

**ambiente<sup>®</sup>**

more than underfloor

# Installation Guide

**AmbiClip Systems**

Customer:

Project:

Project Reference:

Date:



# AMBICLIP INSTALLATION GUIDE

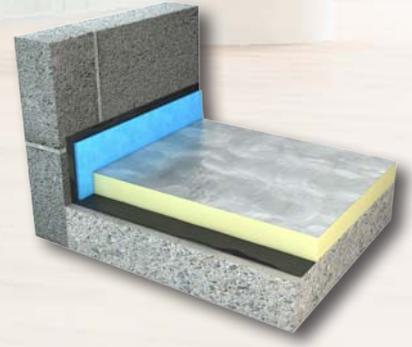
## AMBICLIP FLOOR LAYING INSTRUCTIONS



- 1 Set up pipe decoiler and all necessary tools and make sure working area is clear and clean.



- 2 Lay the damp proof membrane over entire floor area, overlapping at least 150mm up walls and where dpm sheets meet.

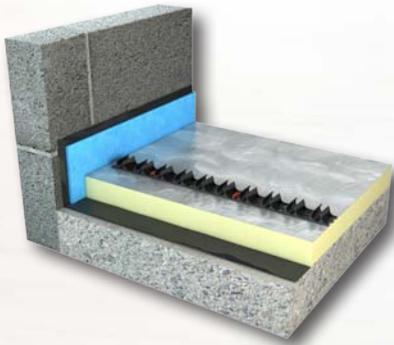


- 3 Roll out border edge insulation and lay floor insulation – this will help to hold the border edge in place until screeding. If the floor insulation is already in place, border edging can be stapled to the edges of the floor insulation using cliprail clips or a staple gun to fix to the wall. If required, lay polythene sheets across screeded area overlapping at least 150mm up walls and where sheets meet.

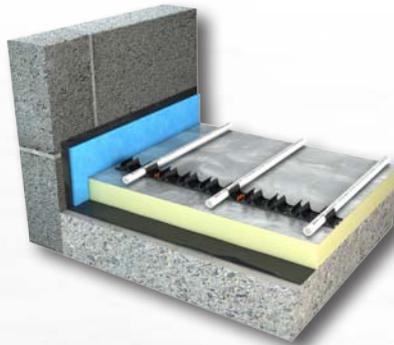
## SCREED AND INSULATION

Normally the specification of the screed and insulation will be stated by the architect, if you need any assistance or recommendations, please call one of our technical team today on **01707 64 91 18**.

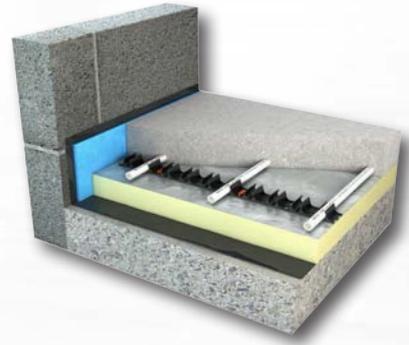




**4** Lay cliprail lengths at 1m-1.2m intervals and as detailed on pipe layout instructions. Use the cliprail clips to secure the cliprail to the insulation (two or three clips per rail).



**5** Fit the Ambiente pipework as per system designs and pipe laying instructions (see overleaf).



**6** Screed the floor once the installation of pipework is complete and the system has been pressure tested.

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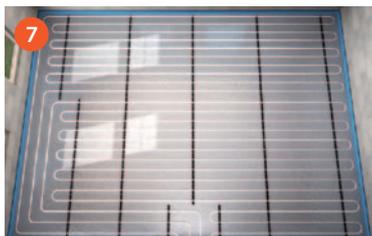
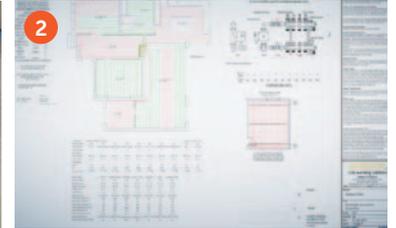
For any installation questions speak to our installation team today on **01707 64 91 18** or email [info@ambienteufh.co.uk](mailto:info@ambienteufh.co.uk).



For any information regarding our products and support call our highly trained sales team today on **01707 64 91 18**.

# INSTALLATION METHOD

- 1 Lay the cliprail lengths at approximately one metre intervals and at right angles to the direction the pipe is to be laid. Our cliprail has an adhesive backing strip and can also be secured further using cliprail clips provided. Lengths of cliprail can be clipped together end-to-end.
- 2 Check the system plans to see the number and length of each loop required. Note: Ambiente pipe is marked every metre to help you calculate loop lengths.
- 3 Starting on one side of the manifold, connect to the manifold flow bar. Make a note of which zone the loop serves on the manifold tag supplied.
- 4 Lay the pipe out, navigating the most efficient route between the manifold and the zone. Start laying the pipe into the cliprail, as per the system designs.
- 5 Individual cliprail clips can be used to hold the pipe to the insulation in between the cliprails and on tight bends.
- 6 On completion of the loop, follow the same route back to the manifold and connect to the return bar (bottom bar with blue caps), making a clear note of the actual loop length installed on the manifold tag.
- 7 Follow the same procedure for all loops until the area is evenly covered with pipe.
- 8 Once all loops are installed and connected to the manifold, the system can be pressure tested.

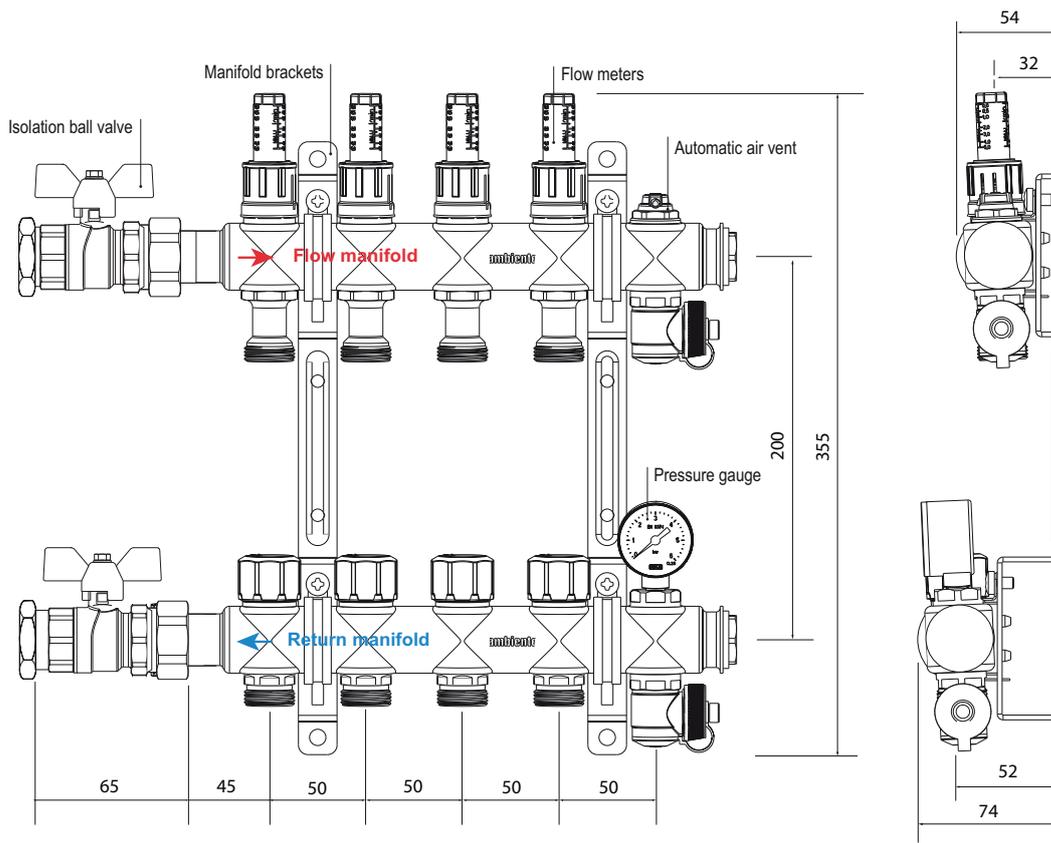


# MANIFOLD POSITIONING

Ambiente manifolds are supplied ready assembled and simply need mounting on brackets prior to installation.

Note that the two manifold bars are offset so that the pipes can pass behind the lower bar for connection to the top bar – we recommend using the top bar as the flow and the bottom bar as the return. The manifold comes left-handed as standard, but can be changed, see opposite for 'how to change the handing of Ambiente manifolds'.

Manifolds should be positioned where they are easily accessible to allow for future servicing and commissioning. We recommend allowing at least 200mm between the finished floor level and the bottom of the manifold, with 75mm clearance above and at least 50mm at either side.



Number of ports	2	3	4	5	6	7	8	9	10	11	12
Manifold Length (mm)	192	242	292	342	392	442	492	542	592	642	692

# COMMISSIONING THE SYSTEM

## STEP BY STEP CHECKLIST

### Filling and flushing the system

Sequence	Checklist	Completed
1	Close the isolating ball valves that are connected to the manifold on both bars.	<input type="checkbox"/>
2	Isolate all zones by screwing down the blue caps on the bottom (return) bar and the flow meters on the top (flow) bar.	<input type="checkbox"/>
3	Open the first flow meter (start furthest away from the filling valve) on the top (flow) bar (use the red collar to turn the black section fully anti-clockwise, do not use grips – hand tight only). Ensure that all other flow meters are closed, except the loop that you are flushing.	<input type="checkbox"/>
4	Remove the black plastic blanking cap from the filling valve on the top (flow) bar and fit the hose connection/hose which should be connected to the mains water supply. Open the filling valve using the key on the reverse of the drain valve cap.	<input type="checkbox"/>
5	Fix a suitable hose to the drain valve on the bottom bar.	<input type="checkbox"/>
6	Fully loosen the blue protection cap on the bottom bar on the first zone to be filled.	<input type="checkbox"/>
7	Open the tap on the mains water supply and open the drain valve on the bottom bar using the key on the reverse of the blanking cap.	<input type="checkbox"/>
8	Run water through the loop until air is removed from the system, closing down the blue caps on each loop as it is purged.	<input type="checkbox"/>
9	This can now be repeated for each zone by opening the next zone, closing the flushed zone and repeating steps 3-8.	<input type="checkbox"/>
10	At this point the system can be pressure tested if required by closing the drain valve and unscrewing all the blue protection caps – the pressure should rise slowly – allow it to rise to 4 bar and then close the filling valve and close off the mains water. This should be left for 24 hours to check for any significant drops in pressure.	<input type="checkbox"/>

### Pressure testing using an air compressor

Sequence	Checklist	Completed
1	Close the isolating ball valves that are connected to the manifold on both bars.	<input type="checkbox"/>
2	Open all zones by unscrewing the blue caps on the bottom (return) bar.	<input type="checkbox"/>
3	Open all flow meters on the top (flow) bar – use the red collar to turn the black section fully anti-clockwise.	<input type="checkbox"/>
4	Open the filling valve using the key on the front of the blanking cap and connect the compressor hose up to it. Make sure the drain valve is closed.	<input type="checkbox"/>
5	Turn on the air compressor and allow the pressure to rise to 4 bar. Once the desired level has been reached, close the filling valve using the key on the blanking cap. This should be left for 24hrs to check for any significant drops in pressure.	<input type="checkbox"/>

### Change the handing of Ambiente manifolds

Sequence	Checklist	Completed
1	Reverse the handing of the two manifold bars on their brackets.	<input type="checkbox"/>
2	Remove the mixing valve from the base of the pumpset by undoing the nut that connects the two together.	<input type="checkbox"/>
3	Unscrew the blanking cap from the base of the mixing valve. Note: this has a left-handed thread.	<input type="checkbox"/>
4	Then unscrew the pump connection from the top of the mixing valve. Again, this has a left-handed thread.	<input type="checkbox"/>
5	Rotate the mixing valve through 180 degrees and swap the blanking cap and pump connection around.	<input type="checkbox"/>
6	Remount the mixing valve onto the pumpset, making sure you use the rubber washers provided.	<input type="checkbox"/>

# PRESSURE TEST CERTIFICATE

## Site details

Site name

Date

Address

Reference

Technician

Floor level

Pipe reference

Manifold reference

## Please tick the appropriate boxes

Installation

Re-pressurise

Repair

Test method Hydraulic (Water)

Period of test

Min 30 mins

Test method Co<sup>2</sup> (air)

Test pressure

Min 4 bar

Sufficient room to attach pumpset (minimum 250mm required)

Yes

N/A

Has the manifold label been fitted?

## Description

Yes

No

Comments

System left drained

System left full of water

System left under pressure

Signature of tester

Print name

Date

Signature of witness

Print name

Date

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