

ambiente[®]

more than underfloor

Installation Guide

AmbiLowboard (SRB)

Customer:

Project:

Project Reference:

Date:



AMBILOWBOARD (SRB) INSTALLATION GUIDE

AMBILOWBOARD (SRB) SERIES

- + Slimline 18mm board
- + Versatile return and straight sections
- + High compressive strength
- + Flexible, pre-grooved screedboard
- + Suitable for new build and refurbishments

AmbiLowboard (SRB) is a high density, flexible cement based board solution for laying over a flat subfloor. It is particularly recommended for tiled floor areas because the high compression rating of the board and lap joint detail permits tiles to be laid directly over the top when using a decoupling matting. We recommend priming the boards before laying floor coverings in all cases.

The system uses an Ambiente five layer, 12mm PE-RT with EVOH oxygen barrier pipe. The pre-grooved channels provide installation flexibility as just two board designs can be used for all pipe run combinations. The panels can also be easily routed where required for added flexibility.

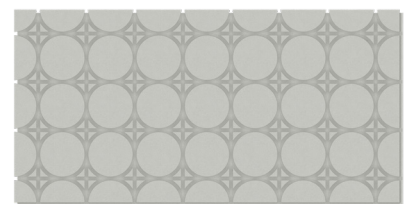
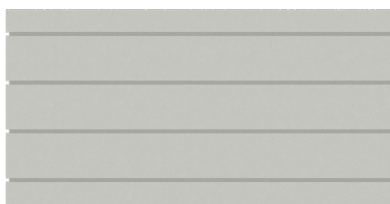
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Data sheets can be downloaded directly from our website.

www.ambienteufh.co.uk

AMBILOWBOARD (SRB) SX18 AMBILOWBOARD (SRB) RX18



Easily adaptable with a router



High compressive strength



Versatile pipe layout



Lap joint for added strength

TECHNICAL DATA

Technical

	RX18 (Return)	SX18 (Straight)
Panel size	1200 x 600 x 18mm	1200 x 600 x 18mm
Edge Type	Lapjoint 9/9/10mm	Lapjoint 9/9/10mm
Weight (per board)	16kg	17kg
Properties		
Density	1150±50 (kg/m ³)	1150±50 (kg/m ³)
Thermal conductivity	≤0,32 W/(mK)	≤0,32 W/(mK)
Minimum compression strength	5 (kPa)	5 (kPa)
Specific heat capacity	1.1 (kJ/kgK)	1.1 (kJ/kgK)
Air sound	86dB	86dB
Impact sound	28dB	28dB

Ambiente goes beyond just simply the supply of underfloor heating systems.

At every stage in the project, we offer advice to all parties, in order to assist in the swift, safe and supportive implementation of your project.

From project initiation to final commissioning, ambiente have every stage of underfloor heating covered.

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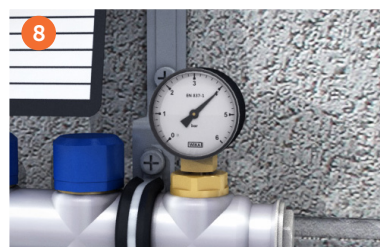
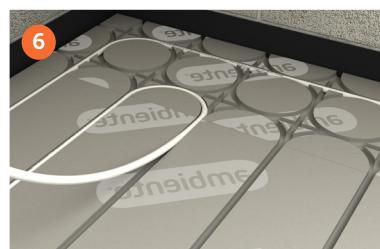
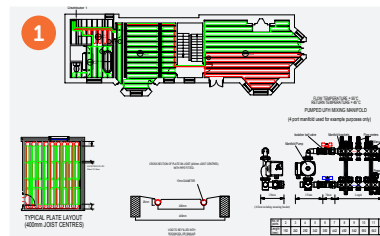
For any installation questions speak to our installation team today on **01707 64 91 18** or email info@ambienteufh.co.uk.



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

INSTALLATION METHOD

- 1 Refer to the design plan drawings and prepare to lay the floor in accordance with the layout described.
- 2 Surface must be flat and clean before laying AmbiLowboard (SRB). Start in the furthest corner of the room that is furthest from where the pipes enter the room.
- 3 Use one RX board cut in half for areas where only one return loop is required.
- 4 Use full width RX boards in areas where two return loops are required to accommodate both transit pipe for loop 1 and flow and return for loop 2. RX boards are also required in doorways where pipes enter and leave the room.
- 5 Spread AmbiLowboard (SRB) joint glue along the bottom lap and lay the lap of adjacent board on top and secure with 16mm lap screws.
- 6 Starting at the manifold, lay the pipe according to your design drawing, navigating the most efficient route between the manifold and the zone. Lay the pipe into the pre-grooved boards, as per your system design drawings.
- 7 On completion of the loop, connect to the return bar (bottom bar with blue caps). Mark up the manifold tag with the loop length and the room name.
- 8 Once all loops are installed and connected to the manifold, pressure test the system.
- 9 Lay final floor finish after the system has been successfully pressure tested. We recommend priming the boards before laying floor covering in all cases.

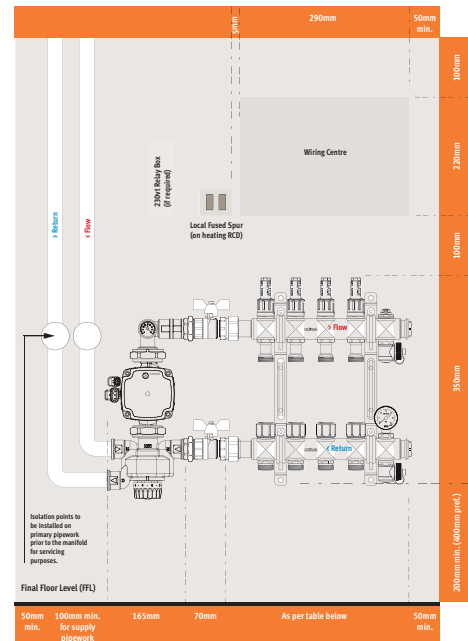


MANIFOLD POSITIONING

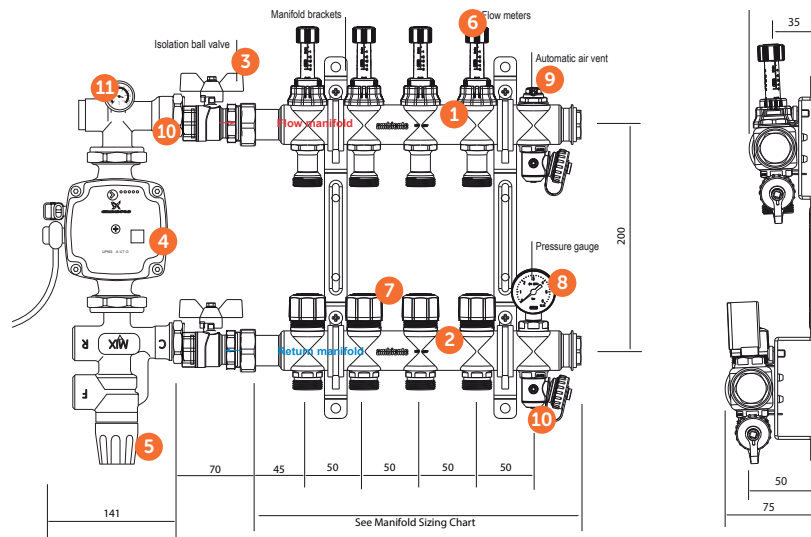
Ambiente manifolds are supplied ready assembled and simply need mounting on brackets prior to installation.

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.



- 1 Manifold flow bar
- 2 Manifold return bar
- 3 Isolating ball valves
- 4 CircoMax circulating pump
- 5 Blending valve
- 6 Flow meter
- 7 Actuator head (shown with pre-install caps)
- 8 Pressure gauge
- 9 Air vent
- 10 Filling taps
- 11 Temperature Gauge



Note: It is recommended that a 2 port motorized zone valve be installed on the primary flow before each manifold to prevent excess water pressure.

Manifold Sizing Chart

Number of ports	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Manifold length (mm)	142	192	242	292	342	392	442	492	542	592	642	692	750	805

Please Note: Recommended minimum installation clearances: 200mm between the finished floor level (FFL) and bottom of the manifold, 100mm above the manifold. 50mm to either side of the manifold and allow an extra 100mm for the supply pipe work.

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"/>

RECORD AND REPORT

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 Co² (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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Need more information or advice?
Contact our team of highly trained experts today.

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