

# Contura System

## Overview

The Warmup Contura Floating Floor System insulates and heats dry construction floating floors. Floor finishes can be laid over the Contura System immediately after installation unlike screeded floors which require weeks for the screed to cure and then dry out. Replacing a traditional screed with thinner and lighter dry flooring panels significantly reduces the heated floor mass.

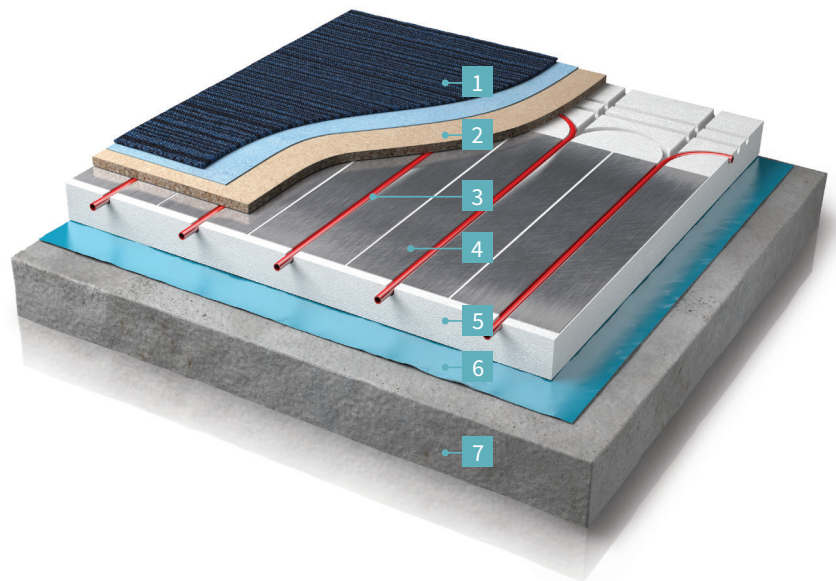
Consequently the Contura System responds faster to heating demands than traditional screed systems. This faster warm up and cool down time is recognised within

SAP with the calculated energy usage reducing as a result. The reduced system mass also has other benefits especially for multistorey developments. The reduction in weight associated with moving from a screeded floor to a dry floor can have a significant impact on the structural requirements of a building leading to cheaper foundations and structural elements throughout the project.

The Contura Boards are simply laid over a flat and level subfloor, the diffusion plates and pipe are then fitted into place.

### FLOOR CONSTRUCTION

- 1 Floor finish
- 2 Floating Floor Deck
- 3 Warmup 16mm Pipework
- 4 Warmup Contura Diffusion Plate
- 5 Warmup Contura Panel
- 6 DPM
- 7 Subfloor



**Hydronic**  
Heating System

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**Warmup**<sup>®</sup>

The world's best-selling floor heating brand™

# Features

- Contura System responds faster to heating demands than traditional screeded systems. This faster warm up and cool down time is recognised by SAP
- The Contura system is a completely dry system with no screeding required so there is no waiting time for a screed to dry
- Comprehensive choice of board thicknesses available to match individual requirements
- Promotes fast heat-up response times
- Lifetime Warranty when PEX-A pipe is used / 50yr Warranty for PE-RT or AL/PE-RT pipes

**SAFETY Net™**  
Installation-Guarantee



## WARMUP COMPONENTS

### Contura Panels

Warmup Contura EPS Insulation is a routed EPS insulation board for use in conjunction with Warmup Diffusion Plates. The insulation boards are provided in 2400 x 1200mm sheets and come in 30, 40, 50, 60, 70, 80, 90 and 100mm thicknesses.

This type of insulation is primarily used in new build on upper floors where insulation levels are higher which will lower heat requirements and can be installed under almost any type of floor finish.

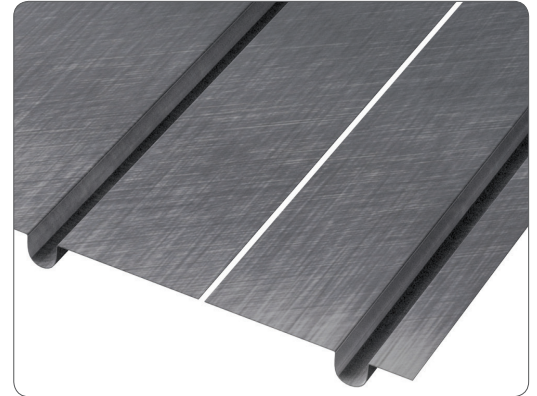
#### CONTURA PANELS - TECHNICAL SPECIFICATIONS

CODE	DIMENSIONS	THICKNESS	COMPRESSIVE STRENGTH @10% (kPa)	THERMAL CONDUCTIVITY @ 10°C	R-VALUE (m <sup>2</sup> K/W)	FIRE CLASS EN 13501
WHS-CO-P2030	1.2m x 1.2m	30mm	150	0.035	0.85	F
WHS-CO-P2040	1.2m x 1.2m	40mm	150	0.035	1.14	F
WHS-CO-P2050	1.2m x 1.2m	50mm	150	0.035	1.43	F
WHS-CO-P2060	1.2m x 1.2m	60mm	150	0.035	1.71	F
WHS-CO-P2070	1.2m x 1.2m	70mm	150	0.035	2.00	F
WHS-CO-P2080	1.2m x 1.2m	80mm	150	0.035	2.29	F
WHS-CO-P2090	1.2m x 1.2m	90mm	150	0.035	2.57	F
WHS-CO-P2100	1.2m x 1.2m	100mm	150	0.035	2.85	F

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

# Diffusion Plates

The Warmup Diffusion Plates are press-formed heat-diffusing aluminium plates. They are lightweight and easy to install, creating a responsive, efficient underfloor heating system with an even heat distribution.



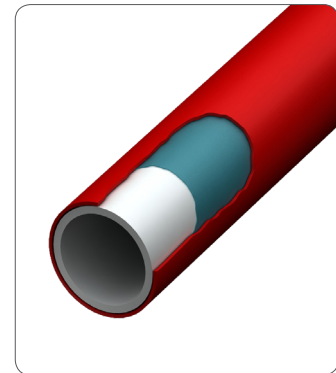
## DIFFUSION PLATES - TECHNICAL SPECIFICATIONS

CODE	DIMENSIONS	THICKNESS	PIPE SIZE
WHS-TE-ALUDP4 (Single groove plate)	190 x 1000mm	0.6mm	16mm pipe
WHS-TE-ALUDP5 (Single groove plate)	190 x 1000mm	0.7mm	16mm pipe

# 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.



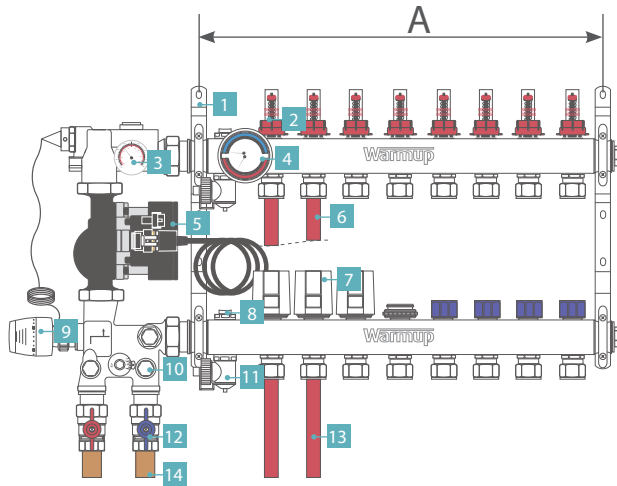
## PEX-A PIPE - TECHNICAL SPECIFICATIONS

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.

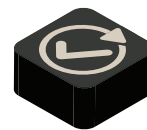
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Simple and secure set up using WiFi, with 24/7 technical support.