Warmup

Nexxa Castellated System

Installation manual







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Your Warmup[®] underfloor heating system has been designed so that installation is quick and straight forward, but it is important that the instructions in this manual are followed to ensure that your underfloor heating system performs correctly. Please ensure that you have the components and working drawings necessary for this system before you begin installation.

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

It is important that before, during and after installation that all requirements are met and understood. If the instructions are followed, you should have no problems. If you require help at any stage, please contact our helpline.

You may also find a copy of this manual, wiring instructions and other helpful information on our website

www.warmup.co.uk

Installation summary

Please also read the full instructions that follow this section.



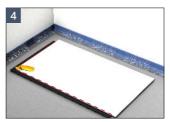
 The subfloor must be clean, level, smooth, dry, frost-free, solid, suitably weight-bearing and dimensionally stable.



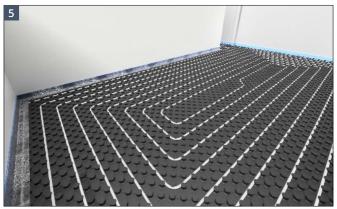
- Lay a damp proof membrane over the subfloor to prevent water ingress.
- Install perimeter strip around the perimeter of the room to allow for differential movement between finished floor level and walls.



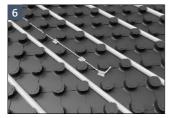
 Lay insulation board over the membrane. Insulation should be chosen and installed in line with building regulations.



• Cut the Nexxa panel to size as required, laying additional sheets overlapping the outer row of smaller castellations to create a continuous layer.

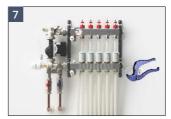


- Install the pipe in line with the projects working drawings. It is recommended the pipe is installed using a **spiral** pattern to achieve an even surface temperature and a high heat output.
- · Install the pipe at the necessary spacing for the heat output required.



 Install the floor sensor centrally between the two closest parallel runs of pipe.

DO NOT tape over the sensor tip. It must be fully embedded within screed being laid over.



- Measure and cut the pipe so that it reaches both the flow and return ports on the manifold.
- Refer to the manifold manual for detailed information on mounting, pressure testing and commissioning.



- Use Warmup pipe bend supports to hold the flow and return pipe at a 90° angle as it exits the floor towards the manifold.
- Install pipe conduit or lagging over the service pipes to insulate the pipes and alleviate any hotspots.



- Before the screed is laid the pipe should be pressure tested and then held at 3 bar whilst screeding.
- Lay your chosen screed directly over the heating system in accordance with manufacturer instructions, building regulations and standards taking care not to damage the pipe.



 Lay your chosen floor covering once the screed layer has cured and dried, in accordance with floor manufacturers instructions.



 Install your Warmup thermostat referring to their installation instructions. The system must be connected to and controlled with a thermostat and sensor.

Important installation information

- Perform a site inspection. You will need to confirm that all 1 measurements and other requirements on site match your working drawings. Ensure that all areas are correctly prepared, dry and protected from weather. Inspect the site for possible hazards that could damage the 1 Warmup pipe, such as nails, staples, materials or tools. Use a pipe cutter designed for plastic pipe ensuring that there are i no burrs on the pipe ends. It is important to achieve a clean cut. The installation of the system must comply current edition of 1 building regulations. Do not pull pipe from the coil while it is sitting flat. It must be 1 unwound from the coil, rotating the coil as the pipe is pulled from the inside. Do not force the pipe into bends. It is easier to lay the pipe with 1 a large radius and then gently pull the pipe to the required bend. The minimum bending radius is 5 times the diameter of the pipe. Do not kink the pipe. Excessive bending of the pipe can cause it to 1 kink, where this occurs flow may be obstructed or reduced. Kinked pipe must be repaired or replaced. Ensure the subfloor is prepared to an SR2 standard. The subfloor 1 must be clean, level, smooth, dry, frost-free, solid, suitably weightbearing and dimensionally stable. Screed and insulation layers used with Warmup Nexxa should 1 be chosen and installed in line with building regulations and standards. Warmup Nexxa Insulating & Acoustic panels are intended for 1 multi-residential dwellings. Its thermal insulation performance is sufficient to meet the requirements of separating floors defined within EN 1264 and ISO 11855 Install the floor sensor centrally between the two closest parallel 1 runs of pipe and away from other heat sources such as hot water pipes, lighting fixtures, chimneys etc. Before installing the floor finish, its suitability for use with 1 underfloor heating and its maximum operating temperature should be checked against required operating conditions. Ensure the heat output of the floor meets your requirements. Ensure adhesives, grouts, glues and screeds used are compatible 1 with underfloor heating. Underfloor heating performs the most efficiently with conductive, i low resistance floor finishes such as stone and tiles. Consideration should be given to the thermal resistance and temperature limits of the chosen floor covering and its impact on the system heat output. It is recommended that all furniture installed over underfloor 1 heating has feet, maintaining a minimum 50 mm ventilated space above the floor to allow heat flow into the room. DO NOT switch on the heating system until the screed layer has fully cured.
 - DO NOT use metal staples to secure the pipe to the subfloor.

Components available from Warmup

Product Code Description Nexxa WHS-TL-ALU10 Castellated panel with integrated 10mm insulation Nexxa Peel & Stick NEX-P&S Castellated panel with self-adhesive backing **Nexxa Insulating & Acoustic** NEX-30 Castellated panel with integrated 30mm insulation with acoustic properties WHS-CL-T60 Warmup clips WHS-P-PERT-xx xx = length: 25, 50, 60, 70, 80, 90, 100, PE-RT Pipe- 16mm x 2mm 110, 120, 300m WHS-P-BEND Pipe bend supports WHS-CL-CONDUIT Pipe conduit 25mm x 50m WHS-X-EDGE50 Warmup perimeter strip WHS-P-DECOILER Pipe decoiler WHS-X-POL1200 Polythene DPM; 1200 gauge WHS-MT-B0xxyy WHS-MT-B0xxyy+ **EPS** Insulation xx = kpa: 70 / 100 yy = thicknesses: 25, 50, 70, 100mm + = 0.030W/mK WHS-MT-INSxx xx = thicknesses: PIR Insulation 25, 30, 40, 50, 60, 70, 75, 80, 90, 100mm Additional components that may be required as part of your Warmup heating installation: Manifold, mixing unit, actuators, valves and euroconus connectors Wiring centre Warmup thermostats

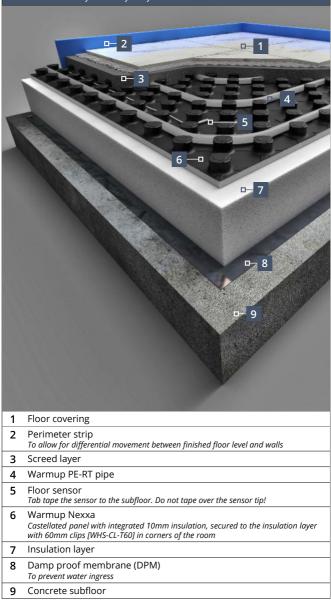
Electrical trunking/conduit

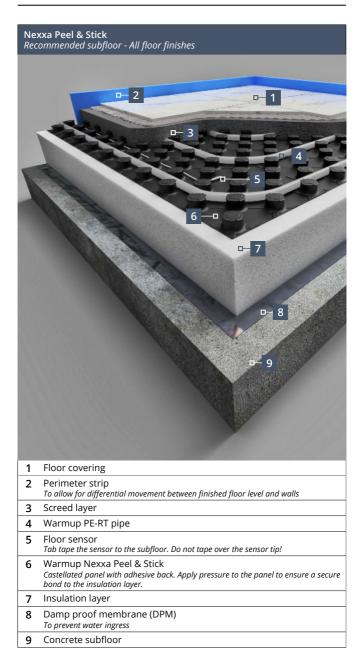
Digital multi-meter required for testing the resistance of the sensor

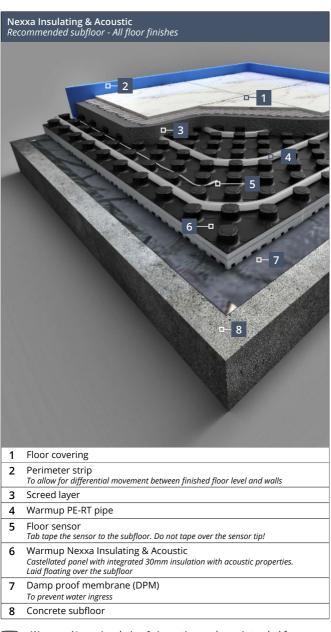
Electrical tape to secure the sensor

Screed

Nexxa *Recommended subfloor - All floor finishes*







Warmup Nexxa Insulating & Acoustic panels are intended for multi-residential dwellings. Its thermal insulation performance is sufficient to meet the requirements of separating floors defined within EN 1264 and ISO 11855

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The concrete subfloor must be clean, level, solid, structurally sound and dimensionally stable. Ensure the subfloor is prepared to an SR2 standard (SR2 - the maximum permissible departure over a 2 m straight is 5 mm).

If necessary an appropriate blinding layer should be applied.



Any materials on or within the subfloor must be suitable for supporting underfloor heating systems. If using temperature sensitive materials beneath the heating cable, such as damp proofing or tanking systems, contact the manufacturer for advice.



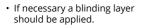
Where tiles are to be used, ensure that the subfloor meets the local tiling standard requirements.



Do not commence installation without ensuring that the resulting floor construction will meet the requirements of the floors intended use and its finish.



 The subfloor must be clean, solid, structurally sound and dimensionally stable. Ensure the subfloor is prepared to an SR2 standard (SR2 - the maximum permissible departure over a 2 m straight edge is 5 mm).





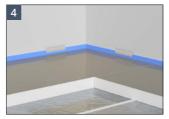
 Lay a damp proof membrane over the subfloor to prevent water ingress.



- Install perimeter strip around the perimeter of the room to allow for differential movement between finished floor level and walls.
- Tape the perimeter strip to the wall to hold in position.



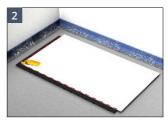
Ensure the perimeter strip is installed with the integrated polyethylene skirt facing out from the wall.



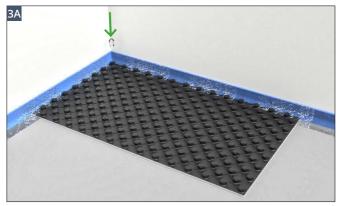
- Lay insulation board over the membrane referring to manufacturer instructions and in line with building regulations
- Ensure the insulation board is pressed against the perimeter strip.
 - If installing Nexxa Insulating & Acoustic panels this insulation layer may not be required. Refer to local building regulations. The panels can be laid directly on the damp proof membrane



 Before installing the Nexxa panels, sweep the floor to clear any debris.

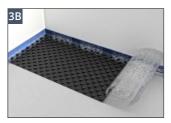


 Turn the first Nexxa panel upside down, remove the first outer row of larger castellations on its length and width using a utility knife.



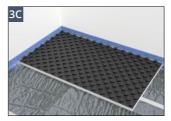
- · Place the first panel in the corner of the room.
- Nexxa

Lay the panel floating over the insulation layer. The supplied 60mm clips will be required to secure the panels in the corners of the room to the insulation layer beneath.

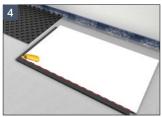


Nexxa Peel & Stick
 Peel back the release film from
 one corner and tack in place.

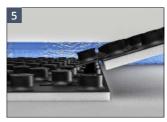
 Once correctly positioned remove
 the release film entirely and press
 down firmly to attain a secure
 bond with the insulation layer.



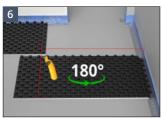
 Nexxa Insulating & Acoustic The Nexxa Insulating & Acoustic panels can be laid floating over the damp proof membrane.



• On the second Nexxa panel, remove the first outer row of larger castellations along its length.



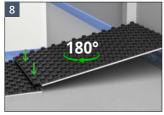
 Interlock the Nexxa panels as shown, overlapping the smaller castellations with the larger.



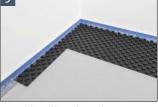
- To complete the first run of Nexxa panels, rotate the last Nexxa panel 180° and place against the wall. Measure the distance from the wall to the first pipe channel on the preceding Nexxa panel.
- Cut the Nexxa panel to size with the utility knife.



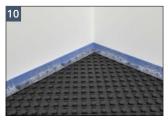
• Remove the castellations from cut Nexxa panel along its length.



 Rotate the cut panel 180° and interlock with the preceding Nexxa panel.



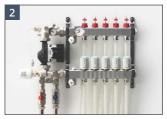
• Use the off-cut from the previous panel to begin the second run of Nexxa panels.



 Once the room has been in-filled with the Nexxa panels fold the polyethylene skirt over the Nexxa panels and tape into position. If the project has been supplied with a set of working drawings, follow the provided pipe layout. Ensure each circuits details are recorded in the commissioning log provided in the Warmup manifolds installation manual.



 Plan the circuit layout ensuring that the flow and return pipes can connect from the manifold to their respective heated area without crossing each other.



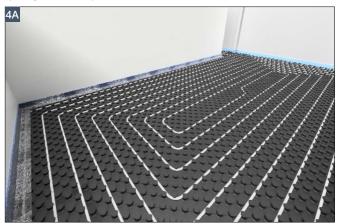
 Ensure there is excess flow and return pipe at the manifold location which can be cut later after the pipe has been laid.



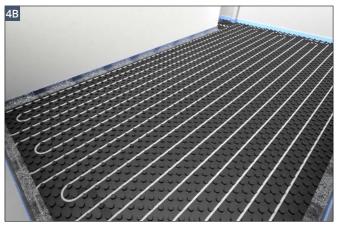
- Attach pipe bend supports to hold the pipe at a 90° angle as it enters the floor. Position the support so that the pipe rises straight to the manifold.
- i

Feed pipes normally go through doorways but to minimise congestion, pipes can be fed through walls. Ensure holes drilled in the wall are below floor level and the pipe is protected with conduit.

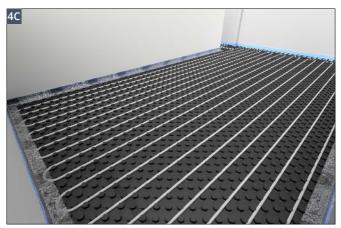
Beginning from the manifold location, following the projects working drawings, begin laying the pipe, maintaining a gap of half the design pipe spacing around the perimeter of the room.



- It is recommended to use the **spiral** pattern to achieve an even surface temperature and high heat output.
- The first loop should be laid around the perimeter of the room, then working inwards towards the centre at double the intended pipe spacings.
- Once you reach the centre, work back out, completing the spiral at the intended pipe spacing.

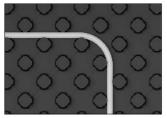


- Where it is not practical to use the spiral pattern, a **double meander** pattern can be used, providing a more even surface temperature and higher heat output than a single meander pattern.
- The pipe should be laid referring to the working drawings, alternating the first run between 3 times and 1 times the design pipe spacing, before working back to the manifold location.

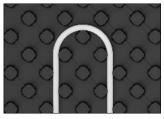


 If using the single meander method, ensure the pipe installed against the external walls is supplied with the hottest (supply) water. Meander up and down the floor area at your designed pipe spacing and feed the pipe back towards the manifold.

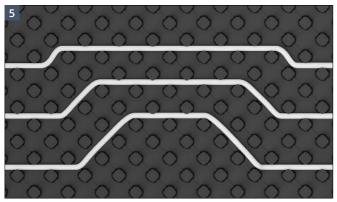
Pipe bend examples



90° bend



180° bend



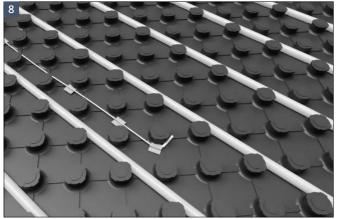
 When negotiating obstacles it may be necessary to temporarily tighten pipe spacings.



- Measure and cut the pipe so that it reaches both the flow and return ports on the manifold.
- Refer to the manifold manual for detailed information on mounting, pressure testing and commissioning.



 Remove a section of Nexxa from underneath the manifold so that the pipe conduit or lagging can be installed over the service pipes as this will insulate the pipes and alleviate any hotspots.



- Install the sensor at least 300 mm into the heated area it will be controlling. It should be located centrally between the closest parallel runs of pipe and not in an area influenced by other heat sources.
- The sensor can be secured to the Nexxa panel with tabs of tape.







Before installing any screed, floor finish, adhesives or glues over the system, the installation requirements of each must be checked to ensure compatibility with underfloor heating.



Underfloor heating performs the most efficiently with conductive, low resistance floor finishes such as stone and tiles.

Table 1 - Screed types and minimum thicknesses

Screed Type	Minimum thickness (mm)	Standard
Traditional cementitious sand/cement	75 (65)	BS 8204-1
Traditional calcium sulfate	40	CIRIA Report 184
Pumpable self-smoothing calcium sulfate	40 (35)	BS 8204-7
Pumpable self-smoothing cementitious	40 (35)	BS 8204-7

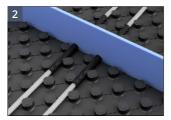
Table 1 shows different screed materials used and minimum thicknesses required for use with underfloor heating systems. Domestic measurements are in brackets. This table is for guidance only, screed layers used over Warmup Nexxa must be chosen and installed in line with the latest edition of building regulations and standards.



 Heated screeds will expand and contract slightly during use therefore expansion joints may also be required. As per: ISO 11855-5, an expansion joint plan (including type and place of joint) shall be drawn up by the building planner.

A joint shall be applied above a building joint. The floor screed shall be separate from rising elements (border joints, e.g. walls doorways etc.).

The determination of joint width, joint distance and joint areas depends on type of binder, floor covering geometry of the area, use of area and temperature change.



• Any pipe crossing an expansion joint should be protected with a 300mm conduit. 150mm either side of the joint.



 Before the screed is laid the pipe should be pressure tested and then held at 3 bar whilst screeding. This will enable any leaks to be detected immediately. Please refer to the manifold manual for guidance.

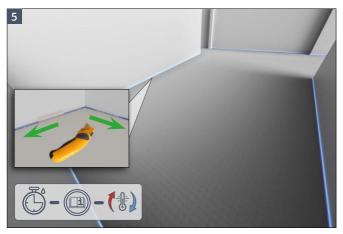


• Apply the screed layer referring to the screed manufacturers instructions for mixing, drying and curing information.



Curing times for sand/cement screeds are typically 21 days. DO NOT switch on the heater until the screed has fully cured.

The heating should not be turned on until the screed has fully cured. Once cured the heater can be switched on and the floor brought up to 20-25° C. This shall be maintained for at least 3 days after which the maximum design temperature shall be set and maintained for at least a further 4 days.



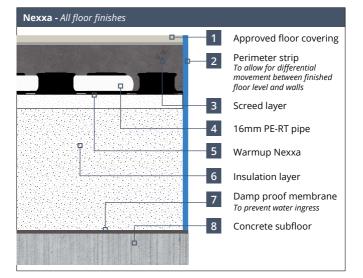
- Once the screed has cured a heat cycle will need to be conducted before your floor covering is laid. Please see the manifold manual for instructions on the initial heat cycle.
- DO NOT install the floor covering until the floor has cooled down.
- The perimeter strip should finish just proud of the screed layer but can be trimmed back flush with a utility knife if required.

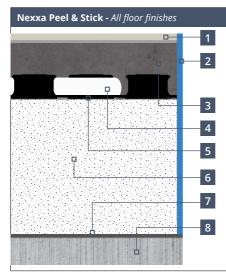


Before installing any floor finish, adhesive or underlay over the screed layer, the installation requirements of each must be checked to ensure compatibility with underfloor heating.

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Underfloor heating performs the most efficiently with conductive, low resistance floor finishes such as stone and tiles. The maximum thermal resistance of the floor should not exceed 0.15 [m²K/W].





Approved floor covering

Perimeter strip To allow for differential movement between finished floor level and walls

Screed layer

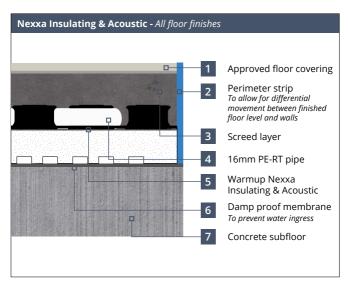
16mm PE-RT pipe

Warmup Nexxa Peel & Stick

Insulation layer

Damp proof membrane To prevent water ingress

Concrete subfloor

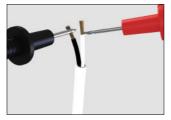


i Lay the floor covering adhering to the flooring manufacturers instructions.

Ensure any floor coverings, underlays and adhesives used are suitable for use with underfloor heating at the intended operational temperatures and conditions.



Sensor resistance test



- Ensure that the sensor is tested before the screed layer has been laid. Warmup thermostats typically use a 10 kΩ sensor.
 Please to refer to the thermostat manual for further details.
- The expected resistance depending on temperature is listed below.

Sensor resistance by temperature - NTC10K								
Temperature	Resistance	Temperature	Resistance					
0 °C	32.5 kΩ	16 °C	15.0 kΩ					
2 °C	29.4 kΩ	18 °C	13.7 kΩ					
4 °C	26.6 kΩ	20 °C	12.5 kΩ					
6 °C	24.1 kΩ	22 °C	11.4 kΩ					
8 °C	21.9 kΩ	24 °C	10.5 kΩ					
10 °C	19.9 kΩ	26 °C	9.6 kΩ					
12 °C	18.1 kΩ	28 °C	8.8 kΩ					
14 °C	16.5 kΩ	30 °C	8.1 kΩ					

ISSUE 1 - Pipes releasing from castellations					
PROBLEM	SOLUTION				
Castellations are damaged	Place in alternative castellations				
Castellations are damaged	Use 60mm pipe staples to secure the pipe in place				
Subfloor not level resulting in the panels deflecting downwards under traffic	Ensure the subfloor is to a SR2 standard				
ISSUE 2 - Panels lifting from corners					
PROBLEM	SOLUTION				
Tension from pipes is causing the panels to lift	Use 60mm pipe staples to secure the panels in place				
ISSUE 3 - Running out of pipe/excess pipe leftover					
PROBLEM	SOLUTION				
PROBLEM When laying the pipe, incorrect pipe	SOLUTION The pipe will have to be installed again at the correct spacing as per your design layout.				
PROBLEM When laying the pipe, incorrect pipe spacing has been used.	SOLUTION The pipe will have to be installed again at the correct spacing as per your design layout.				
PROBLEM When laying the pipe, incorrect pipe spacing has been used. ISSUE 4 - Floor overheating at flow and	SOLUTION The pipe will have to be installed again at the correct spacing as per your design layout. returns to manifold				
PROBLEM When laying the pipe, incorrect pipe spacing has been used. ISSUE 4 - Floor overheating at flow and PROBLEM As the pipes reach the manifold they are tightly packed together which will	SOLUTION The pipe will have to be installed again at the correct spacing as per your design layout. returns to manifold SOLUTION The pipes will need to be insulated using conduit or pipe lagging.				
PROBLEM When laying the pipe, incorrect pipe spacing has been used. ISSUE 4 - Floor overheating at flow and PROBLEM As the pipes reach the manifold they are tightly packed together which will give a higher heat output.	SOLUTION The pipe will have to be installed again at the correct spacing as per your design layout. returns to manifold SOLUTION The pipes will need to be insulated using conduit or pipe lagging.				

	Nexxa	
Product code	WHS-TL-ALU10	
Dimensions including overlap	1450 x 850 mm	
Insulation dimensions	1400 x 800 x 11 mm	
Usable area	1.12 m ²	
Castellation height	21 mm	
Overall height	32 mm	
Composition	Polystyrene with EPS insulation backing	
Pipe diameter	14-17mm	
Castellation spacing	50 mm	
Diagonal spacing	71 mm	
Thermal conductivity	0.035 W/mK	
Thermal resistance R _D	0.314 m² K / W	
Impact sound reduction $\Delta L_{_{W,R}}$		
Compressive stress CS (10)	200 kPa	
Max. traffic load	60 kPa	
Reaction to Fire	E	
Colour	Black/anthracite	-

[•] 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 70kg/m².

Nexxa Peel & Stick	Nexxa Insulating & Acoustic
NEX-P&S	NEX-30
1450 x 850 mm	1450 x 850 mm
-	1400 x 800 x 30 mm
1.12 m ²	1.12 m²
21 mm	21 mm
21 mm	51 mm
Polystyrene with self adhesive backing	Polystyrene with EPS insulation backing
14-17mm	14-17mm
50 mm	50 mm
71 mm	71 mm
-	0.04 W/mK
-	0.75 m² K / W
-	28dB*
-	-
-	5 kPa
-	E

Black/anthracite

Black/anthracite

k [⊭] Value - W/m²K													
Resistance of Floor Covering, tog	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00
Pipe Centres	Warmup Nexxa Panels												
100mm	6.08	5.21	4.56	4.05	3.65	3.32	3.04	2.81	2.61	2.43	2.28	2.15	2.03
150mm	5.19	4.53	4.03	3.62	3.29	3.02	2.78	2.58	2.41	2.26	2.13	2.01	1.90
200mm	4.47	3.97	3.57	3.25	2.98	2.75	2.55	2.38	2.23	2.10	1.99	1.88	1.79
250mm	3.87	3.49	3.18	2.92	2.70	2.51	2.34	2.20	2.07	1.96	1.85	1.76	1.68
300mm	3.37	3.08	2.84	2.63	2.45	2.29	2.15	2.03	1.92	1.82	1.73	1.65	1.58

q = Specific Heat Output, W/m²

kн = System Performance Factor, W/m²K

T_{water} = Mean water Temperature

T_{air} = Room Air Temperature

Using the system k_{H} value to calculate the system heat output:

$q = k_H x (T_{water} - T_{air})$

Example:

The heat output through an 18 mm thick, \approx 1.25 tog timber floor, over Warmup Nexxa, fitted with pipe at 200 mm centres, in a 21°C room heated with 40°C water is;

q = 2.75 x (40 - 21) = 2.75 x 19 = 52.25 W/m²

Alternatively, using the system k_H value to calculate the required water temperature, knowing the required heat output:

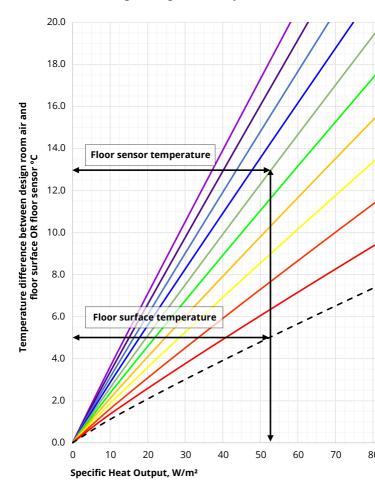
 $T_{water} = (q / k_H) + T_{air}$

Example:

The water temperature required to produce a heat output of 55 W/m², through a 3 mm thick \approx 0.25 tog LVT floor finish, over Warmup Nexxa, fitted with pipe at 200 mm centres, in a 22°C room is;

T_{water} = (55 /3.97) + 22 = 13 + 22 = 36°C

Notes

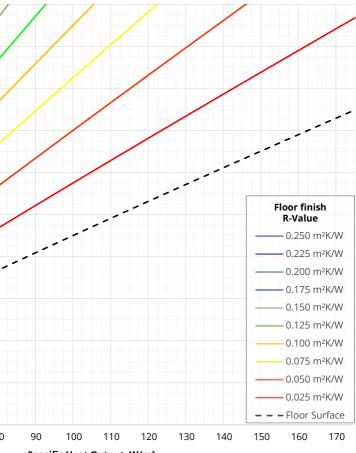


Floor sensor setting for target heat output

The room with the highest water temperature requirement sets the design water temperature for the whole system based on the calculations from the previous section.

Using the graph above it is possible to limit the specific heat output to the required value.

The example above shows a design room air temperature of 20°C and design heat output of 52.5W/m². Based on a 0.150 m²K/W (1.5 tog) floor finish the floor sensor should be set to 33°C (20°C room air + 13°C Δ T) to resulting in floor surface temperature of 25°C (20°C room air + 5°C Δ T).



Specific Heat Output, W/m²

i

The design floor surface temperature difference should not be more than 9 °C in occupied areas, 15 °C in unoccupied areas.



Heat output is limited by the floor finish resistance combined with the maximum probe setting of 40 $^{\circ}\mathrm{C}.$



Temperature limits of the floor finish or its adhesive may adversely limit the design heat output.

Warmup plc limited warranty -Hydronic floor heating pipe



Registration can be completed online at **www.warmup.co.uk**. In the event of a claim, proof of purchase is required in the form of an invoice or receipt.

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 warrantied 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. The Lifetime warranty only applies if the product is registered with Warmup within 30 days after purchase and registered online at www.warmup.co.uk. Registration is confirmed only when confirmation of receipt is forwarded by Warmup plc

Warranty duration

 The PE-RT 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.

Notification of a suspected failure must be received in writing by Warmup within thirty (30) days of the suspected failure. 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 lifetime warranty applies to the pipes(s) if they:

- 1. Are registered with Warmup within 30 days after purchase.
- 2. Have not operated at a pressure of greater than 8 Bar.
- 3. Have not operated at a temperature of greater than 60°C.
- 4. Are filled with treated water subtitle for use with PE pipes.
- 5. Are installed according to all applicable building code requirements.
- 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.
- 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.
- 8. Do not show evidence of accidental damage, misuse, lack of care, tampering, or repair or modification without the prior written approval of Warmup plc.



SafetyNet[™] Installation Guidelines: If you make a mistake and damage the pipe before covering the pipe with screed, levelling compound or floor covering, return the damaged pipe to Warmup within in 30 days along with your original dated sales receipt. WARMUP WILL REPLACE THE COIL OF PIPE (MAXIMUM 1 COIL OF PIPE PER ORDER) WITH ANOTHER COIL OF THE SAME MAKE AND MODEL - FREE.

Register your Warmup® warranty online at www.warmup.co.uk

- (i) Pipes repaired by Warmup carry a 5 year warranty only. Under no circumstances is Warmup responsible for the repair or replacement of any tiles / floor covering which may be removed or damaged in order to affect the repair.
- (ii) The SafetyNet[™] Installation Guarantee is null and void once the pipe is covered with a screed, levelling compound, adhesive or floor deck.
- (iii) Damage to the pipe that occurs after covering, such as lifting a damaged tile once adhesive has set, or subfloor movement causing floor damage, is not covered by the SafetyNet[™] Guarantee.



Warmup plc

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Please scan the QR code to provide feedback on your installation



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