

# Nexxa Panel System

## Overview

The Warmup Nexxa Panel system enables the most precise installation of underfloor heating within a floating screeded floor. Regular castellations grip the pipe preventing both horizontal and vertical movement and allowing any future floor fixings to be made with confidence.

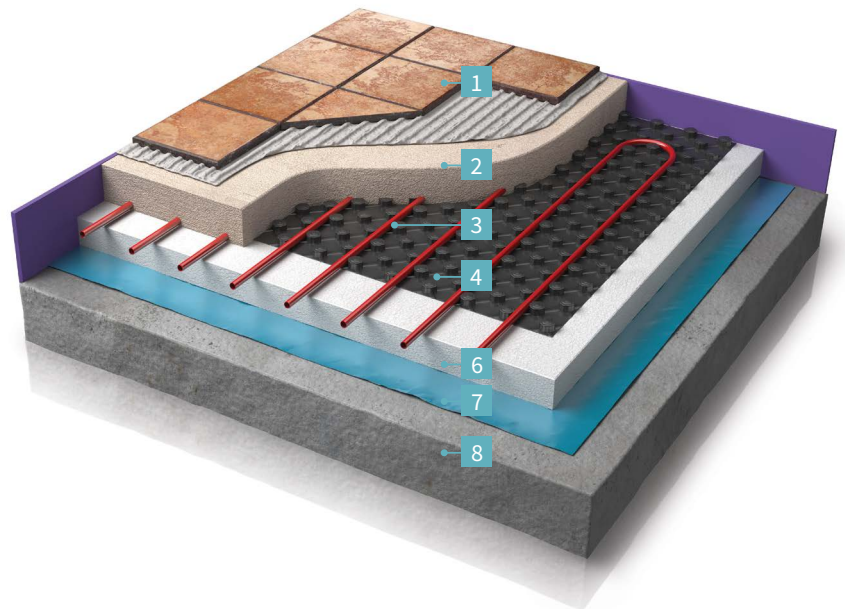
Because the Nexxa Panels regularly constrain the pipe the additional 5mm of screed that is normally required to ensure suitable screed coverage over the pipe is no longer required. This will affect all screeds but for calcium sulphate screeds which requires a minimum cover of 25mm

over the pipework, this reduces the screed depth by 10%. The castellations themselves further reduce the volume of screed required taking the total reduction to almost 20% using the previous example.

Reducing the volume of screed not only reduces the structural load on the building and the cost of the screed it also creates a more responsive heating systems reducing an areas heat loss outside of its utilised hours.

### FLOOR CONSTRUCTION

- 1 Floor finish
- 2 65-75mm Sand & Cement Screed or proprietary screed
- 3 Warmup 16mm Pipework
- 4 Warmup Nexxa Panel
- 5 Rigid Insulation
- 6 DPM
- 7 Subfloor



**Hydronic**  
Heating System

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www.warmup.co.uk

**Warmup**

The world's best-selling floor heating brand™

# Features

- The Nexxa panel is just 30mm high, including the 20mm castellation, making it ideal for refurbishments or new builds where a low build up is required
- Panels are interlocked which removes the need for a separate DPM to protect the insulation during the application and drying of the screed
- Laminated backing of 10mm EPS insulation provides added strength to the panels and ensures a rapid response to heating demand
- Retains pipework prior to screeding
- Self retaining system. No clips required
- Lifetime Warranty when PEX-A pipe is used / 50yr Warranty for PE-RT or AL/PE-RT pipes

**SAFETY Net™**  
Installation-Guarantee

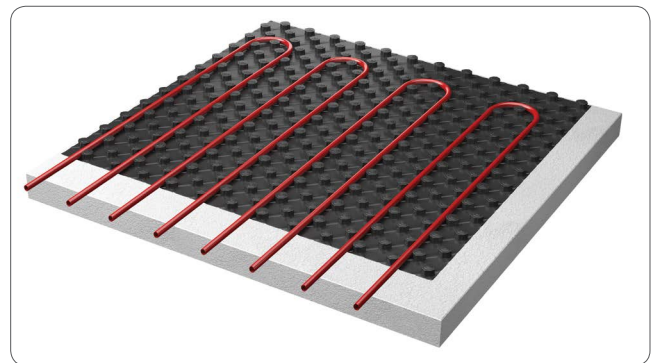


# WARMUP COMPONENTS

## Nexxa Panels

The Warmup Nexxa Panel is a polystyrene rigid foam (EPS) thermal insulation board with an interlocking vacuum formed sheet of plastic, incorporating pipe-locating castles on top.

The edges of the system are overlapped by 75mm, inter-locking them to form a continuous layer. It is used primarily where there are floor build-up issues to deal with. It can substantially reduce the overall build-up of the floor structure.



### NEXXA PANELS - TECHNICAL SPECIFICATIONS

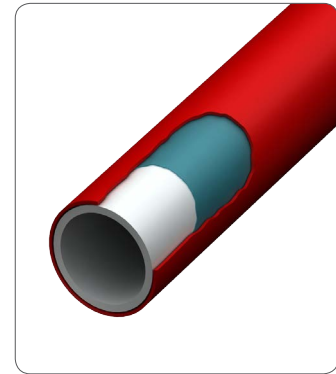
CODE	DIMENSIONS	THICKNESS	COMPRESSIVE STRENGTH @10% (kPa)	THERMAL CONDUCTIVITY @ 10°C	R-VALUE (m <sup>2</sup> K/W)	FIRE CLASS EN 13501-1
WHS-TL-ALU10	1400 x 800mm	11mm	75kPa	0.035	0.31	E

**Warmup Insulation Boards have zero Ozone Depletion Potential (ODP) and a Global Warming Potential (GWP) of less than 5**

# Pipework

The Warmup PEX-A pipe is formed as a single extrusion with an adhesive layer and EVOH oxygen barrier. The EVOH layer restricts the ingress of oxygen into the heating system, reducing oxidation of critical components in the primary system and extending their service life.

The minimum 70% cross linking within the PE material provides superior mechanical properties to the pipe, with a maximum working temperature and pressure of 95°C and 6 bar respectively. The PEX-A pipe has a high thermal conductivity of 0.41W/mK, substantially greater than an equivalent polybutylene pipe at 0.22W/mK. This enables our systems to emit between 3% and 6% more heat from the same water temperature as equivalent systems using PB pipe.



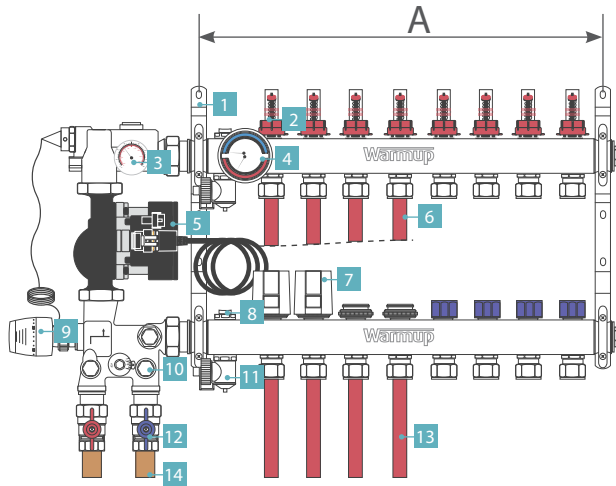
## PEX-A PIPE - TECHNICAL SPECIFICATIONS

CODE	DIMENSIONS	MAX. WORKING TEMPERATURE	MAX. OPERATING PRESSURE	COMPOSITION	THERMAL CONDUCTIVITY	WATER CAPACITY
WHS-P-PEXA-25	PEX-A 16mm x 2mm x 25m	95°C	6 Bar	PEX-A 70% cross linked	0.41 W/mK	16mm pipe - 0.113 l/m
WHS-P-PEXA-50	PEX-A 16mm x 2mm x 50m					
WHS-P-PEXA-60	PEX-A 16mm x 2mm x 60m					
WHS-P-PEXA-70	PEX-A 16mm x 2mm x 70m					
WHS-P-PEXA-80	PEX-A 16mm x 2mm x 80m					
WHS-P-PEXA-90	PEX-A 16mm x 2mm x 90m					
WHS-P-PEXA-100	PEX-A 16mm x 2mm x 100m					
WHS-P-PEXA-110	PEX-A 16mm x 2mm x 110m					
WHS-P-PEXA-120	PEX-A 16mm x 2mm x 120m					
WHS-P-PEXA-200	PEX-A 16mm x 2mm x 200m					
WHS-P-PEXA-300	PEX-A 16mm x 2mm x 300m					
WHS-P-PEXA-500	PEX-A 16mm x 2mm x 500m					

**NOTE:** Range of PE-RT & PE-RT/AL/PE-RT pipes also available. Please contact Warmup on 0845 034 8270 for further information

# Manifold

The Warmup Stainless Steel Manifold range provides flexible zoning and water regulation for 2 to 12 underfloor heating circuits. Supplied complete with Taconova TopMeters, Fill/Drain Valves, Air Vents and a Thermomanometer, it is equipped with all the features needed to commission an underfloor heating system quickly and confidently.



## MANIFOLD - TECHNICAL SPECIFICATIONS

MATERIAL	304 Stainless Steel
PORTS AVAILABLE	2 - 12
TEMPERATURE RANGE	-5°C to +60°C
MAX OPERATING PRESSURE	6 Bar
MAX TEST PRESSURE	10 Bar
ADJUSTMENT RANGE	0 - 5 l/min
MEASURING ACCURACY	±10% (of highest nominal value)
MANIFOLD ARM DIMENSIONS	40 mm X 40 mm
PIPE FITTING CENTRES	50 mm / 55 mm
PIPE FITTING DIAMETERS	G-1/2" (20X1.5)

## MANIFOLD & MIXING UNIT

- |                            |                            |
|----------------------------|----------------------------|
| 1 Mounting Bracket         | 8 Manual Air Vent          |
| 2 Flow Gauge               | 9 Capillary Thermostat     |
| 3 Thermometer - secondary  | 10 Mixing Unit             |
| 4 Thermomanometer          | 11 Fill/Drain Valve        |
| 5 Grundfos UPM3 Circulator | 12 Primary Isolation Valve |
| 6 Secondary - Flow         | 13 Secondary - Return      |
| 7 Electrothermic Actuator  | 14 Primary pipework        |

# Thermostat



## 4iE® SMART WIFI THERMOSTAT

For Central Heating and Underfloor Heating Systems

Connected to the internet by WiFi, it can be controlled from a smart phone, tablet or computer as well as its own touchscreen interface. It learns how homeowners use their heating and the unique way each zone reacts. It uses this knowledge to suggest ways to save energy, such as what temperature should be set when the area is not in use and when the heating can be turned off earlier with no noticeable impact on comfort.

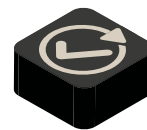
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**Easy to use**  
Simple and secure set up using WiFi, with 24/7 technical support.