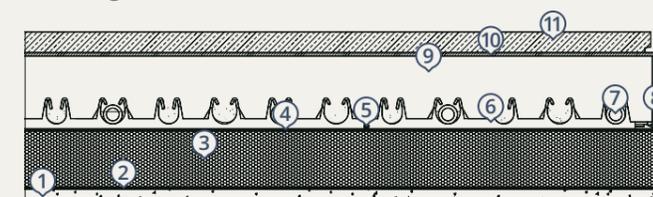
### CAD SECTIONS

#### Tiled floor finish



- |   |                                    |
|---|------------------------------------|
| 1 Insulated subfloor                        | 6 Warmup Metro Rail                |
| 2 Damp proof membrane                       | 7 Warmup 16 mm pipe                |
| 3 Insulation                                | 8 Warmup Perimeter Expansion Strip |
| 4 Vapour control layer                      | 9 Screed layer                     |
| 5 Warmup Floor Sensor (conduit recommended) | 10 Tile adhesive                   |
|   | 11 Tiled floor finish              |

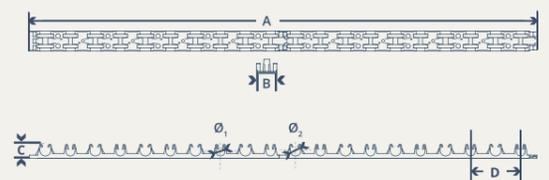
#### Floating floor finish



- |   |                                    |
|---|------------------------------------|
| 1 Insulated subfloor                        | 6 Warmup Metro Rail                |
| 2 Damp proof membrane                       | 7 Warmup 16 mm pipe                |
| 3 Insulation                                | 8 Warmup Perimeter Expansion Strip |
| 4 Vapour control layer                      | 9 Screed layer                     |
| 5 Warmup Floor Sensor (conduit recommended) | 10 UFH compatible underlay         |
|   | 11 Floating floor finish           |

### TECHNICAL SPECIFICATIONS

#### Metro Rail



- COMPOSITION** Polypropylene rails, self-adhesive backing
- A / LENGTH** 516 mm
- B / WIDTH** 40 mm
- C / HEIGHT** 27.5 mm
- D / PIPE CENTRES** 100 mm
- MAX  $\theta_1$  :  $\theta_2$**  16 - 18 : 20 - 22



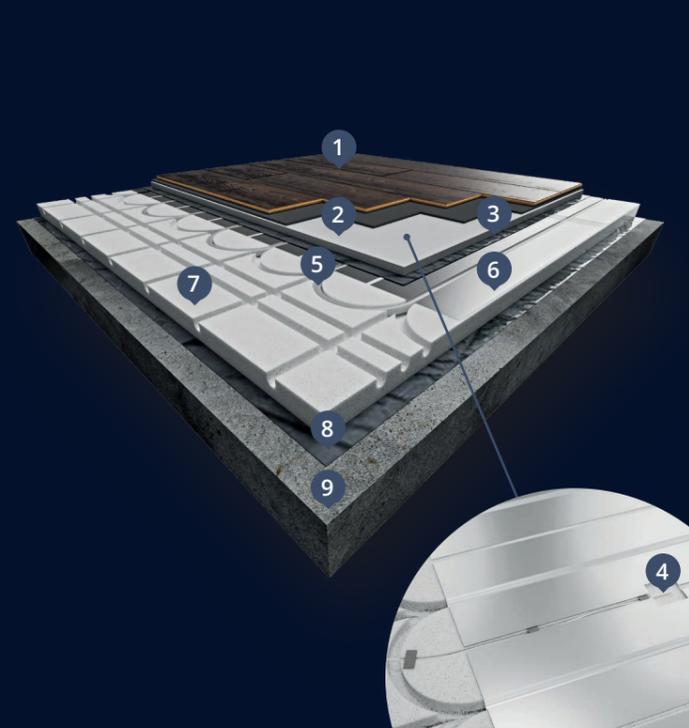
### CASE STUDY / BIRMINGHAM

#### Shree Laxmi Temple

The building required a heating solution that was efficient and safe in particular where the flooring may be occasionally replaced in a high-traffic community centre. Metro was specified because of the speed and precision achieved when fitting the Warmup pipe through the large rooms.



For more examples of floor CAD sections, scan this QR code. Metro is compatible with solid, beam & block and pre-cast plank subfloors.



### TYPICAL FLOOR BUILDUP

- 1 Floor finish
- 2 HiDeck Overlay 18  
Or other structural floating floor deck.
- 3 Vapour control layer (VCL)  
To prevent water ingress.
- 4 Floor sensor
- 5 Warmup 16 mm PE-RT Pipe
- 6 Warmup aluminium diffuser plates
- 7 Warmup Contura panel
- 8 Damp proof membrane (DPM)  
To prevent water ingress.
- 9 Subfloor

The Contura floating floor system is recommended for use with floating floors in new-build and renovation projects. It offers a 'dry' installation, with no need for screed.

The Contura system provides a dry-finish hydronic floor heating installation option for wood or concrete subfloors. It can be installed within new-build or renovation projects, when sufficient levels of insulation are present.

There are a comprehensive choice of board strengths and thicknesses available to match the requirements of the project and its aluminium diffusion plates provide rapid heat up times with no hot spots.



Range of thicknesses available

> Low running costs for end user



No screeding required

> Use with all floor types

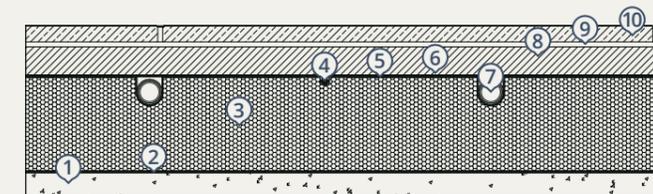


Aluminium diffusion plates for fast, even heat spread

> Use with heat pumps and boilers

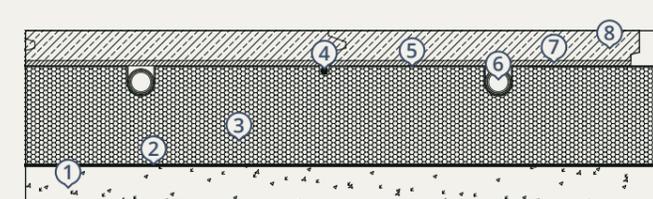
### CAD SECTIONS

#### Tiled floor finish



- |                                      |                        |
|--------------------------------------|------------------------|
| 1 Insulated subfloor                 | 6 Vapour control layer |
| 2 Damp proof membrane                | 7 Warmup 16 mm pipe    |
| 3 Warmup Contura panel               | 8 HiDeck Overlay 18    |
| 4 Warmup Floor Sensor (conduit rec.) | 9 Tile adhesive        |
| 5 Warmup diffusion plate             | 10 Tiled floor finish  |

#### Floating floor finish



- 1 Insulated subfloor
- 2 Damp proof membrane
- 3 Warmup Contura panel
- 4 Warmup Floor Sensor (conduit recommended)
- 5 Warmup diffusion plate
- 6 Warmup 16 mm pipe
- 7 UFH compatible underlay
- 8 Compatible floating floor finish

### TECHNICAL SPECIFICATIONS

**DIMENSIONS** 1200 × 1200 mm  
**THICKNESSES** 30, 40, 50, 60, 70, 80, 90, 100 mm  
**PIPE DIAMETER** 18 mm  
**PIPE CENTRES** 200 mm  
**COMPOSITION** Routed expanded polystyrene (EPS)  
**COMPRESSIVE STRENGTH @ 10% DEFORMATION** CS(10)150  
**REACTION TO FIRE** Euroclass F  
**THERMAL CONDUCTIVITY** 0.034 W/mk  
**BENDING STRENGTH** BS 200



### CASE STUDY / LONDON

#### Putney Plaza

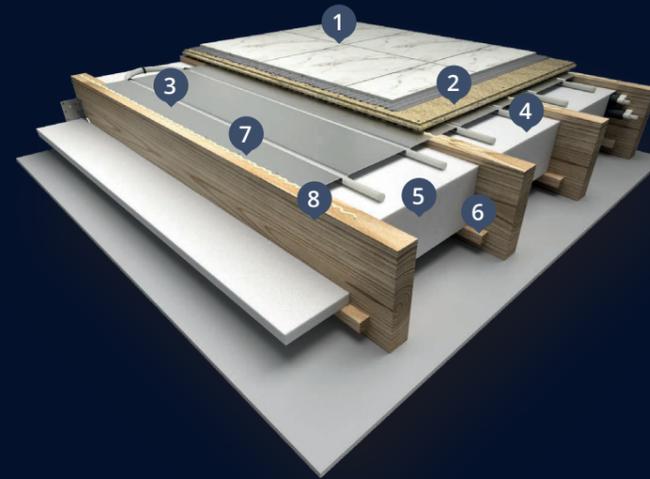
The acoustic solution being employed within the development lent itself to the seamless integration of the Warmup Contura system. It involved no screeds or wet trades, reducing the installation time that needed to be allocated to the floor and shortening the planned schedule.



For more examples of floor CAD sections, scan this QR code. Contura is compatible with solid, beam & block, floating timber, battened, joisted and pre-cast plank subfloors.



**Tectora™**  
JOISTED FLOOR SYSTEM



**TYPICAL FLOOR BUILDUP**

- 1 Floor finish
- 2 Floor deck
- 3 Warmup Floor Sensor  
Must be recessed into the joist. See manual for details.
- 4 Pipe clips
- 5 Warmup 16 mm PE-RT Pipe
- 6 Warmup aluminium diffuser plates
- 7 Insulation layer
- 8 25 × 25 mm battens
- 9 Joists at 400 mm centres
- 10 Flow and return pipes\*

\* Must be insulated within the joist space and supported at 300 mm intervals on horizontal runs and 500 mm on vertical runs using pipe clips

The Tectora joisted floor system is recommended for use with battened or suspended timber floors. It is a dry-fitted hydronic system and features diffusion plates fitted above accompanying insulation.

Warmup's Tectora is a hydronic underfloor heating system designed for either battened or suspended timber floors, including TJI joist constructions. It is a great choice for period home renovation projects.

The system features insulation installed between floor joists with the heating pipes inserted within diffusion plates fitted above for optimal heat distribution. It is a dry-fitted hydronic system, requiring no screeding. It is suitable for almost any floor finish, in particular wood or engineered wood but for installation under tiles as a final floor finish, additional layers of plywood or tile backer board may be required to create a rigid base. Tectora is suitable for use with all Warmup 16 mm heating pipes.



Use with battened and suspended floors

> Insulation fitted between joists



No screeding required

> Use with all floor types

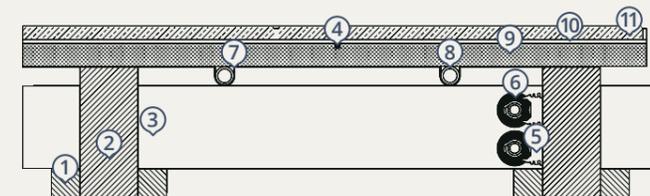


Diffusion plates for optimal heat distribution

> Perfect for period home renovations

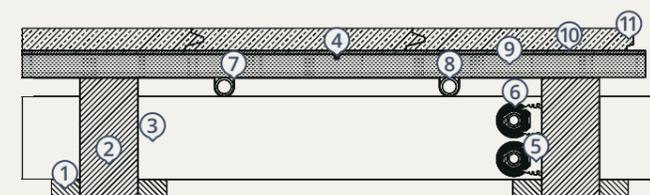
**CAD SECTIONS**

**Tiled floor finish**



- 1 Battens / supports
- 2 Timber joists
- 3 Insulation
- 4 Warmup Floor Sensor (conduit recommended)
- 5 Warmup pipe clips
- 6 Pipe insulation
- 7 Warmup Tectora diffusion plates
- 8 Warmup 16 mm pipe
- 9 Floor deck
- 10 Tile adhesive
- 11 Tiled floor finish

**Floating floor finish**



- 1 Battens / supports
- 2 Timber joists
- 3 Insulation
- 4 Warmup Floor Sensor (conduit recommended)
- 5 Warmup pipe clips
- 6 Pipe insulation
- 7 Warmup Tectora diffusion plates
- 8 Warmup 16 mm pipe
- 9 Floor deck
- 10 UFH compatible underlay
- 11 Floating floor finish

**TECHNICAL SPECIFICATIONS**

**DIMENSIONS** 390 × 1000 mm  
**HEIGHT** 19.5 mm  
**ALUMINIUM THICKNESS** 0.5 mm  
**COMPOSITION** Aluminium  
**PIPE CENTRES** 200 mm  
**PIPE DIAMETER** 16 mm

**CASE STUDY / CROYDON**

**Ruskin Square**

The client wanted to ensure an even, comfortable floor surface temperature and efficient heat output with a timber floor fixed over battens. The Warmup Tectora system was selected and fitted between the timber battens which were installed at 400 mm centres.



For more examples of floor CAD sections, scan this QR code. Tectora is compatible with battened and joisted subfloors.



### TYPICAL FLOOR BUILDUP

- 1 **Floor finish**
- 2 **Warmup Perimeter Expansion Strip**  
To allow for differential movement between finished floor level and walls.
- 3 **Concrete layer**
- 4 **Warmup PE-RT Pipe**
- 5 **Warmup Floor Sensor**  
Tab tape to the subfloor. Do not tape the sensor tip.
- 6 **Warmup Zip Ties**
- 7 **Reinforcement mesh**
- 8 **Reinforcement mesh supports**
- 9 **Vapour control layer (VCL)**  
Prevents the insulation absorbing moisture from the screen.
- 10 **Insulation layer**
- 11 **Damp proof membrane (DPM)**  
To prevent water ingress.
- 12 **Concrete subfloor**

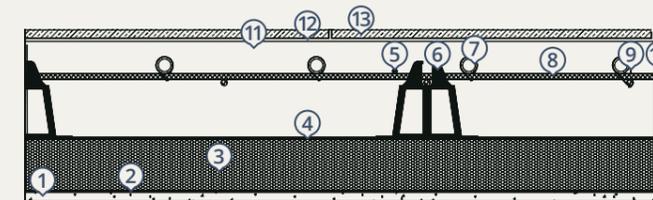
Warmup's Forte grid system is a heavy-duty water underfloor heating solution for load-bearing reinforced concrete floors. It is especially suited for commercial applications.

The Forte grid system is designed for installation into load-bearing structural floors. It incorporates wire grids to which the underfloor heating pipework is attached using cable ties. The system is ideal for new-build construction projects where there is a large floor space to be heated.

The system is either located within a concrete or structural screed and is suitable for almost any floor finish, in particular where the flooring is for a commercial application, such as epoxy paint or resin. It can be used with any of Warmup's heating pipes.

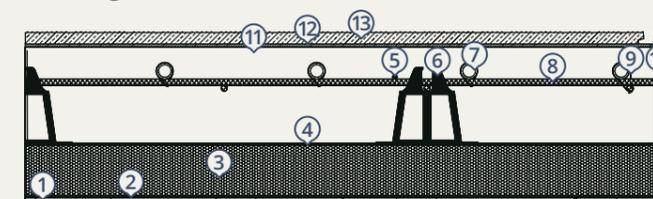
### CAD SECTIONS

#### Tiled floor finish



- |   |                                     |
|---|-------------------------------------|
| 1 Insulated subfloor                        | 7 Warmup 16 mm pipe                 |
| 2 Damp proof membrane                       | 8 Reinforcement Mesh                |
| 3 Insulation                                | 9 Cable ties                        |
| 4 Vapour control layer                      | 10 Warmup Perimeter Expansion Strip |
| 5 Warmup Floor Sensor (conduit recommended) | 11 Screed layer                     |
| 6 Reinforcement Mesh support                | 12 Tile adhesive                    |
|   | 13 Tiled floor finish               |

#### Floating floor finish



- |   |                                     |
|---|-------------------------------------|
| 1 Insulated subfloor                        | 7 Warmup 16 mm pipe                 |
| 2 Damp proof membrane                       | 8 Reinforcement Mesh                |
| 3 Insulation                                | 9 Cable ties                        |
| 4 Vapour control layer                      | 10 Warmup Perimeter Expansion Strip |
| 5 Warmup Floor Sensor (conduit recommended) | 11 Screed layer                     |
| 6 Reinforcement Mesh support                | 12 UFH compatible underlay          |
|   | 13 Floating floor finish            |



**Secure installation in large-scale new-builds**

> Use with all floor finishes



**For reinforced concrete and screed floors**

> Use with heat pumps



**Ideal for commercial applications**

> Use with boiler-based systems



For more examples of floor CAD sections, scan this QR code. Forte is compatible with solid, beam & block and pre-cast plank subfloors.

# Hydronic overlay.

## HiDeck Overlay 18

FOR ULTRA-12, ECONNA-12 AND CONTURA HYDRO SYSTEMS & ELECTRIC FOIL HEATER

A low-profile board with high thermal conductivity that promotes rapid system response times which can help to reduce running costs for the end-user.

HiDeck Overlay 18 is ideal for flooring application incorporating underfloor heating. Constructed using tongue-and-groove high-density gypsum, it helps to protect the floor heating system and provides a stable surface for the final floor finish.

HiDeck boards can be used in place of traditional liquid screed or levelling compounds for a faster install. Its high thermal conductivity provides rapid system reaction times, enhancing the energy-efficiency of floor heating and in turn, helping to reduce running costs. HiDeck is suitable for installation with all subfloor types and directly accepts a wide variety of floor coverings, including tiles, for a smoother install.



**Low thermal resistance:**  
rapid reaction times



**Replaces screed for**  
faster installation



**Low profile:**  
only 18 mm

- > Suitable with all subfloors
- > Tongue and groove design
- > Robust Detail Treatment FFT4 compliant
- > Perfect for various acoustic applications
- > Use with a variety of floor finishes
- > Enhances the UFH efficiency
- > Helps reduce running costs
- > To be used with HiDeck Pro Adhesive

### TECHNICAL SPECIFICATIONS

**BOARD DIMENSIONS** 600 × 1200 mm  
**THICKNESS** 18 mm  
**WEIGHT** 21.6 kg/m<sup>2</sup> / 15.55 kg/board  
**TYPE AND COMPOSITION** Tongue and groove high density gypsum  
**THERMAL RESISTANCE** 0.045 m<sup>2</sup>K/W  
**FIRE CLASS** A1  
**ENVIRONMENTAL CREDENTIALS** GWP <5 / 100% recycled gypsum / Zero OPD



# Hydronic pipes.

Warmup systems come with a choice of 3 types: PE-RT, PE-Xa and MLCP. This choice guarantees that you have the best possible system, tailored to your specific installation and budget.

## PE-RT Pipe

*Also available*

Warmup's PE-RT pipe is extremely flexible with excellent long-term stress resistant properties combined with long-term strength at elevated temperatures.

Our PE-RT (Polyethylene of Raised Temperature Resistance) pipe guarantees leak free performance with a smooth internal structure for improved flow, reduced pressure loss and deposit formation. Warmup PE-RT pipe is ideal for underfloor heating systems as well as being suitable for hot and cold water sanitary and distribution systems and various heating systems for domestic, commercial & industrial applications.

Warmup PE-RT pipe incorporates an EVOH oxygen diffusion barrier layer sandwiched within the wall of the pipe, protecting the EVOH layer from physical damage.

The EVOH layer which complies with DIN 4726 renders the pipe virtually impervious to oxygen and other gases. PE-RT pipes retain flexibility at freezing temperatures and therefore do not break in sub-zero conditions. Pipes are produced and tested according under an ISO 9001 quality management system to four standards, namely DIN 16833, DIN 4726, ISO 22391 and ISO 10508.

### DIMENSIONS

#### 12 mm pipe

SIZE 12 × 1.6 mm  
LENGTH 50, 60, 70 m

#### 16 mm pipe

SIZE 16 × 2 mm  
LENGTH 25, 50 to 120 m (10 m increments)

### PE-XA COIL

The Warmup PE-Xa Pipe is formed as a single extrusion with an adhesive layer and EVOH oxygen barrier on the outer surface.

SIZE 16 × 2 mm  
LENGTH 25, 50 to 120 m (10 m increments)

### MLCP COIL

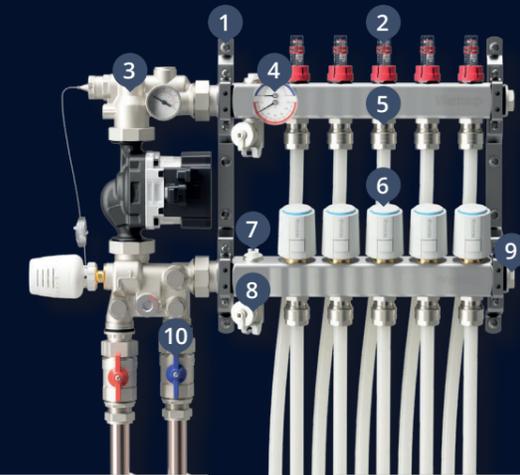
The Warmup MLCP pipe is a 5-layer composite pipe, incorporating layers of PE-RT and adhesives, encasing an aluminium core.

SIZE 16 × 2 mm  
LENGTH 50, 100, 120 m



# Manifold.

The Warmup S3 Manifold provides flexible zoning and water regulation for 2 to 12 water underfloor heating circuits. It is suitable for use with all Warmup water systems in both large-scale, off-plan installations and smaller renovation projects.



The heart of Warmup's water systems. It manages water pressure, flow-rates, temperature regulation and provides precise control for up to 12 heat zones.

Featuring a robust design, the Warmup Manifold is constructed from a single piece of 304-grade, laser-etched Stainless Steel for high corrosion resistance with no welds that might corrode and leak over time. It utilises top of the range components for long-lasting, market-leading performance. The Taconova flow meters improve accuracy and reliability for faster commissioning with lock rings to prevent unskilled persons from tampering with the commissioned settings and memory rings that enable the valves to be closed and re-set quickly and confidently during commissioning or maintenance. The Thermomanometer (combined Pressure and Temperature Gauge) on the flow arm facilitates pressure testing of multiple manifolds simultaneously and allows even easier operational checks. And the Manifold's standard 3/4" Eurocones make it compatible with a wider range of heating pipes and fittings. Warmup's S3 Mixing Unit, Actuator and Isolation Valves are available separately.

## WARMUP S3 SYSTEM

- 1 Mounting brackets**
- 2 Warmup S3 Teconova flow gauges**  
These strong and robust gauges are some of the most reliable flow meters on the market. They reduce pressure losses and increase performance.
- 3 Warmup S3 mixing unit**  
This top of the range 'whisper quiet' mixing unit is set at a constant pressure curve, so circuits are balanced automatically as zones open and close. Having a built-in pump isolating valve means that there is no need to drain the entire system in the event of pump replacement.
- 4 Warmup S3 thermomanometer**  
Pressure testing is made easier as the gauge is mounted directly on the manifold, saving installation time when multiple manifolds are being used.
- 5 Eurocone connectors**
- 6 Warmup S3 actuators 230V**  
Actuators are used in combination with the Warmup S3 Manifolds to control the circuit valves. While operational, the actuator consumes less than 1W of power, making it the most efficient actuator in its class.
- 7 Manual air vent**
- 8 Fill/drain valve**
- 9 End caps**
- 10 Isolation valves**

## TECHNICAL SPECIFICATIONS

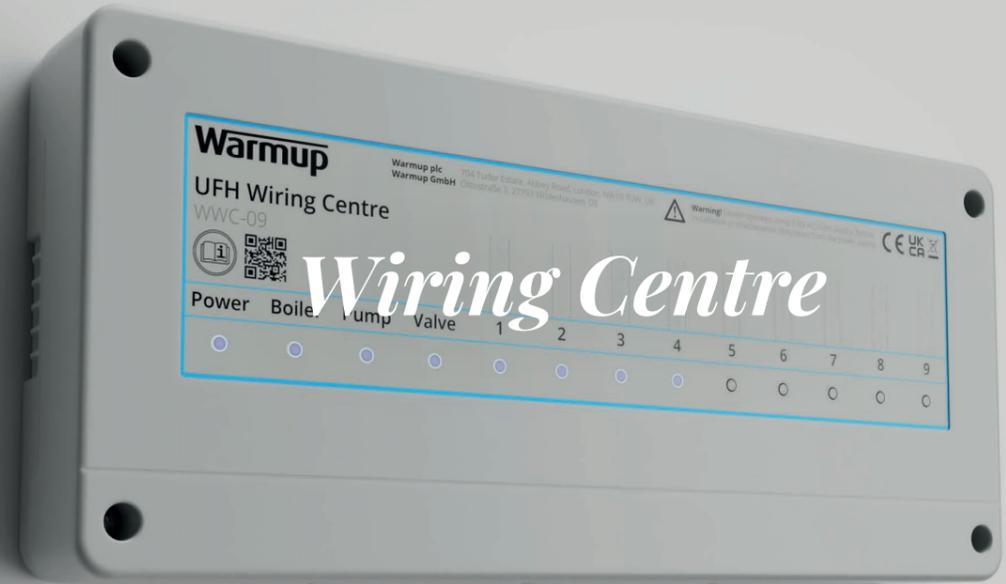
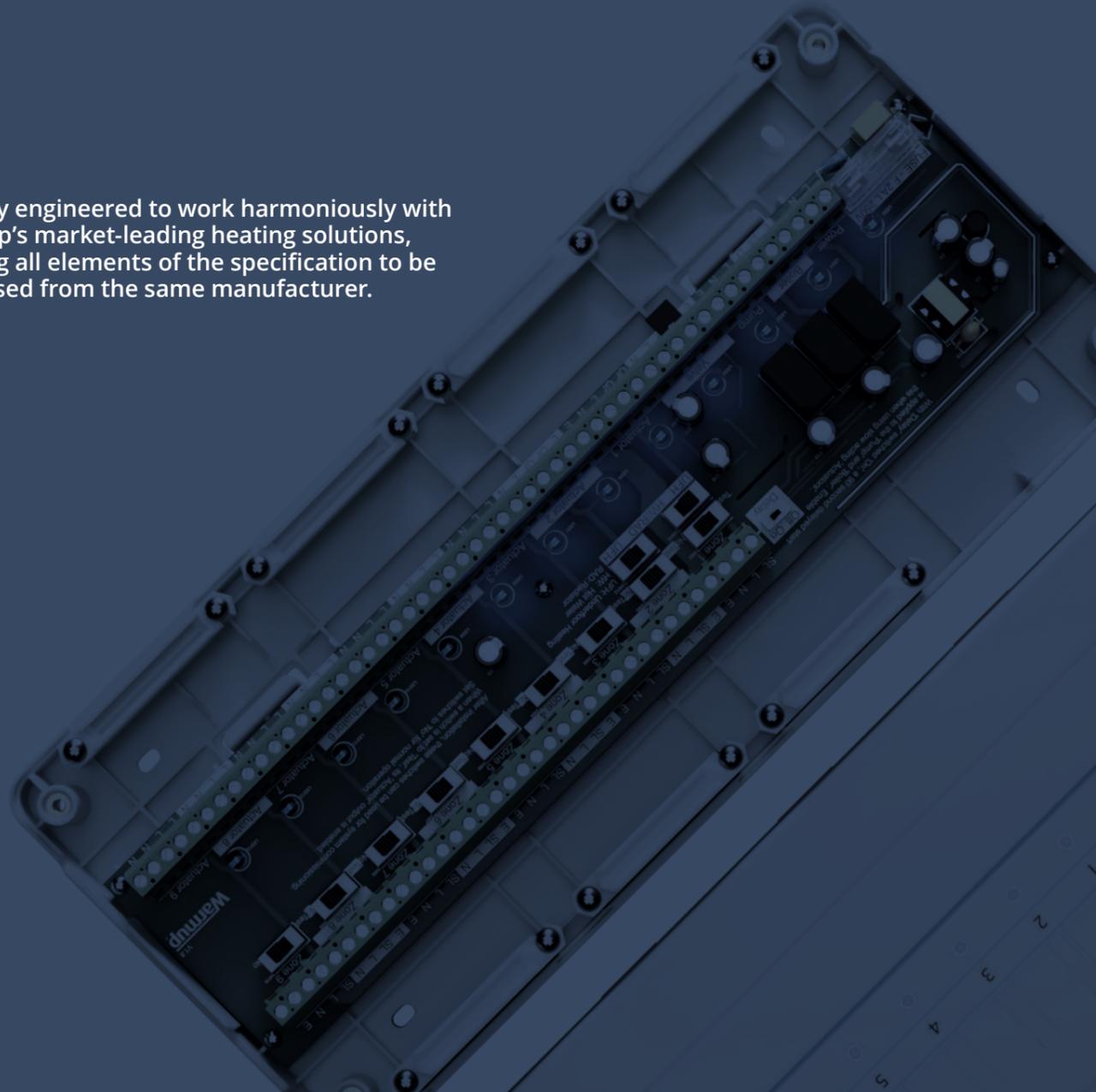
**MATERIAL** 304 grade stainless steel  
**PORTS AVAILABLE** 2 to 12  
**TEMPERATURE RANGE** -5°C to +60°C  
**MAXIMUM OPERATING PRESSURE** 6 Bar  
**MAXIMUM TEST PRESSURE** 10 Bar

**ADJUSTMENT RANGE** 0 – 5 l/min  
**MEASURING ACCURACY** ±10%  
**MANIFOLD ARM DIMENSIONS** 40 × 40 mm  
**PIPE FITTING CENTRES** 50 mm  
**PIPE FITTING DIAMETERS** 3/4" Eurocone



# Wiring Centre.

Expertly engineered to work harmoniously with Warmup's market-leading heating solutions, allowing all elements of the specification to be purchased from the same manufacturer.



Our Wiring Centre features market-leading technology to provide fast installation times and full integration when specifying Warmup's heating systems.

It provides connectivity for up to 9 heating zones, with 2 of the zones being configurable to control radiators and domestic hot water, instead of just 1. This makes it ideal for use in hybrid installations in large-scale projects with mixed heating requirements.

With dedicated terminals for the zone valves and wiring terminals that are supplied already open, it has been designed to make commissioning a heating system much easier and faster. Its individual commissioning switches allow direct zone activation and its indicator lights help to easily identify which zones, pump, boiler and valve outputs are active at any time, enhancing its diagnostics capabilities.



9 independent UFH zones with 2 optional hybrid ones



Delayed start feature prevents short cycling, improving efficiency



Full integration for a Warmup system

## TECHNICAL SPECIFICATIONS

- > Extra space for routing wire lengths
- > Wiring terminals supplied already open
- > Activity indicator lights for every output
- > Compatible with DIN rails
- > Individual commissioning switches
- > Dedicated Earth, Orange & Grey terminals

**DIMENSIONS** 311 x 140 x 50 mm  
**MAXIMUM TOAL LOAD** 2A resistive  
**OVERLOAD PROTECTION** 3A  
**FUSE** F 2A L 250V 5 x 20 mm  
**PROTECTION** Class I  
**IP RATING** IP20  
**OPERATING TEMPERATURE** 0 – 45°C, T45

**WIRE SIZE** 1.0 – 2.5 mm<sup>2</sup>  
**MAXIMUM NUMBER OF ZONES** 9  
**MAXIMUM NUMBER OF HYBRID ZONES** 2 (HW/RADS)  
**STORAGE TEMPERATURE** –10°C to +50°C  
**DIN-RAIL MOUNTING** Yes  
**COMMISSIONING SWITCHES** 9  
**DELAYED START** 90 seconds; switchable



# Electric underfloor heating.

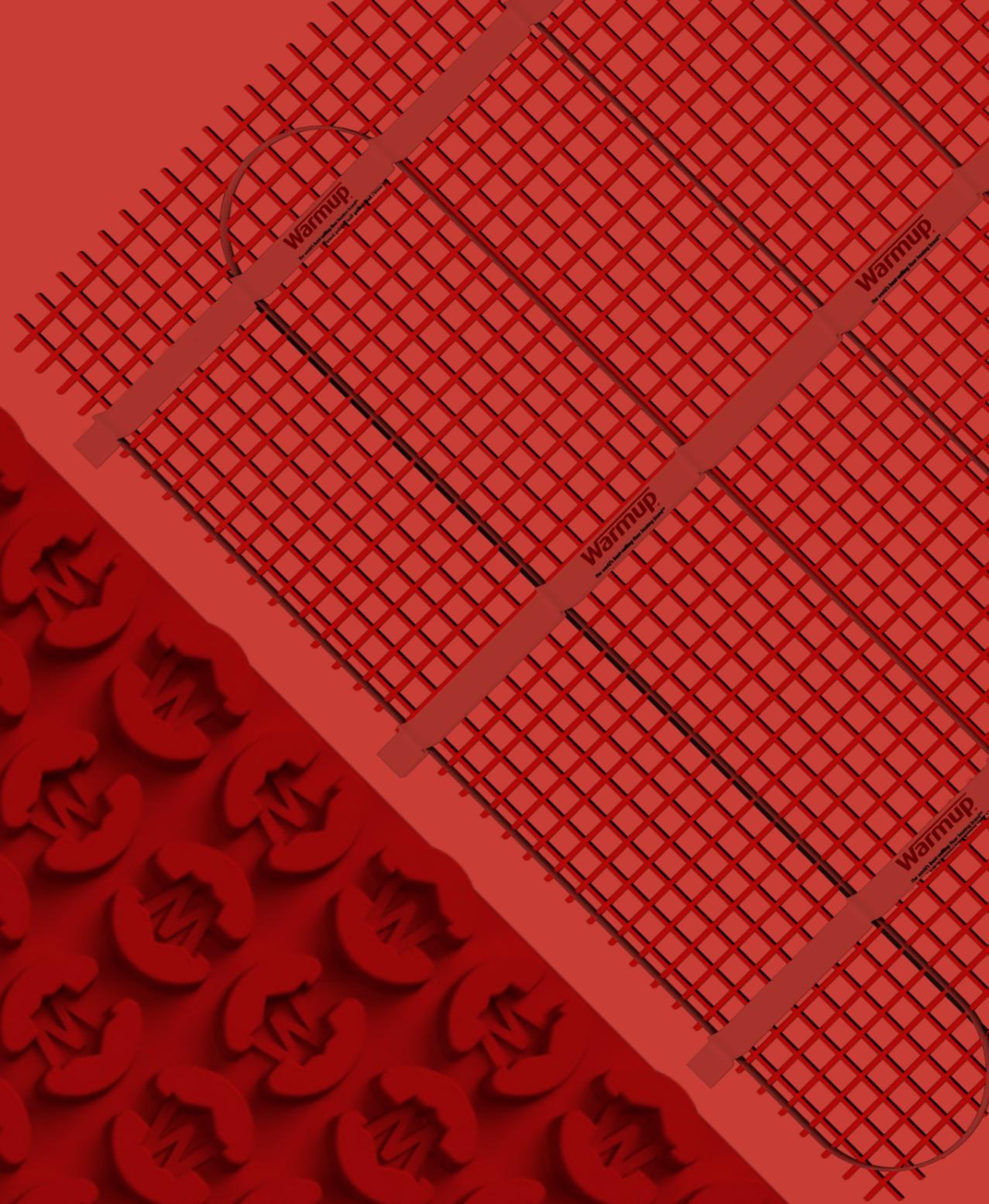
A cleaner, more energy-efficient way to heat a home. Warmup's range of high-quality, cost-saving electric systems utilises ultra-thin heating cables or mats installed beneath your floor finish to gently conduct warmth throughout the space. These systems offer a quick and hassle-free installation and their low-profile design make them ideal for renovation projects.

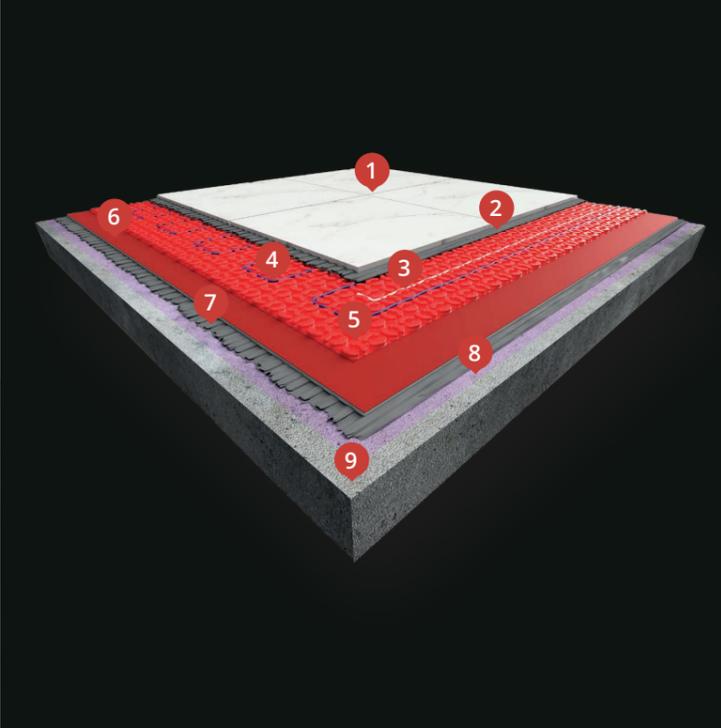
## Electric case studies

Warmup's Projects team works with architects, contractors, M&E consultants, builders and developers on projects of all scales.



Scan this QR code to see some of our projects.





### TYPICAL FLOOR BUILDUP

- 1 Floor finish
- 2 Flexible adhesive
- 3 Warmup Floor Sensor
- 4 Heating cable  
DO NOT cut at any stage.
- 5 DCM-Pro membrane (adhesive backing)  
Apply pressure to the membrane to ensure a secure bond to the subfloor.
- 6 Warmup Ultralight (recommended)  
Adding Warmup Ultralight below DCM Pro can help improve the response time of the system, particularly when installing over screed or concrete.
- 7 Flexible tile adhesive (recommended)  
Required if installing Ultralight.
- 8 Warmup Primer  
Refer to tile adhesive manufacturers instructions for priming requirements.
- 9 Subfloor with surface regularity of SR1

## Warmup DCM-Pro is an electric underfloor heating system that provides anti-fracture protection to tiled floor finishes.

There are two alternative decoupling membranes available: one with a standard non-woven fleece backing and the other with a peel-&-stick adhesive for the fastest installation of electric underfloor heating. The DCM-Pro Peel & Stick membrane uses a viscous adhesive that absorbs strain from seasonal subfloor expansion and contraction, protecting the floor finish from stress that could cause cracks. This option is ideal for rapid installation over Warmup insulation or smooth subfloors. The DCM-Pro Fleece-Back membrane features a traditional decoupling fleece layer, making it suitable for use with levellers or on damp or coarse subfloors. Additionally, the DCM-PRO includes a low wattage cable option with an output of 41.3 – 82.5W/m<sup>2</sup>, ideal for homes with low load supplies and minimal heat loss.



Standard or Low Wattage

- > Fastest installation
- > Flexible heat output



Peel & Stick or Fleece-back

- > Use in wet rooms
- > Use with all floor finishes



Reduces energy by up to 35%

- > Convenient sizing
- > Protects floor from damage

### LOW WATTAGE

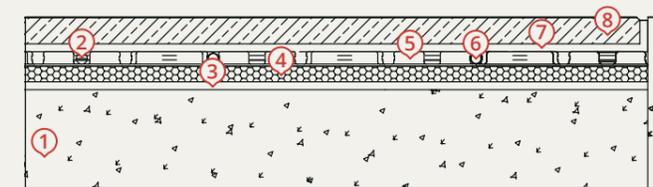


Ideal for solar panels & batteries

- > Low heat loss projects
- > Low load supplies homes

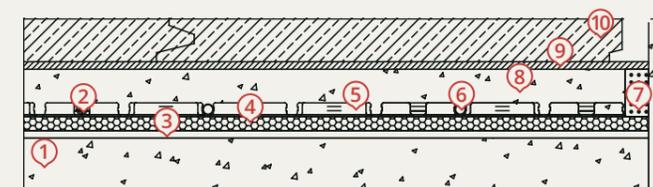
### CAD SECTIONS

#### Tiled floors



- 1 Insulated subfloor
- 2 Warmup Floor Sensor (conduit recommended)
- 3 3 mm tile adhesive for recommended Warmup Ultralight insulation
- 4 Warmup 6 mm Ultralight insulation (recommended)
- 5 Warmup DCM-Pro Peel & Stick membrane
- 6 Warmup DCM-Pro Standard or Low Wattage Cable
- 7 Tile adhesive
- 8 Tiled floor finish

#### Floating finishes



- 1 Insulated subfloor
- 2 Warmup Floor Sensor (conduit recommended)
- 3 3 mm tile adhesive for recommended Warmup Ultralight insulation
- 4 Warmup 6 mm Ultralight insulation (recommended)
- 5 Warmup DCM-Pro Peel & Stick membrane
- 6 Warmup DCM-Pro Standard/Low Wattage Cable
- 7 Warmup Perimeter Extension Strip
- 8 Minimum 10 mm levelling compound
- 9 UFH-compatible underlay
- 10 Floating floor finish

### TECHNICAL SPECIFICATIONS

#### Mat

**DIMENSIONS / SHEETS** 985 × 741 mm / 0.73 m<sup>3</sup>  
**DIMENSIONS / ROLL** 985 mm × 14.3 m / 14 m<sup>3</sup>  
**COMPOSITION** PP mat with Peel & Stick or Fleece backing

#### Cables s - Standard | LW - Low Wattage

**CABLE SHEATH** s - Blue | LW - Green  
**CONNECTION** 3 m coldtail; flat 2 core cable with earth braid  
**OPERATING VOLTAGE** 230 V AC; 50 Hz  
**OUTPUT RATING (90 MM SPACING)** s - 150 W/m<sup>2</sup> | LW - 55 W/m<sup>2</sup>  
**HEATING CORES** Dual core, multi-strand heating element  
**ASTM C627** Light Commercial Use  
**IP RATING** X7  
**INNER/OUTER INSULATION** ETFE / PVC  
**EARTH PROTECTION** Metal braiding surrounding heating cores  
**MINIMUM INSTALL TEMPERATURE** -10°C  
**SPACING** 60 mm / 90 mm / 120 mm



### CASE STUDY / LONDON

#### Fifteen Hanger Lane

DCM-Pro was the ideal heating solution for this new collection of self-contained studio apartments in London. As a low-profile electric floor heater, it wouldn't have significant impact on floor build-up and its unique membrane design requires a lower level of screed.

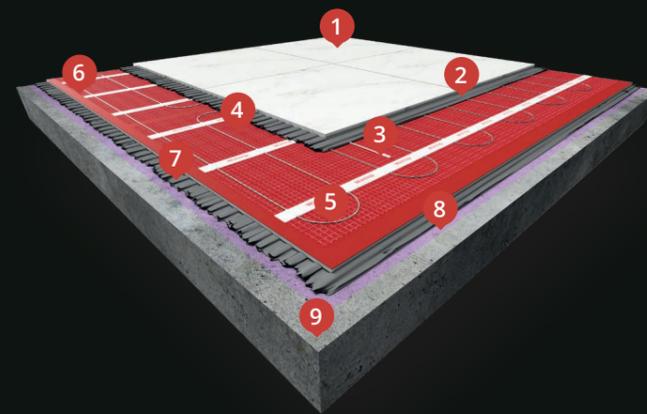


For more examples of floor CAD sections, scan this QR code. DCM-Pro is compatible with solid, beam & block, floating timber, battened, joisted and pre-cast plank subfloors.



# StickyMat™

HEATED MAT SYSTEM



## TYPICAL FLOOR BUILDUP

- 1 Floor finish
- 2 Flexible adhesive
- 3 Warmup Floor Sensor  
Tab tape to the subfloor. Do not tape the sensor tip.
- 4 Fibreglass mesh (with pressure adhesive)  
Apply pressure to the mesh to secure bond to subfloor.
- 5 Heating cable  
DO NOT cut at any stage.
- 6 Warmup Ultralight (recommended)  
Adding Warmup Ultralight below DCM Pro can help improve the response time of the system, particularly when installing over screed or concrete.
- 7 Flexible tile adhesive (recommended)  
Required if installing Ultralight.
- 8 Warmup Primer  
Refer to tile adhesive manufacturers instructions for priming requirements.
- 9 Subfloor with surface regularity of SR1

Just 3 mm thin. StickyMat provides a low-profile floor heating solution for projects of all scales and utilises a pressure sensitive adhesive backing for quick installation times and easy re-positioning.

Warmup's StickyMat system offers a low-profile electric underfloor heating solution that is quick and easy to install. It features a thin heating wire that is evenly spaced and taped to a fibreglass mesh matting with a pressure sensitive adhesive backing so that it can be repositioned easily without losing adhesion. StickyMat is suitable for use with most floor finishes and is available in a choice of 150 W/m<sup>2</sup> and 200 W/m<sup>2</sup> heat outputs.

The StickyMat system is incredibly quick and easy to install in all projects and is ideal for primary heating in bathrooms. It offers unparalleled energy-efficiency and value for money.



**No increase to floor levels**

- > Durable fibreglass mesh
- > Self-adhesive backing



**Fastest to install UFH system**

- > Suitable for all floor finishes
- > Use with all subfloor types

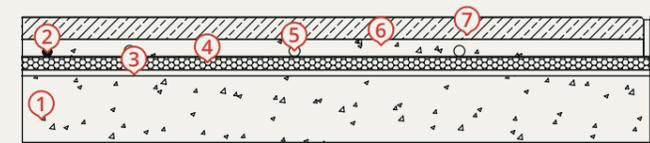


**Two options: 150 or 200 W/m<sup>2</sup>**

- > Can be tiled directly onto
- > Ideal for regular-shaped rooms

## CAD SECTIONS

### Tiled floors



- 1 Insulated subfloor
- 2 Warmup Floor Sensor (conduit recommended)
- 3 3 mm tile adhesive for recommended Warmup Ultralight insulation
- 4 Warmup 6 mm Ultralight insulation (recommended)
- 5 Warmup StickyMat with heating cable
- 6 Tile adhesive
- 7 Tiled floor finish

### Floating finishes



- 1 Insulated subfloor
- 2 Warmup Floor Sensor (conduit recommended)
- 3 3 mm tile adhesive for recommended Warmup Ultralight insulation
- 4 Warmup 6 mm Ultralight insulation (recommended)
- 5 Warmup StickyMat with heating cable
- 6 Warmup Perimeter Extension Strip
- 7 Minimum 10 mm levelling compound
- 8 UFH compatible underlay
- 9 Floating floor finish

## TECHNICAL SPECIFICATIONS

- CONNECTION** 3 m coldtail; flat 2 core cable with earth braid  
**THERMAL CONDUCTIVITY** 0.034 W/mK  
**OPERATING VOLTAGE** 230 V AC; 50 Hz  
**OUTPUT RATING** 150 or 200 W/m<sup>2</sup>  
**HEATING CORES** Dual core, multi-strand heating element  
**IP RATING** X7  
**CABLE SPACING** 80 mm (± 3 mm)  
**INNER/OUTER INSULATION** ETFE  
**EARTH PROTECTION** Metal braiding surrounding heating cores  
**MINIMUM INSTALL TEMPERATURE** -10°C



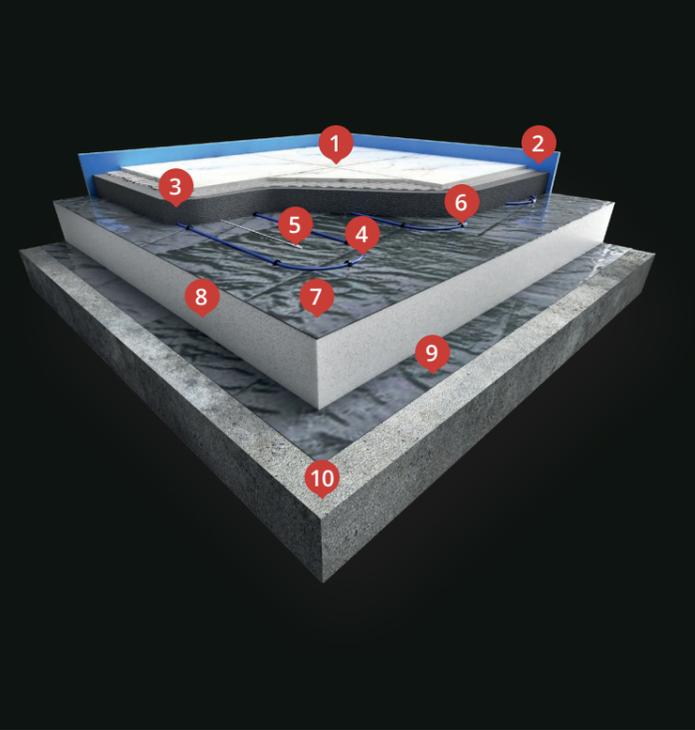
## CASE STUDY / LONDON

### Marathon House

The owner of this penthouse apartment wanted to have a heating system that would integrate seamlessly with the modern décor of the apartment and provide outstanding comfort without taking any wall space or restricting the panoramic views over London.



For more examples of floor CAD sections, scan this QR code. StickyMat is compatible with solid, beam & block, floating timber, battened, joisted and pre-cast plank subfloors.



### TYPICAL FLOOR BUILDUP

- 1 Floor finish
- 2 Warmup Perimeter Expansion Strip  
To allow for differential movement between finished floor level and walls.
- 3 Screed layer
- 4 Warmup Inscreed heating cable  
DO NOT cut at any stage.
- 5 Warmup Floor Sensor  
Tab tape to the subfloor. Do not tape the sensor tip.
- 6 Warmup Clips
- 7 Vapour control layer (VCL)  
Prevents the insulation absorbing moisture from the screed.
- 8 Insulation layer
- 9 Damp proof membrane (DPM)  
Prevents water ingress.
- 10 Concrete subfloor

Warmup's Inscreed system has been developed for use with 50-100 mm concrete screed. It is ideal for bringing energy-efficient warmth to new-build projects.

It is an ideal electric floor heating solution for new-build projects. It has been specifically designed for installation within concrete screeded subfloors and once installed, it can be covered with any flooring. The slower heat-up and cool-down times of this system makes it suitable for rooms in constant use, as the screed can be used as a form of storage heater.

Inscreed uses radiant effect, 100% efficient electric heating and zoned control to reduce energy usage by up to 35% compared to traditional radiator systems. It is designed and manufactured by Warmup, who are aligned with the UN's Race to Zero initiative to reduce global CO<sub>2</sub> emissions.



Use with all floor types



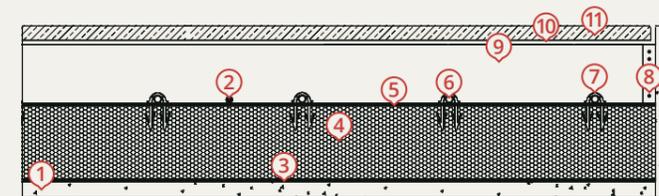
Flexible heat output: cable can be laid at different spacings



For installation in a 50-100 mm concrete screed

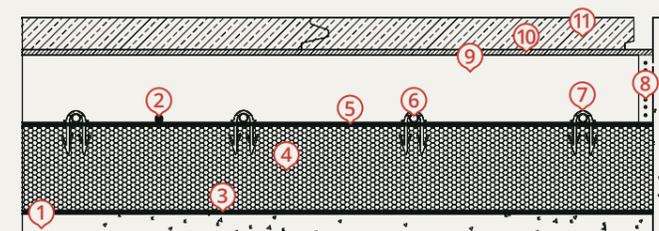
### CAD SECTIONS

#### Tiled floors



- |   |                                    |
|---|------------------------------------|
| 1 Insulated subfloor                        | 6 Warmup Inscreed Cable            |
| 2 Warmup Floor Sensor (conduit recommended) | 7 Warmup Clips                     |
| 3 Damp proof membrane                       | 8 Warmup Perimeter Expansion Strip |
| 4 Insulation                                | 9 Screed layer                     |
| 5 Vapour control layer                      | 10 Tile adhesive                   |
|   | 11 Tiled floor finish              |

#### Floating finishes



- |   |                                    |
|---|------------------------------------|
| 1 Insulated subfloor                        | 6 Warmup Inscreed Cable            |
| 2 Warmup Floor Sensor (conduit recommended) | 7 Warmup Clips                     |
| 3 Damp proof membrane                       | 8 Warmup Perimeter Expansion Strip |
| 4 Insulation                                | 9 Screed layer                     |
| 5 Vapour control layer                      | 10 UFH compatible underlay         |
|   | 11 Floating floor finish           |

### TECHNICAL SPECIFICATIONS

**CONNECTION** 1.5 mm<sup>2</sup>, 2.50 m long coldtail  
**OPERATING VOLTAGE** 230 V AC: 50 Hz  
**OUTPUT RATING** 200 W/m<sup>2</sup> / 150 W/m<sup>2</sup> / 100 W/m<sup>2</sup>  
**HEATING CORES** Dual core, single-strand heating element  
**IP RATING** IPX7  
**CABLE DIAMETER** 5.3 mm  
**INNER/OUTER INSULATION** Fluoropolymer / Polyolefin  
**EARTH PROTECTION** Metal braiding surrounding heating cores  
**MINIMUM INSTALL TEMPERATURE** -10°C  
**SPACING (MM)** 100 (200W/m<sup>2</sup>) / 133 (150W/m<sup>2</sup>) / 200 (100W/m<sup>2</sup>)



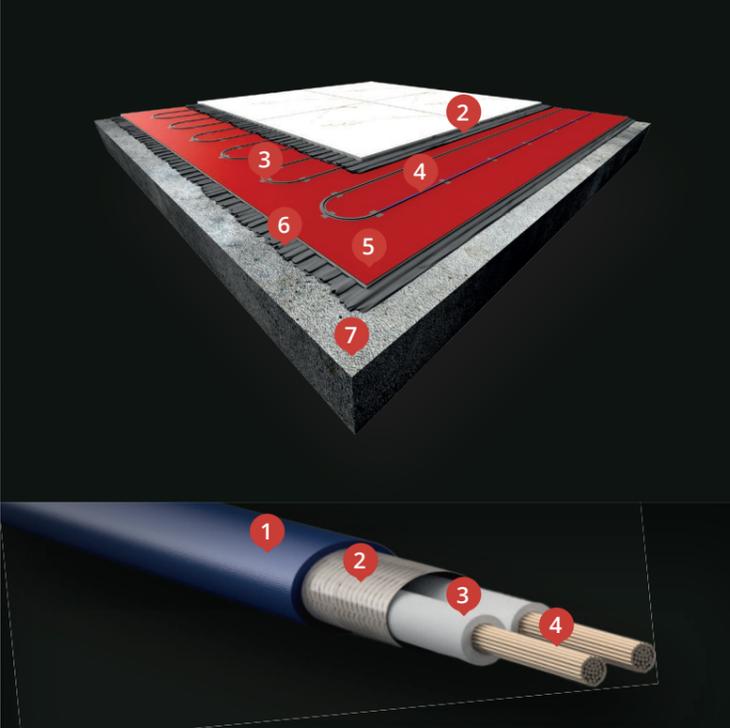
### CASE STUDY / GUERNSEY

#### Coq du Nord / The Roost development

Inscreed cables were installed throughout this new development of 12 exclusive 3 and 4 bedroom family homes. Warmup's UFH was installed under the hallways' beautiful oak, rustic brushed and UV oiled bevelled flooring and it continues into the lounge areas.



For more examples of floor CAD sections, scan this QR code. Inscreed is compatible with solid, beam & block and pre-cast plank subfloors.



### TYPICAL FLOOR BUILDUP

- 1 Floor finish
- 2 Tile adhesive or levelling compound
- 3 Warmup Tape
- 4 Warmup Loose Wire
- 5 Warmup Ultralight
- 6 Flexible tile adhesive
- 7 Subfloor

### CABLE SECTION

- 1 EFTE outer insulation
- 2 Earth braiding surrounding heating cores
- 3 EFTE inner insulation
- 4 Dual core, multi-strand heating element

Warmup's Loose Wire system utilises the thinnest heating wire on the market and is available as a kit with everything you need for a successful underfloor heating installation.

Warmup's Loose Wire system is recommended for use with stone or tiled floor finishes. Its renowned energy-efficient heating wires are the thinnest on the market - at just 1.8mm thin they can be installed directly into the layer of tile adhesive and have no impact on floor heights.

The system is available in range of lengths or as a kit - featuring all you need for a successful installation, including the heating wire, primer, tape and even a roller brush. It is ideal for irregularly shaped rooms and the flexibility of the system means it can be manoeuvred around fixed objects with ease.



No impact on floor heights

> Can tile directly over



World's thinnest heating wire

> Rapid installation times

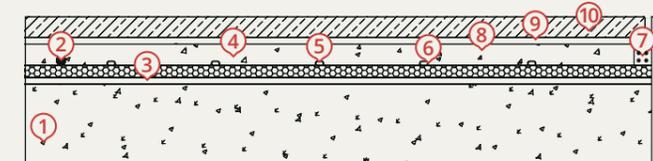


Perfect for rooms with multiple fixed objects

> For all floor types in irregular rooms

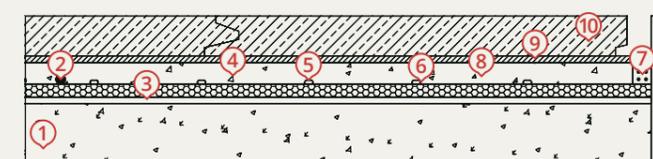
### CAD SECTIONS

#### Tiled floors



- 1 Insulated subfloor
- 2 Warmup Floor Sensor (conduit recommended)
- 3 Flexible tile adhesive
- 4 Warmup Coated Insulation Board
- 5 Warmup Loose Wire cable
- 6 Warmup Tape
- 7 Warmup Perimeter Expansion Strip
- 8 Minimum 10 mm levelling compound
- 9 Tile adhesive
- 10 Tiled floor finish

#### Floating finishes



- 1 Insulated subfloor
- 2 Warmup Floor Sensor (conduit recommended)
- 3 Flexible tile adhesive
- 4 Warmup Coated Insulation Board
- 5 Warmup Loose Wire cable
- 6 Warmup Tape
- 7 Warmup Perimeter Expansion Strip
- 8 Minimum 10 mm levelling compound
- 9 UFH-compatible underlay
- 10 Floating floor finish

### TECHNICAL SPECIFICATIONS

- CABLE THICKNESS 1.8 mm
- OPERATING VOLTAGE 230 V AC: 50 Hz
- OUTPUT RATING 150 or 200 W/m<sup>2</sup>
- CONNECTION 3 m coldtail; flat 2 core cable with earth braid
- INNER/OUTER INSULATION EFTE
- HEATING CORES Dual core, multi-strand heating element
- EARTH PROTECTION Metal braiding surrounding heating cores
- IP RATING IPX7
- MINIMUM INSTALL TEMPERATURE 5°C



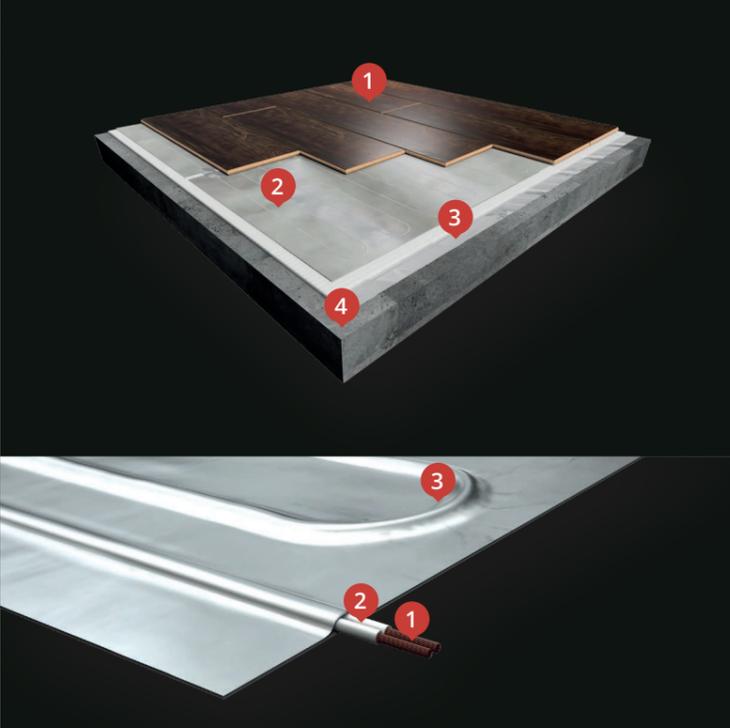
### CASE STUDY / LONDON

#### Connaught Hotel

Warmup's Loose Wire was installed in 95 bathrooms to ensure there would be no cold spots in these very irregularly shaped rooms and around the furniture. It links to a building Management System which activates upon check-in to ensure that the floor was warm upon arrival.



For more examples of floor CAD sections, scan this QR code. Loose Wire is compatible with solid, beam & block, floating timber, battened, joisted and pre-cast plank subfloors.



### TYPICAL FLOOR BUILDUP

- 1 Floor finish  
Compatible floor finishes such as laminate, or carpet, linoleum and vinyl flooring Dual Overlay.
- 2 Warmup Foil Heater
- 3 Warmup Insulated Underlay or Ultralight
- 4 Subfloor

### CABLE SECTION

- 1 Single-strand twin conductors heating element
- 2 Wire insulation: advanced fluoropolymer
- 3 Aluminium Foil Earth

## The Foil Heater is ideal for use in projects using floating floor finishes and requires no screeding or adhesives for installation.

The Warmup Foil Heater is an ideal electric floor heating system for projects with larger floor areas with floating floor finishes such as laminate, vinyl and carpet.

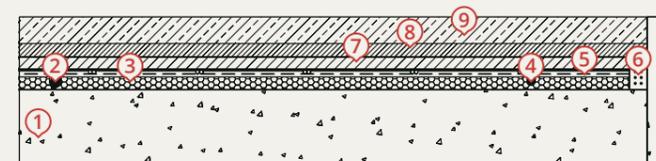
Its heating wires are contained within a reinforced aluminium foil matting that acts as a continuous earth layer, facilitating a consistent and even heat distribution. Our Foil Heater provides a quick, 'dry' installation with no adhesive, screed or levelling compound needed.

To maximise on the energy-efficiency of the system, Warmup's Insulated Underlay is recommended for installation alongside and if using the heater with a softer floor finish, our Dual Overlay system should also be installed for a durable floor deck.

### CAD SECTIONS

(solid, beam & block, floating timber, battened, joisted, pre-cast plank)

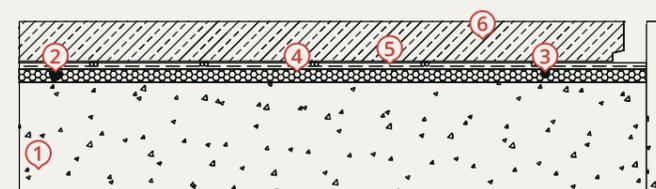
#### Carpeted floors



- 1 Insulated subfloor
- 2 Warmup Floor Sensor
- 3 Warmup 6 mm Insulated Underlay or Ultralight
- 4 Warmup 4 mm coldtail
- 5 Warmup Foil Heater
- 6 Warmup Perimeter Extension Strip
- 7 HiDECK Overlay 18
- 8 Warmup Dual Overlay / UFH compatible underlay
- 9 Carpet floor finish

(solid, beam & block, floating timber, battened, joisted, pre-cast plank)

#### Floating finishes



- 1 Insulated subfloor
- 2 Warmup Floor Sensor
- 3 Warmup 4 mm coldtail
- 4 Warmup 6 mm Insulated Underlay
- 5 Warmup Foil Heater
- 6 Floating floor finish

### TECHNICAL SPECIFICATIONS

- OPERATING VOLTAGE 230 V AC: 50 Hz
- IP RATING IPX7
- WIDTH 500 mm
- MAT THICKNESS 3 mm
- CABLE THICKNESS 1.8 mm
- OUTPUT RATING 140 or 80 W/m<sup>2</sup>
- INSULATION ETFE
- MINIMUM INSTALL TEMPERATURE 5°C
- CONNECTION 3 m coldtail; flat 2 core cable with earth braid



**Dry installation:**  
no screeding required

> Fits around fixed objects



**Ideal for floating**  
floor finishes

> Low-profile design



**Simple to install:**  
roll out and turn

> Range of sizes and heat outputs



For more examples of floor CAD sections, scan this QR code. Foil Heater is compatible with solid, beam & block, floating timber, battened, joisted and pre-cast plank subfloors.



### CASE STUDY / BRIGHTON

#### Site J / New England Quarter

147 apartments to Code 5 constructed on the site of the old LB&SC Railway locomotive works on a manmade embankment. Our solution did not need screed, thus reducing the building's overall weight and avoiding the requirement for extra support piling, saving hundreds of thousands in construction costs.

# Electric insulation & overlay

Our range of insulation boards enhances energy efficiency and response times of electric systems.

	ULTRALIGHT	CEMENT COATED	INSULATED UNDERLAY
DCM-PRO	✓	✓	-
LOOSE WIRE	✓	✓	-
STICKYMAT	✓	✓	-
INSCREED	-	✓	-
FOIL HEATER	-	-	✓
STICKYMAT 3D	-	✓	-





**Ultralight™**

4 IN 1 — INSULATING, HEAT SPREADING, DECOUPLING, SOUND REDUCING

**INSULATION BUILDUP**

- 1 Non-woven fleece
- 2 Heat spreading aluminium
- 3 220 kPa insulation
- 4 Decoupling non-woven fleece

**ACOUSTIC PERFORMANCE**

Warmup Ultralight is tested and rated for its acoustic performance by Intertek Building & Construction in accordance with ISO 10140-2, ISO 10140-3, ASTM E90 and ASTM E492. Results obtained are tested values and were obtained by using the designated test methods in test chambers that satisfy the lab requirements specified in ISO 10140-5.



Scan to find out more

Ultralight by Warmup is a high-performance underfloor heating board that features 4-in-1 benefits to retain radiant heat better, spread warmth more quickly, reduce noise and protect tiled floor finishes.

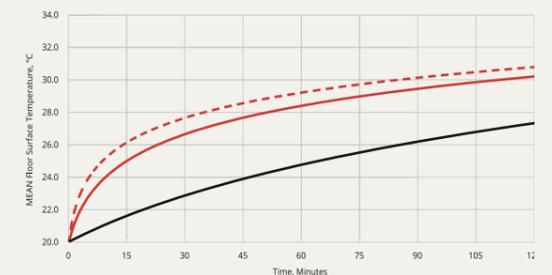
Ultralight is the next generation of insulation by Warmup, developed for faster heat up times and to offer an easier, more flexible installation. It has a 10% higher heat output for the same floor surface temperature whilst providing 50% more even heating and 30% faster heat up times than standard insulation boards. Its larger size and lightweight but durable design means it is less than half the weight of other insulation boards and can be easily cut to requirements with no risk of dust. Ultralight utilises a four-layer construction method with an aluminium layer for heat conductivity and a decoupling layer to help protect tiled floor finishes. Ultralight also features soundproofing qualities which are comparable to dedicated acoustic products without compromising on its performance.

**TECHNICAL SPECIFICATIONS**

- PACK SIZE 1, 6, 16 or 170 boards
- THICKNESS 6 mm (± 0.3 mm)
- DIMENSIONS 800 × 1200 mm (± 6 mm)
- AREA 0.96 m<sup>2</sup>
- WEIGHT OF BOARD 1.1 kg
- THERMAL RESISTANCE, EN 12667 0.111 m<sup>2</sup> K/W
- THERMAL CONDUCTIVITY, EN 12667 0.054 W/mK
- REACTION TO FIRE, EN 13501-1, EN ISO 11952-2 Euroclass E
- RELEASE OF DANGEROUS SUBSTANCES, REACH SVHC ≤ 0.1% w/w
- COMPRESSIVE STRENGTH, 10% COMPRESSION, EN 826 220 kPa
- POINT LOADING, TILED ANSI A118.12 ≥ 2.2 kN
- ROBINSON TEST, 100 - 199 MM TILES, ASTM C627 Domestic
- ROBINSON TEST, 200 - 599 MM TILES, ASTM C627 Light commercial
- ROBINSON TEST, ≥ 600 MM TILES, ASTM C627 Heavy commercial
- LONG TERM WATER ABSORPTION, EN 12087 0.052% w/w
- WATER VAPOUR PERMEABILITY, EN 12086 9.12 mg/m<sup>2</sup>h
- MOULD GROWTH, ANSI A118.12 Does not support mould growth
- 7 DAY SHEAR STRENGTH, ANSI A118.12 113 psi (780 kPa)
- CRACK RESISTANCE (ANTI-FRACTURE/DECOUPLING), ANSI A118.12 ≥ 1/8" => high performance

**RESPONSE TIME**

**Ultralight vs traditional insulation**



Tiles over eUFH @ 150 W/m<sup>2</sup>

- Timber subfloor with Ultralight
- Screed subfloor with Ultralight
- Screed subfloor without Ultralight

In tests, a 150 W/m<sup>2</sup> eUFH heater over a 65 mm insulated screed, the floor will take 110 minutes to achieve 27°C. By installing Ultralight beneath the eUFH, the same temperature is reached in just 34 minutes.



Heat-spreading aluminium layer and decoupling layer

- > Sustainable heating: each pack of Ultralight saves over 350kg of CO<sub>2</sub> every year



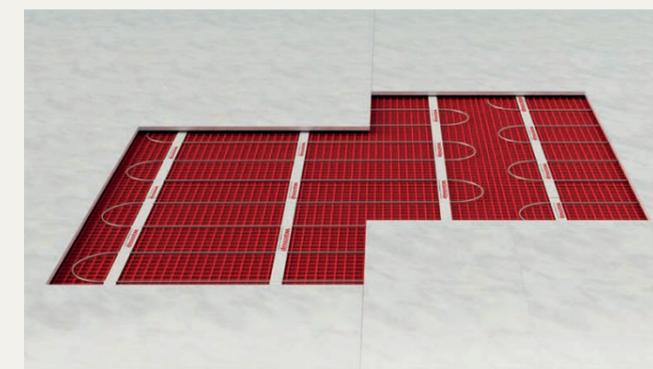
Low-weight design: easier to transport

- > Dust-free and easy to cut
- > Use with UFH systems



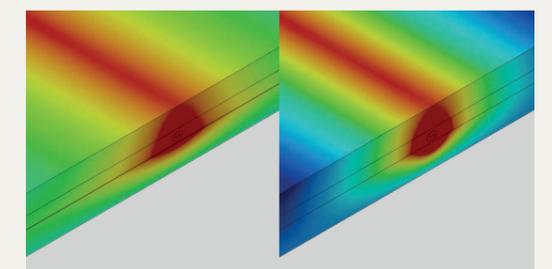
50% more even heating  
30% faster heat up times

- > 28% larger compared to standard insulation boards



**IMPROVED HEAT SPREAD**

**Ultralight vs traditional insulation**



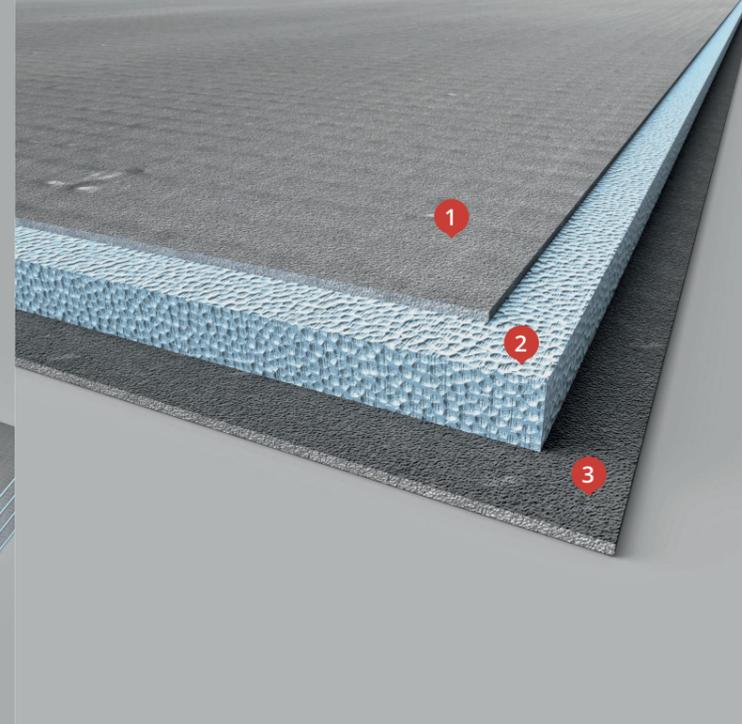
6 mm Ultralight      6 mm traditional insulation

When operating at a 29°C max. surface temperature, traditional insulation would result in a minimum surface temperature just below 26°C. By comparison, Ultralight increases this to 27.5°C resulting in increased comfort and a 10.5% increase in heat output.



# Cement Coated Insulation Boards™

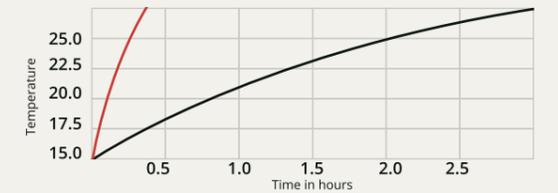
WATERPROOF INSULATION FOR WALLS & FLOORS



## INSULATION BUILDUP

- 1 mm cement coating with fibreglass mesh
- 300 kPa XPS insulation
- 1 mm cement coating with fibreglass mesh

## HEAT-UP CHART



— With insulation board — Without insulation board

In testing, heat-up time was cut from over 2 and a half hours to just 20 minutes. This data applies to Warmup heating products only. Source: Warmup tests performed to EN442-2 standards

Warmup's Cement Coated Insulation Boards improve the responsiveness of underfloor heating systems, cutting heat-up times by up to 90% and offering savings on energy bills.

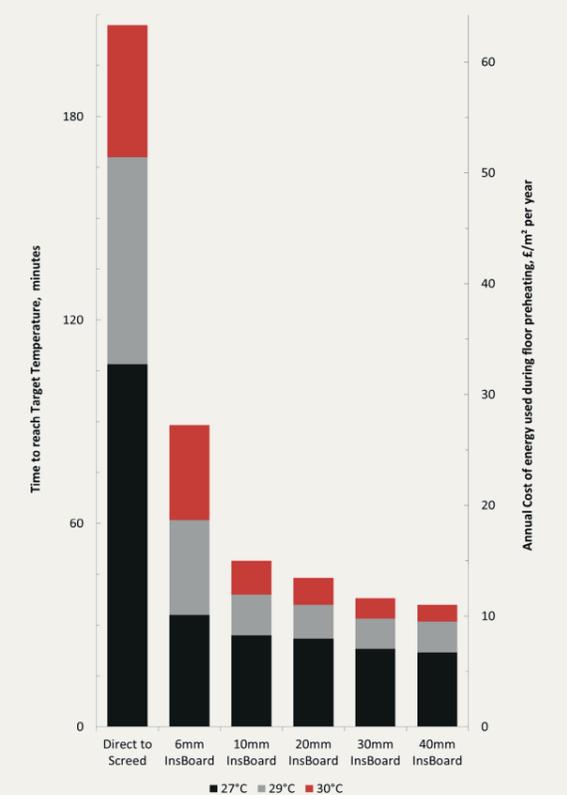
Warmup's Cement-Coated Insulation Boards greatly improve the energy-efficiency of an underfloor heating system; promoting quicker heat-up times and reducing heat-loss. Its strong but flexible design significantly reduces the amount of heat absorbed by the subfloor by preventing the heat from the floor heater escaping downwards, making sure the heat stays in the room.

With both waterproof and soundproof qualities, Warmup Cement-Coated Insulation Boards are manufactured from extruded polystyrene and finished on both faces with a thin layer of fibreglass reinforced cement. They are available in a range of thicknesses and also make ideal tile backer boards.

## TECHNICAL SPECIFICATIONS

- WIDTH 600 mm
- LENGTH 1250 mm
- THICKNESS 6, 10, 20, 30, 40 or 50 mm
- AREA 0.75 m<sup>2</sup>
- WEIGHT OF BOARD 2.2, 2.3, 2.5, 2.8, 3.03 or 3.2 kg
- THERMAL RESISTANCE, EN 12667 0.11, 0.22, 0.50, 0.78, 1.06 or 1.33 m<sup>2</sup> K/W
- THERMAL CONDUCTIVITY, EN 12667 0.036 W/mK
- COMPRESSIVE STRENGTH, 10% COMPRESSION, EN 826 300 kPa
- BOND STRENGTH 220 kPa
- SHEAR BOND STRENGTH 325 kPa
- MAXIMUM TILE WEIGHT (FOR WALLS) 60 kg/m<sup>2</sup>
- THERMAL EXPANSION CO-EFFICIENT (FOAM CORE ONLY) - % BY VOLUME ≤ 0.07
- WATER ABSORPTION (2 DAY IMMERSION) (FOAM CORE ONLY) - % BY VOLUME ≤ 1.5
- FIRE RATING - EUROCLASS E
- ZONE DEPLETION POTENTIAL - ODP 0

## EFFECT ON PREHEATING TIMES



Costs based on electricity priced at 34p/kWh, with 2 heating periods per day throughout a 180 heating season

We conducted extensive testing of our electric underfloor heating systems when used in combination with our range of Cement Coated Insulation Boards.

The tests consisted of a 75 mm screed subfloor, heated with a 150 W/m<sup>2</sup> under tile heating system. The range of boards were each installed between the sub floor and the heated tiles with a reference construction that had none.

The chart shows the response times and resulting costs of preheating the floors from 18°C to 3 different temperature settings. Even just a 6 mm board makes a significant improvement to system performance and provides savings that quickly recover their initial purchase price.



Improves heat-up times by up to 90%

> Range of thicknesses from 6 to 50 mm



Reduces heat loss

> Strong and flexible design

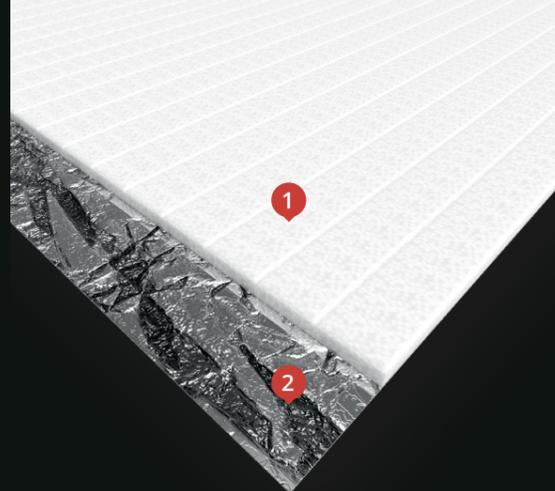


Waterproof and soundproof properties

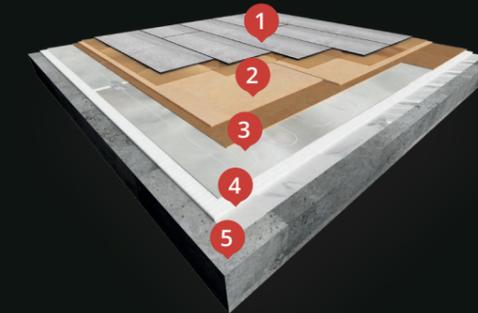
> Use on both floors and walls



# Insulated Underlay™



# Dual Overlay™



Our Insulated Underlay enhances heater efficiency when used with our Foil Heater and Dual Overlay as part of a complete and stable system.

Designed specifically for use under the Warmup Foil Heater system, it is installed between the subfloor and the Foil Heater, reducing heat loss downwards, making the system more energy efficient.

Installation is quick, clean and dry, making it an easier option for installers. With the foil acting as a moisture barrier, it is installed foil side down, the protective film from the self-adhesive strip is removed and the underlay is stuck to the subfloor.

## INSULATION BUILDUP

- 1 6 mm 43 kPa ribbed EPS insulation
- 2 Polyethylene foil backing

## TECHNICAL SPECIFICATIONS

**SIZE / WIDTH** 1200 mm  
**SIZE / COVERAGE/PACK** 2.5, 5, 10, 25 m<sup>2</sup>  
**THICKNESS** 6 mm (± 0.5 mm)  
**COMPOSITION / TOP LAYER** Ribbed EPS  
**COMPOSITION / BOTTOM LAYER** PE foil backing  
**DENSITY** 18 kg/m<sup>3</sup>  
**IMPACT SOUND REDUCTION** 21 dB ΔLw \*  
**WATER VAPOUR DIFFUSION RESISTANCE** > 100 SD  
**TEMPERATURE RANGE** -30°C up to +70°C  
**COMPRESSIVE STRENGTH** 43 kPa  
**THERMAL CONDUCTIVITY** 0.033 W/mK  
**THERMAL RESISTANCE** 0.17 m<sup>2</sup>K/W  
**TOG** 1.7  
**FIRE CLASS EN13501** B<sub>fl-s1</sub>

The Dual Overlay system is recommended for use with Warmup's Foil Heater to protect it under softer floor coverings.

Warmup Dual Overlay is a free-floating system designed for use over the Warmup Foil Heater system. It provides a smooth and seamless subfloor, suitable for soft and resilient floor coverings such as carpet and LVT, linoleum, and vinyl flooring.

The boards consist of base board and a top board with two self adhesive layers that bond themselves together to create a smooth, continuous floating floor deck over the Foil Heater ready for the floor finish to be laid over.

## TYPICAL FLOOR BUILDUP

- 1 **Floor finish**  
Compatible floor finishes such as carpet, LVT, linoleum and vinyl flooring
- 2 **Warmup Dual Overlay \***  
Not suitable for wet areas such as bathrooms or for tile, glued or nailed wood floor finishes.
- 3 **Warmup Foil Heater**
- 4 **Warmup Insulated Underlay**
- 5 **Pre-insulated subfloor with a surface regularity of SR1**

## TECHNICAL SPECIFICATIONS

**SIZE / PACK** 4 base and 4 top boards  
**SIZE / COVERAGE** 2.88 m<sup>2</sup>  
**SIZE / DIMENSIONS** 1200 × 600 mm (± 1.5 mm)  
**THICKNESS / TOP BOARD** 4 mm  
**THICKNESS / BASE BOARD** 3 mm  
**THICKNESS / TOTAL** 7 mm (± 0.2 mm)  
**COMPOSITION** MDF, interactive adhesive coating  
**COMPOSITION / BOTTOM LAYER** PE foil backing  
**DENSITY** 770 kg/m<sup>3</sup>  
**IMPACT SOUND REDUCTION** 21 dB ΔLw \*  
**COMPRESSIVE STRENGTH** 1000 kPa  
**BENDING STRENGTH** > 40 kg/cm<sup>2</sup>  
**COMPRESSIVE STRENGTH** 1000 kPa  
**HUMIDITY** 4-10%  
**THERMAL CONDUCTIVITY** 0.114 W/mK  
**THERMAL RESISTANCE** 0.072 m<sup>2</sup>K/W  
**TOG** 0.072  
**FIRE CLASS EN13501 (WDO)** B<sub>fl</sub>  
**FIRE CLASS EN13501 (WDO WITH 2 MM LVT)** C<sub>fl</sub>



Acoustic properties



Foil backing for moisture barrier



Only 6 mm depth



Provides a stable subfloor



Protects Foil Heater



Slim 7 mm depth



\* Not required when installing some floating wood or laminate floor finishes.

# Thermostats.

## Our goal is to improve home-life

With Warmup Smart, managing your heating system has never been so easy. Our smart products save you energy and money, on average £400 per year for a typical UK home. They eliminate the necessity to manage your system, without any effort on your behalf, giving you one less thing to worry about and allowing you to focus on the things that matter, like family, friends and stress-free time.

## Our philosophy

Warmup Smart is passionate about creating products that work simply and beautifully, whilst improving the efficiency and comfort of your home. We believe that your home is where you feel safe, relaxed and comfortable; the place you go to disconnect from all the distractions of day-to-day life. Our work is built on these foundations.





**6iE™**  
WIFI SMART THERMOSTAT



## The 6iE WiFi smart thermostat is the world's first underfloor heating controller with a Smartphone touchscreen. It offers a quick, hassle-free installation and true ease of use for the end-user.

The 6iE Smart WiFi Thermostat combines advanced technology with premium design and materials to create the ultimate underfloor heating controller. It is quick to install and can be up and running within a matter of minutes.

Featuring the world's first Smartphone touchscreen on a floor heating controller, the 6iE WiFi thermostat offers true ease of use – simply scroll and swipe to set your ideal heat schedule. The 6iE can be personalised with custom photo backgrounds and its clean, low-profile design will suit all contemporary homes.



### Automatic heat control with SmartGeo technology

- > Compatible with all Warmup UFH systems
- > Weather-based Early Start: no energy waste



### Two colour options

- > Set up in minutes
- > Helps save on energy bills



### Smartphone touchscreen

- > High-quality, ultra-slim design
- > Finds efficient heat settings

## The smartest way to control systems from the world's best-selling floor heating brand.

6iE utilises SmartGeo technology to learn the end-user's routines, offering radiant warmth at the right temperature, at the right time, automatically. With energy-monitoring functionality and the ability to be controlled remotely, using 6iE with our MyHeating and AutoSwitch apps can reduce energy usage by 25% and help save over £400 on energy bills.

### BUILDING MANAGEMENT SYSTEMS COMPATIBILITY

6iE is compatible with several Building Management Systems. We can provide software drivers for Control 4 and Crestron Installers to load inside these systems, allowing 6iE to appear and be individually controlled from within the interface.

### MODELS

#### Onyx Black

**HOUSING COLOUR** Onyx Black  
**BAND** Dark chrome

#### Bright Porcelain

**HOUSING COLOUR** Bright Porcelain  
**BAND** Light chrome

### TECHNICAL SPECIFICATIONS

**DIMENSIONS (FROM WALL)** 90 × 115 × 16 mm  
**SCREEN SIZE** 3.5"  
**OPERATING VOLTAGE** 230 V AC : 50 Hz  
**PROTECTION CLASS** Class II  
**MAXIMUM LOAD** 16 A (3680 W)  
**RATED IMPULSE VOLTAGE** 4000 V  
**AUTOMATIC ACTION** 100,000 cycles  
**DISCONNECTION MEANS** Type 1B  
**POLLUTION DEGREE** 2  
**MAXIMUM AMBIENT TEMPERATURE** 40°C  
**RELATIVE HUMIDITY** 80%  
**IP RATING** IP33  
**SENSORS** Air & floor (ambient)  
**SENSOR TYPE** NTC10k 3 m long (can be extended to 50 m)  
**OPERATING FREQUENCY** 2401 - 2484 MHz  
**MAX. RADIO-FREQUENCY POWER TRANSMITTED** 20 dBm  
**INSTALLATION DEPTH / RECOMMENDED** 50 mm black box  
**INSTALLATION DEPTH / MINIMUM** 35 mm black box  
**ER-P CLASS** IV  
**WARRANTY** 12 years  
**APPROVALS** BEAB  
**COMPLIANCE** CE & UKCA marked  
**COMPATIBILITY** Electric underfloor heating  
Hydronic underfloor heating  
Central heating systems (combi & system boilers with switch live, 230 V AC input)





# Element™

WIFI SMART THERMOSTAT



The Element WiFi smart thermostat has been designed with simplicity and stylish functionality in mind to bring energy-efficient heating control to all Warmup floor heaters.

Combining Smart technology with simple, contemporary design, the Element WiFi Thermostat is the perfect all-rounder to control Warmup heating systems. The Element WiFi Thermostat utilises simple touch buttons for accurate control of your underfloor heating system. Its sleek, unobtrusive design will suit any home décor.



### Sophisticated, stylish design

- > Quick to install
- > Set up in minutes



### Helps save over £400 on bills

- > Automatic heat functionality
- > Finds efficient heat settings



### Simple touch button control

- > Compatible with all Warmup UFH systems
- > Weather-based Early Start: no energy waste



## Smart underfloor heating. Simplified.

Element utilises SmartGeo technology to learn the end-user's routines, offering radiant warmth at the right temperature, at the right time, automatically. With energy-monitoring functionality and the ability to be controlled remotely, using Element with our MyHeating and AutoSwitch apps can reduce energy usage by 25% and help save over £400 on energy bills.

### BUILDING MANAGEMENT SYSTEMS COMPATIBILITY

6iE is compatible with several Building Management Systems. We can provide software drivers for Control 4 and Crestron Installers to load inside these systems, allowing 6iE to appear and be individually controlled from within the interface.



### MODELS

#### Dark

HOUSING COLOUR Dark  
BAND Dark chrome

#### Light

HOUSING COLOUR Light  
BAND Rose gold

### TECHNICAL SPECIFICATIONS

- DIMENSIONS (FROM WALL) 86 × 86 × 16 mm
- SCREEN SIZE 1.8"
- OPERATING VOLTAGE 230 V AC : 50 Hz
- PROTECTION CLASS Class II
- MAXIMUM LOAD 16 A (3680 W)
- RATED IMPULSE VOLTAGE 4000 V
- AUTOMATIC ACTION 100,000 cycles
- DISCONNECTION MEANS Type 1B
- POLLUTION DEGREE 2
- MAXIMUM AMBIENT TEMPERATURE 40°C
- RELATIVE HUMIDITY 80%
- IP RATING IP33
- SENSORS Air & floor (ambient)
- SENSOR TYPE NTC10k 3 m long (can be extended to 50 m)
- OPERATING FREQUENCY 2401 - 2484 MHz
- MAX. RADIO-FREQUENCY POWER TRANSMITTED 20 dBm
- INSTALLATION DEPTH / RECOMMENDED 50 mm black box
- INSTALLATION DEPTH / MINIMUM 35 mm black box
- ER-P CLASS IV
- WARRANTY 12 years with option to upgrade to Lifetime
- COMPLIANCE CE & UKCA marked
- APPROVALS BEAB
- COMPATIBILITY Electric underfloor heating  
Hydronic underfloor heating  
Central heating systems (combi & system boilers with switch live, 230 V AC input)





# Konekt™

WIRELESS RANGE



Warmup's Konekt range provides advanced wireless control and automatic heat scheduling for hydronic floor heaters and allows connectivity with central heating systems.

The Konekt range by Warmup offers a wireless solution for controlling water underfloor heating systems. Its Smart technology allows personalised, automated heat schedules for the end user with the option of grouping heating zones together for even greater comfort and efficiency.

Konekt's heating controls allow a low-impact installation method, with little intrusive building work required. Konekt's Multifunction Manifold Control Centre is ideal for UFH systems in both off-plan projects and refurbishment projects and its accompanying eTRVs can be utilised to expand the system to bring advanced control to radiators.



Innovative wireless hydronic UFH control

- > Intuitive system control



Smart, room-by-room heat scheduling

- > Compatible with central heating



Works on 868 MHz: exceptional 200 m range

- > Energy-saving open window detection



## KONEKT WIRELESS THERMOSTAT WITH HUMIDITY SENSOR

The Konekt thermostat provides precise heat control for your water underfloor heating system. Its easy-to-use interface makes setting the optimal temperature simpler than ever.

### TECHNICAL SPECIFICATIONS

**DIMENSIONS** 55 × 55 × 23.5 mm  
**DIMENSIONS (INCLUDING FRAME)** 86 × 86 × 26 mm  
**WEIGHT (INCLUDING BATTERIES)** 100 g  
**SUPPLY VOLTAGE** 2 × 1.5 V LR03/micro/AAA  
**CURRENT CONSUMPTION** 50 mA maximum  
**BATTERY LIFE** 2 years (typ.)  
**IP RATING** IP 20  
**AMBIENT TEMPERATURE** 0 to 35°C  
**RADIO FREQUENCY BAND** 868.3 MHz / 869.525 MHz  
**MAXIMUM RADIATED POWER** 10 dBm  
**RECEIVER CATEGORY** SRD category 2  
**TYPICAL OPEN AREA RF RANGE** 250 m  
**DUTY CYCLE** < 1% per h / < 10% per h  
**SOFTWARE CLASS** Class A  
**METHOD OF OPERATION** Type 1  
**DEGREE OF POLLUTION** 2

- > Simple installation: perfect for new systems or retrofitting
- > Boost function: heat up the room quickly with one button
- > Creates a Smart water floor heating system



## KONEKT WIRELESS eTRV

The Konekt Wireless eTRV uses Smart technology to provide automatic heat control for radiators. It can help reduce typical energy usage by up to 30%.

### TECHNICAL SPECIFICATIONS

**DIMENSIONS** 56 × 115 × 67 mm  
**VALVE CONNECTION** M30 × 1.5 mm  
**WEIGHT (INCLUDING BATTERIES)** 180 g  
**SUPPLY VOLTAGE** 2 × 1.5 V LR6/mignon/AA  
**CURRENT CONSUMPTION** 100 mA maximum  
**BATTERY LIFE** 2 years (typ.)  
**IP RATING** IP 20  
**AMBIENT TEMPERATURE** 0 to 50°C  
**RADIO FREQUENCY BAND** 868.0-868.6 MHz / 869.4-869.65 MHz  
**MAXIMUM RADIATED POWER** 10 dBm  
**RECEIVER CATEGORY** SRD category 2  
**TYPICAL OPEN AREA RF RANGE** 250 m  
**DUTY CYCLE** < 1% per h / < 10% per h  
**SOFTWARE CLASS** Class A  
**METHOD OF OPERATION** Type 1  
**DEGREE OF POLLUTION** 2

- > Saves up to 30% on energy usage
- > Open window detection: automatic temperature regulation
- > Easy installation: for standard radiator M30 thread valves

The Konekt wireless range is completed by the **KONEKT WIRELESS SMART HUB**, the **KONEKT WIRELESS BOILER 2-CHANNEL SWITCH** and the **KONEKT WIRELESS 10-CHANNEL WIRING CENTRE 230V**. Scan the QR code opposite to discover more about the full range.



# Tempo™

DIGITAL PROGRAMMABLE THERMOSTAT



## Also available

OTHER THERMOSTATS

## Warmup's Tempo digital programmable thermostat is quick to install and offers easy control for the end-user's floor heating system.

The Tempo digital programmable thermostat is a suitable controller for all Warmup underfloor heating systems. Its simple, clear design and intuitive controls allow the end-user to set personalised heating programs with a turn of the dial.

It features Proportional Adaptive Function which learns the time it takes to warm a room and activates the floor heating early, so it is up to the right temperature when needed. Tempo is easy to install and can be up and running in mere minutes. It is available at an accessible RRP price point and can control more than one heater.



Use in manual or programmable mode

> 3 month battery backup



Quick to install, intuitive to use

> Clear digital screen



Easy to programme for end-users

> Compatible with all Warmup UFH systems



### MODELS

#### Piano Black

HOUSING COLOUR Piano Black  
DIAL BEZEL Chrome

#### Bright Porcelain

HOUSING COLOUR Bright porcelain  
DIAL BEZEL Chrome

### TECHNICAL SPECIFICATIONS

DIMENSIONS (FROM WALL) 90 × 113 × 23 mm

DISPLAY SIZE 45 × 50 mm

COLOURS Piano Black or Porcelain White

INPUT VOLTAGE 230 V ± 15% at 50 Hz

MAXIMUM LOAD 16 A (3680 W)

MAXIMUM AMBIENT TEMPERATURE 40°C

IP RATING IP20

SENSORS Air & floor (ambient)

SENSOR TYPE NTC10k 3 m long (can be extended to 50 m)

INSTALLATION DEPTH 35 mm black box

ER-P CLASS IV

WARRANTY 3 years with option to upgrade to Lifetime

COMPLIANCE CE & UKCA marked

APPROVALS BEAB



SUNSTONE TOUCHSTAT



MSTAT MANUAL THERMOSTAT

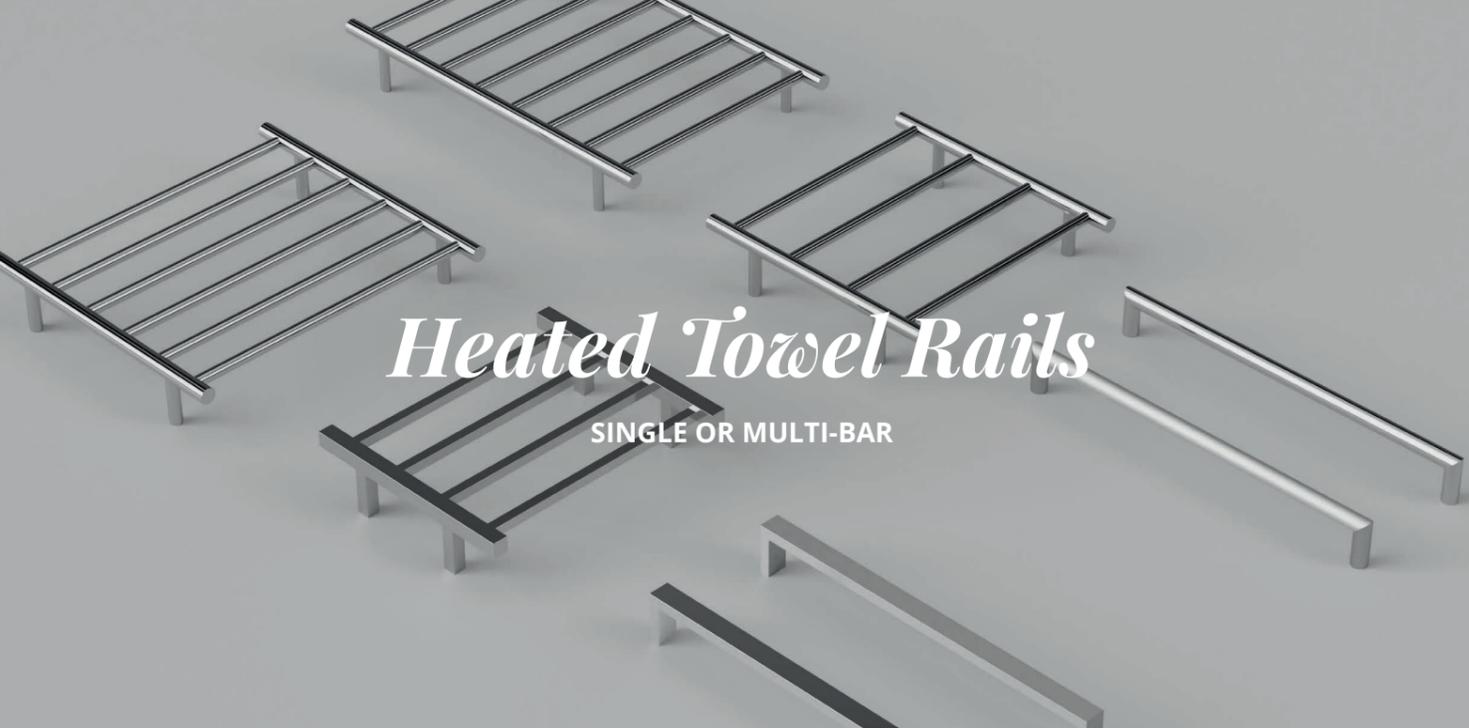


FUSED SPUR with integral 30 mA RCD

# Bathroom collection.

The Warmup Bathroom Collection combines cutting-edge technology with classic British design to create a range of innovative products for the stylish bathroom of your dreams.





# Heated Towel Rails

SINGLE OR MULTI-BAR

Our towel rails offer energy-efficient electric warmth for your bathroom. They are liquid-free and provide even heat dispersion with rapid heat-up times.

Warmup electric heated towel rails are an excellent, energy efficient solution to provide an additional source of heat for your bathroom as well as year round towel drying and warming. The rails use dry heating technology meaning they are maintenance free with no risk of leaks.

The rails are available in both single bar and ladder models with a variety of finishes to suit any bathroom style. They are manufactured using high quality stainless steel (SS304) making them resistant to staining and corrosion, ideal for bathroom environments.

Installation is straightforward as the rails can either be connected into the rooms lighting circuit, activating the towel rail when the lights are switched on or alternatively they can be controlled by an independent controller that provides power on demand. Warmup heated towel rails are available in a wide range of sizes and wattages to suit all bathrooms.



Two design styles:  
rounded or squared



IP55 rated  
for wet zones



Energy efficient, dry  
heat technology



Two finishes:  
polished or brushed

SINGLE BAR



Self-adhesive backing  
for a quick installation



Keeps mirror  
clean and clear



Range of sizes  
available



# Mirror Demister

DIGITAL PROGRAMMABLE THERMOSTAT

Easy to install and effortless to control, the Mirror Demisters turn your conventional mirror into a heated one that prevents condensation on the surface.

Mirror Demisters provide the perfect solution to the common problem of foggy mirrors after a hot shower by turning your conventional mirror into a heated bathroom mirror that prevents bathroom condensation from forming on the mirror's surface.

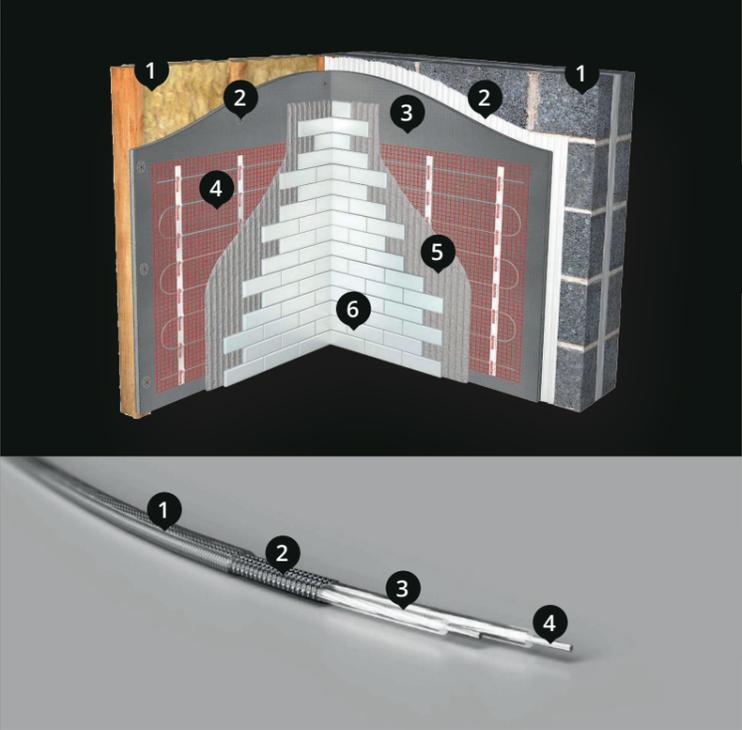
The Demisters take the form of a flat, electrically-heated film that attaches to the back of a new or existing bathroom mirror and with self-adhesive backing, installation is quick and easy. There are four sizes available and each provides an even and consistent heat distribution at 200 W/m<sup>2</sup>. It can connect to existing lighting circuit for automatic operation or operated use an independent controller.

## DIMENSIONS

RECTANGULAR 260 × 360 mm / 360 × 560 mm / 560 × 720 mm

CIRCULAR Ø 560 mm





**TYPICAL WALL BUILDUP**

- 1 Solid/stud wall
- 2 Flexible tile adhesive (solid walls) / Screw and washer (stud walls)
- 3 Warmup Cement Coated Insulation Board
- 4 Warmup StickyMat 3D
- 5 Flexible tile adhesive or plaster
- 6 Wall finish

**CABLE SECTION**

- 1 EFTE outer insulation
- 2 Earth braiding surrounding heating cores
- 3 EFTE inner insulation
- 4 Dual core, multi-strand heating element

The StickyMat 3D wall heating system features state-of-the-art technology to gently heat cold, tiled walls, helping to bring a touch of luxury to your bathroom or wet room.

Used in conjunction with a Warmup underfloor heating solution, the StickyMat 3D System is ideal for creating a 360° sense of warmth in your home. It has been developed by our in-house team of engineers and is recommended for installation with ceramic, stone or porcelain wall tiles.

StickyMat 3D is ideal if you're wishing to add to the heated area of a room when there is little available floor space and installing a system in your bathroom removes the need for traditional bulky radiators, allowing much greater design freedom. The gentle warmth produced by the system is ideal for a pre-heated walk-in shower and transforms the bathroom into a personal spa. It features a self-adhesive backing for an easy installation.



Quick response times

> 100% continuous earth braid



Eliminates condensation and mould growth

> Ideal for regular-shaped rooms



Ultra-thin 1.8 mm cable

> Pressure-sensitive adhesive



**TECHNICAL SPECIFICATIONS**

- WIDTH 500 mm
- MAT THICKNESS 3 mm
- CABLE THICKNESS 1.8 mm
- CONNECTION 3 m coldtail; flat 2 core cable with earth braid
- OPERATING VOLTAGE 230 V AC; 50 Hz
- OUTPUT RATING 200 W/m<sup>2</sup>
- HEATING CORES Dual core, multi-strand heating element
- IP RATING X7
- CABLE SHEATH Translucent
- CABLE SPACING 80 mm (± 3 mm)
- MESH Sticky pressure-sensitive fibreglass mesh
- INNER/OUTER INSULATION ETFE
- EARTH PROTECTION Metal braiding surrounding heating cores
- MINIMUM INSTALL TEMPERATURE -10°C

**MAT SIZE GUIDE**

AREA	POWER	LOAD	RESISTANCE	REFERENCE RES. BANDS
0.5 m <sup>2</sup>	100 W	0.43 A	0.43 Ω	502.6 - 555.5 Ω
1.0 m <sup>2</sup>	200 W	0.87 A	0.87 Ω	251.3 - 278.7 Ω
1.5 m <sup>2</sup>	300 W	1.30 A	1.30 Ω	167.5 - 185.1 Ω
2.0 m <sup>2</sup>	400 W	1.74 A	1.74 Ω	125.7 - 138.9 Ω



# Support.

# Trade Counter.

Central London's only floor heating advisory centre, warehouse and 2-hour delivery service, with early opening and late closing times.

**Advisory and quote service** — Call or email for an appointment. All your key questions answered by the experts, such as:

- Electric vs Water systems
- Energy efficiency, CO<sub>2</sub> emissions and costs
- Most appropriate system for your project
- Layout drawings and install steps

**Super fast ordering and pick up** — Call ahead, check availability and order. Collect your items in 30 mins, grab a free coffee, tea and snacks and get hands-on with our latest products. Enjoy complementary solar-powered charging available for electric and hybrid vans while you wait.

**2-hour London delivery** — Check online or call us for costs and precise timings for your area.

**Early opening, late closing** — 7 am opening and 6 pm closing to suit your schedule.



704 Tudor Estate  
Abbey Road, London  
NW10 7UW  
0345 345 2288

# The best floor heating. Guaranteed.

To the exceptional team that built Warmup, these are not just any words that can be said by any company. They are our promise.

**Warranties** — Warranties on our products are possible thanks to our commitment to R&D, ongoing quality assurance from the ISO 9001 process and the testing requirements of BEAB and other regulatory houses.

All of our systems come complete with working drawings, installation manuals and commissioning guidance.

In addition we have a suite of online tutorial videos but we appreciate that sometimes things just don't go according to plan and we ensure we are there to help during those moments as well.

**Technical support** — We offer support at every stage of a project, from an initial enquiry right through to post completion occupancy and then for the lifetime of the system. Support is available from a member of the Warmup team 24 hours a day 365 days a year by calling 0345 345 2288 Alternatively we offer online 'live chat' via our website between 08.30 and 17.30 hrs Monday to Friday.

If the heating system suffers accidental damage during installation, we will replace it free of charge under our SafetyNet™ Installation Guarantee.

If a floor is damaged post installation, we offer a dedicated team of service engineers to identify and rectify the fault.

# Global Projects Division.

Warmup offers a dedicated team to help you through each stage of your project by allocating a dedicated Project Director to support you from specifying and fitting, through to pre and post-installation.

**Our approach** — Upon receipt of your instructions and/or plans you will be assigned a dedicated in-house Project Director. Your Project Director will contact you to review your project to ensure we have a complete understanding of your needs and the issues affecting your project.

Upon receipt of all relevant project information including details of floor build up and final floor surface, a quotation will be turned around within 24 to 48 hours depending on the complexity of your project. At this point, you will be assigned a Project Manager.

Where appropriate we will provide advice, guidance and support both on and off-site where potential risks can be identified and prevented. Provide the highest quality of products and services that are tailored to meet your specific requirements, adhering to best practice at the right price and at the right time.

**Specification process** — Warmup products and solutions adhere to industry standards, government legislation and Building Regulations. The project team, led by your dedicated Project Director, will always recommend the best underfloor heating solution for your project, mindful of the need to keep to your specification, project works schedule and budget.

Upon receipt of your order, Warmup will provide working drawings for your approval to ensure there is a precise installation and zone control to the required area.

Working in collaboration with you, we will ensure co-ordination with the layouts and any integrated interior designs.



# Smartcare.

Instant issue resolutions & efficiency advice through remote diagnostics and phone support, free for Warmup Smart thermostat users.

Warmup Smartcare services offer comprehensive support and maintenance for customers using Warmup heating systems. With Smartcare, you can benefit from remote diagnostics of issues utilising data from your smart thermostats. Most issues, including programming and efficiency advice, can be resolved over the phone, ensuring swift and effective assistance. Best of all, Smart Care is provided free of charge to all Warmup Smart thermostat customers.

Utilising secured data received from your Warmup WiFi-connected thermostat, our team of experts can deliver remote diagnostics to help resolve most issues you may experience with your heating system. We can review your device's settings and control inputs alongside analysing your system's temperature readings and its historic behaviour to not only troubleshoot but to assist in improving your home's energy performance too. This service guarantees a better heating experience and creates a direct line of communication between you and our dedicated Smartcare support team.

**Smartcare Efficiency** — An upgraded service that focuses on maximising energy efficiency, providing insights that can reduce energy usage by up to 25%. Customers also gain access to expert advice and remote check-ups for their heating systems, ensuring optimal performance and cost savings.

**Smartcare Maintenance** — Access to the UK's only dedicated underfloor heating engineer network. This gives you access to call-out and repair assistance for Warmup Smart thermostats and heating systems, even addressing issues after the floor has been laid. With Smart Care Maintenance, you can rest assured that your heating system is well-maintained and promptly serviced by professionals. \*

\* Call-out and repair assistance may be chargeable in the event of installation errors.

**Resolving issues with your heating in minutes** — With our innovative remote diagnostic capability, our Smartcare agents can resolve almost any problem with your heating system in a matter of minutes over the phone, without having to call out an engineer to your home. So, whether your UFH system feels like it's taking too long to reach its target temperature or you're having trouble with your heating schedule, with Smartcare you'll be able to get an immediate solution with one-on-one advice, specific to your heating system.

If, for instance, your electric heating system doesn't feel like it's getting warm enough, the Smartcare team will access your heat settings remotely and will first confirm that your thermostat is set correctly. They will then be able to view both your room and floor temperature and assess whether the system has reached its limit or if there is another reason why the system isn't getting to its desired output. This kind of problem can be resolved with certainty, making managing your home's heating an easy, hassle-free experience.

**Improving your home's energy performance and saving you money** — Warmup Smartcare can also advise you on the best heat settings for your home to maximize the energy-efficiency and cost saving technology of underfloor heating. Our team can discuss your energy usage with you and suggest ways to reduce your power consumption based on your lifestyle and your property's requirements. We'll be able to illustrate if you're unnecessarily heating a zone or if your heat schedule can be optimized for a more economical approach. This kind of expert advice can not only reduce the carbon footprint of your home but can also save you substantial amounts of money on your energy bills

A5 150  
**66**

A4 150  
**50**

A3 150  
**53**

A2 150  
**54**

A1 150  
**65**

Cupboard

FIG 1



The world's **best-selling** floor heating brand™

## Warmup

704 Tudor Estate  
Abbey Road, London  
NW10 7UW

## Contact

0345 345 2288  
[uk@warmup.com](mailto:uk@warmup.com)  
[warmup.co.uk](http://warmup.co.uk)

## Issue

Projects Division  
Product Book  
September 2024