

Contura Floating Floor Underfloor Heating Installation Manual



Technical Helpline

0345 345 2288

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IMPORTANT

Please read this manual before attempting to install your underfloor heating.

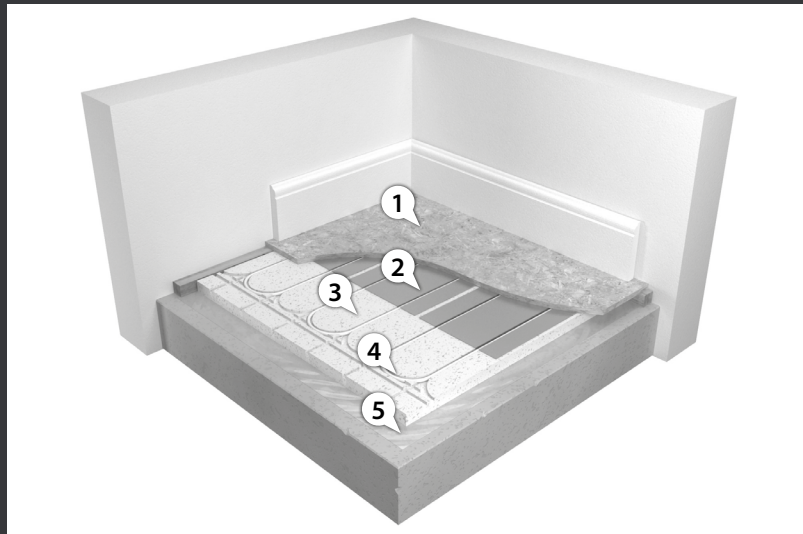
Incorrect installation will invalidate your warranty.

Warmup Plc, accepts no liability, expressed or implied, for any loss or consequential damaged suffered as a result of installations which in any way contravene the instructions that follow.

If you require any help at any stage of the installation please call our helpline :
Warmup Technical Helpline 0345 345 2288

Product Information - Warmup® Contura Floating Floor System

- ❶ Distribution Layer
- ❷ Warmup Diffusion Plate
- ❸ Warmup Contura Insulation
- ❹ Warmup Pipe
- ❺ Subfloor with DPM



System Description

The Warmup Contura Floating Floor System (combines preformed insulation and diffusion plates) is used where heating is installed onto a concrete or solid wooden subfloor but where a dry finish is used in place of a standard screed covering.

This system typically has a lower wattage per square metre output compared to traditional screeded floors.

It is suitable in refurbishment projects where sufficiently increased levels of insulation is applied. It can be installed under almost any floor finish, in particular engineered wood and composite laminate wood.

Technical Information

The insulation supplied must comply with Building Regulations in force at the time. It is an integral part of the Warmup Contura Floating Floor System.

Warmup diffusion plates are installed into the contours, followed by the pipework as per the approved design.

Once the system has been installed and pressure tested it should be protected and the final floor finishes laid as soon as possible.

Components Required

Item	Information
Warmup Pipe	PEX-a - 16mm PE-RT/AL /PE-RT - 16mm PE-RT - 16mm
Insulation Board	EPS - 200mm centres Thickness- 30mm - 100mm
Warmup Diffusion Plate	Single Plates 190mm x1000mm x0.6mm 190mm x1000mm x0.7mm
Warmup Pipe Bend Support. Part no. WHS-P-BEND	Suitable for use with all Warmup pipes

Important Information

Before commencing installation, it is important that a site inspection is performed. You will need to confirm that all measurements and other requirements on site match your building plans.

Ensure that all subfloors are the correct depth needed to incorporate the underfloor heating. Check for anything that might interfere with pipe installation such as concrete walls where they were not expected or changes to the floor layout. The subfloors should be finished to a minimum surface regularity of SR1.

Note: A redesign of the layout system may be required if any changes have been made.

Insulation

In accordance with Part 'L' of the current Building Regulations, a suitable layer of insulation material should be included within the floor construction. It is the responsibility of the Architect or Builder to ensure compliance. The insulation must be installed beneath the under floor heating system in order to ensure that any downward heat loss does not exceed 10W/m², in accordance with BS EN 1264.

Damage

Inspect the site for possible hazards that could damage the WARMUP pipe, such as nails, staples, materials or tools. Remove any items or potential hazards before installing pipe.

When handling the WARMUP PIPE it is important to protect the pipe from damage.

Uncoiling the pipe

DO NOT pull of the coil while it is sitting flat. It must be unwound from the coil, pulling from the top or the bottom of the coil.

Bending Radius of the Pipe

When laying the pipe, do not force the pipe into bends. It is easier to lay the pipe with a large radius and then gently pull the pipe to the required bend.

Cutting the pipe

Use a pipe cutter designed for plastic pipe ensuring that there are no burrs on the pipe ends. It is important to achieve a clean cut.

NOTE: If you accidentally damage a Warmup underfloor heating pipe BEFORE covering it, under the Warmup Safetynet guarantee you may return the damaged coil of pipe to Warmup, who will replace the coil FREE OF CHARGE with pipe of the same length and type.

Important Information

Pipe Installation

Install the pipe along outside walls first so that the hottest (supply) water goes to the coldest areas. Pipe should not be installed under appliances such as freezers.

If a pipe circuit is installed under floor coverings such as carpet and tile, install pipe under the high R-value area first if possible, as this area will require a higher water temperature.

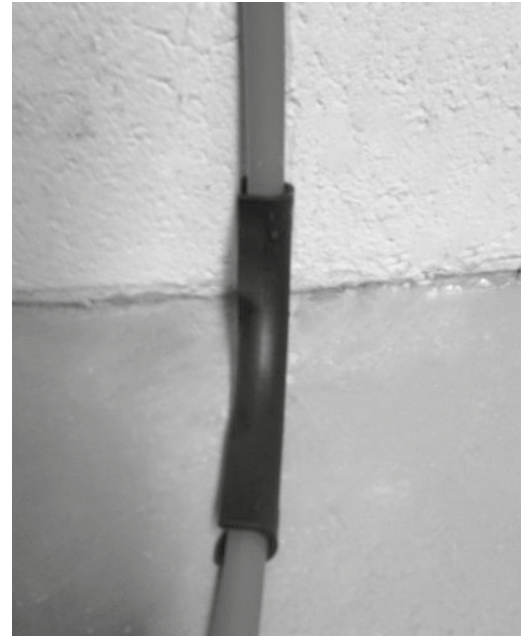
Keep pipe at least 10 cm from the edges of slabs, walls or other permanent objects in order to prevent damage. This will help to prevent damage to the pipe when these items or flooring materials are being installed.

Plan the circuit layout ensuring that pipes can connect to manifolds without crossing each other.

Protecting the Warmup Pipe

Pipe Bends

To install PVC Bend Guides, simply insert the WARMUP pipe through the PVC Bend Guide to the appropriate length, (50-75 cm) .The PVC Bend Guide should be positioned so that the pipe rises straight to the manifold with approximately half the guide within the floor.



Use the Warmup Pipe Bend Support where it enters the floor.

Warmup® Contura Floating Floor System - Installation

Step 1

Ensure that the installation area is dry and sealed to the elements and that you have a level floor surface. The subfloors should be finished to a minimum surface regularity of SR1.

NOTE: Additional insulation may be required in order to meet the current building regulations.

Step 2

Where installation is to take place onto a concrete base the Warmup polyethylene DPM sheets will need to be used.

Ensure that when each sheet is laid the edges overlapped by approximately 200mm and are sealed.

Where the perimeter strip will be used ensure that it is securely fixed to the DPM.

Step 3

For floors to receive a tiled floor finish or for light commercial use install battens equal in height to the insulation layer around the perimeter of the room and across door thresholds to provide additional support to the floor deck

Step 4

Lay the Contura panels ensuring that the loop ends are correctly positioned against the walls.

Mark out on the panels where any additional grooves are required and route out using an industrial router.

Step 5

Install the Warmup single diffusion plates to all straight run panels. Leave at least a 10mm gap between each plate.

Step 6

Following a single meander pattern Install the pipe by pushing into the grooves on the diffusion plates.

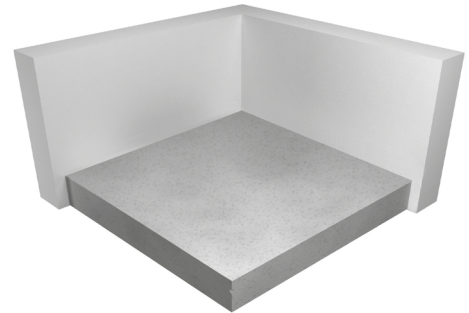
Step 7

Fix pipe bends to the pipe and connect to the manifold.

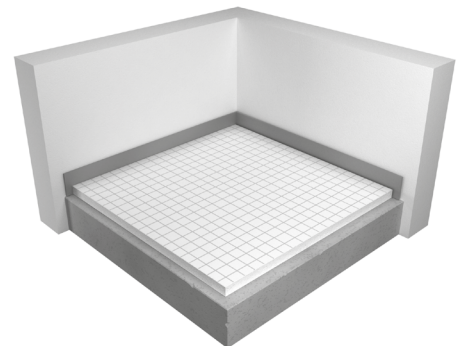
Step 8

A system pressure test **MUST** be carried out before the screed has been laid. The system should be filled and each circuit purged of air.

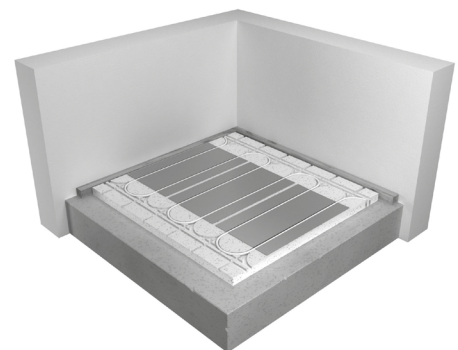
Please refer to the manifold manual for guidance on completing this.



Prepare the subfloor



Install additional insulation if required



Lay the Contura panels

Warmup® Contura Floating Floor System - Installation

Once all of the circuits have been laid you are ready to install the distribution layer.

Recommended distribution layers

A load distribution layer is required for most floor finishes.

Typically this distribution layer would be;

- HiDECK Overlay 18
- 18mm T&G Chipboard
- 18mm T&G Plywood

Ensure all T&G joints are properly made and glued, such that the panels form a contiguous floating floor deck.

Refer to the floor finish requirements when selecting and installing the floating floor deck to ensure compatibility.

Some floating floor finishes are designed to be laid directly over insulation layers such as Contura. Refer to that products manual for its specific requirements before proceeding



Final Floor Covering

Lay the final floor covering as per the manufacturers instructions ensuring that the distribution layer has been prepared correctly.

Note: The total tog of materials above the contura panels, including the distribution layer, any underlay and final floor covering should not exceed 2.5 tog.

Floor Coverings

When installing an underfloor heating system the thermal conductivity of the final floor covering must be considered at the design stage.

Ensure that the floor covering is suitable for use with underfloor heating. It is also important to check that any adhesives used with the floor covering are suitable and can tolerate the floor surface temperatures.

Timber floors

The important factor is the floor moisture content.

Timber floors can be laid directly over the screed if they have a moisture content of 10-11% which when heated will reduce to 8-9% and may cause a small amount shrinkage.

The floor will re-absorb some moisture when the heating is not operating and the moisture content will increase to 12-13%.

The timber floor finish should not exceed 18mm in thickness.

Carpet

The thermal resistance of carpets and underlay is fundamental in attaining good heat transfer.

For optimal system performance choose an underlay with a maximum TOG value of approximately 0.5. The maximum combined TOG value of carpet should not exceed 2.5 TOG.

Tiles

These floor coverings work well with under floor heating. The Tiles should be laid on a full bed with no air gaps. It is important that the design of the supporting floor structure is stable and rigid to prevent cracking. It is recommended that flexible adhesives and grout be used.

Vinyl

Check the floor surface temperature indicated by your vinyl supplier for compatibility with under floor heating.

Vinyl flooring carries a 27°C surface temperature limit.

Warranty

Warmup Plc Limited Warranty – Hydronic Floor Heating Pipe

PLEASE REGISTER YOUR UNDERFLOOR HEATING SYSTEM ONLINE AT: www.warmup.co.uk

Registration can be completed online at www.warmup.co.uk. In the event of a claim, proof of purchase is required, so keep your invoice and receipt - such invoice and receipt should state the type of pipe that has been purchased.

THIS WARRANTY DOES NOT EXTEND TO OTHER COMPONENTS WHICH ARE COVERED BY SEPARATE WARRANTIES. THIS WARRANTY DOES NOT AFFECT YOUR STATUTORY RIGHTS.

Limited Warranty:

Warmup® underfloor heating pipe is warranted by WARMUP PLC (“Warmup”) to be free from defects in manufacturing under normal use and maintenance, and is warranted to remain so subject to the limitations and conditions described below.

This warranty period begins on the date of purchase. Registration is confirmed only when confirmation of receipt is forwarded by Warmup PLC.

Warranty Duration



•The Pex-a Underfloor heating pipe is warranted for the LIFETIME of the floor under which it is fitted, except as provided below; your attention is drawn to the exclusions listed and the end of this warranty.



•The Pe-rt Underfloor heating pipe is warranted for a period of 50 years from date of purchase, except as provided below; your attention is drawn to the exclusions listed and the end of this warranty.

•The Pe-rt-Al-Pe-rt Underfloor heating pipe is warranted for a period of 50 years from date of purchase, except as provided below; your attention is drawn to the exclusions listed and the end of this warranty.

Notification of a suspected failure must be received in writing by Warmup within thirty (30) days of the suspected breach. Products believed to be defective must be made available to Warmup for testing and determination of cause.

Upon acceptance of any warranty claim, Warmup shall have ninety (90) business days in which to investigate and determine whether it recognises responsibility for any believed defects in material or workmanship and determines the appropriate course of action to be taken.

It is expressly agreed that the sole remedies under this limited warranty shall be at the discretion of Warmup, Plc. to either: issue a refund, repair or replace any article which is proven to be defective. Any and all allowances made to customers for transportation, labour, repairs or all other work, are at the exclusive discretion of Warmup and shall be authorised in writing, in advance, by Warmup. Such cost does not extend to any cost other than direct costs of repair or replacement by Warmup and does not extend to costs of relaying or repairing any floor covering or floor.

The warranty applies to the products identified above only if they:

1. are registered with Warmup within 30 days after purchase;
2. are selected, designed and installed by a qualified contractor according to installation instructions provided by Warmup which are current as of the applicable Installation Date;
3. are connected to appropriate power and water supplies;
4. are installed according to all applicable building code requirements;
5. are not exposed to pressures and/or temperatures that exceed any limitations printed on the warranted product or in the applicable Warmup product installation manual;
6. remain in their original installed location, such that the floor covering or screed over the product is not damaged, lifted, replaced, repaired or covered with subsequent layers of flooring;
7. do not show evidence of accidental damage, misuse, lack of care, tampering, or repair or modification without the prior written approval of Warmup Plc.

Without limiting the foregoing, this Warmup Warranty does not apply to:

- 1.damage or repairs required as a consequence of faulty installation, application or abnormal operating conditions;
- 2.damage caused during installation, screeding, laying of the flooring or floor finish, or any other remedial works to the floor that are done post installation;
- 3.damage as a result of floods, fires, winds, lighting, accident, corrosive atmosphere, ultraviolet light or other conditions beyond the control of Warmup Plc;
- 4.use of components or accessories not compatible with this product;
- 5.products installed outside the country of original intended destination when specified by Warmup.
- 6.Normal maintenance as described in the installation and operating manual.
- 7.Parts not supplied or designed by Warmup.
- 8.Any damage caused by frozen or broken heat transfer fluid pipes in the event of equipment failure.
- 9.Changes in the appearance of a product that does not affect its performance.

NOTE: It is important to check that the pipe is pressure tested as specified in the installation manual, prior to screeding or final flooring/finishes being laid.

The above Limited Warranty is the full extent of explicit warranties provided by Warmup Plc.

By mutual agreement of all parties, it is agreed that this limited warranty, any claims arising from breach of contract, any breach of warranty, or any other claim arising, shall be governed under the laws of England and Wales. It is expressly understood that Warmup Sales Representatives, Engineers, Distributors, Sub-contractors and Sales and Technical Support Team Members have no authority whatsoever to bind Warmup to any agreement, warranty or remedy of any kind without the express written consent of Warmup Plc.

WARMUP PLC. DISCLAIMS:

- ANY WARRANTY NOT PROVIDED HEREIN INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE.
- ANY STATUTORY OR IMPLIED WARRANTY OF HABITABILITY AS WELL AS ANY RESPONSIBILITY FOR LOSSES, EXPENSES, AND INCONVENIENCES, SPECIAL, INDIRECT, SECONDARY, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM POSSESSION OR USE OF THE PRODUCTS AND ITEMS SOLD HEREUNDER.

THIS WARRANTY DOES NOT AFFECT YOUR STATUTORY RIGHTS.



The Warmup SafetyNet Installation Guarantee for Underfloor Heating Pipe

The Guarantee:

If you accidentally damage a Warmup underfloor heating pipe BEFORE covering it with screed or other coverings, you may return the damaged coil of pipe to Warmup, who will replace the coil FREE OF CHARGE with pipe of the same length and type.

Exceptions:

- 1.The SafetyNet Guarantee does not cover any other type of damage, misuse, or improper installation due to improper adhesive or subfloor conditions. Limit of one free replacement coil of pipe of a maximum of 125m in length per customer, installer and/or property.
- 2.If at any point Warmup believes the damage to be malicious or intentional, they shall reserve the right to withdraw this guarantee.
- 3.Damage to the pipe that occurs after installing your system is not covered by the SafetyNet installation guarantee.
- 4.You must purchase the Warmup Underfloor Heating system from a recognised reseller, and follow all recommended installation procedures written in the, at time of purchase, current Installation Manual. Failure to follow the instructions will result in the revocation of the guarantee.

Warmup plc
Web: www.warmup.co.uk
Email: uk@warmup.com
Tel: 0345 345 2288
Fax: 0345 345 2299