



# INSTALL GUIDE

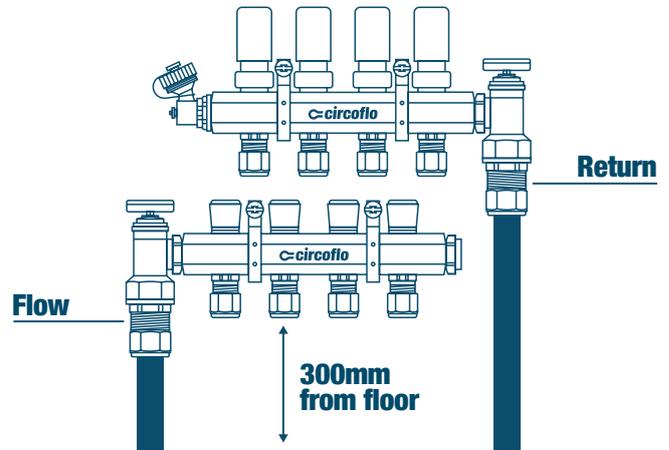
**CIRCOBOARD**

# 1. ATTACHING THE MANIFOLD

Attach the manifold to the wall using appropriate wall mounting fittings.

You can arrange the flow and return pipework in a variety of ways, depending on what is best for your installation.

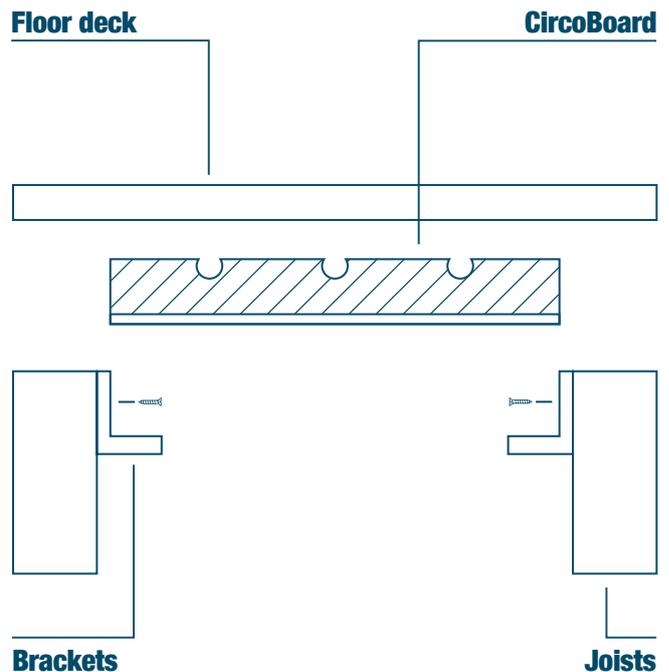
The two manifold arms should be within 500mm of each other to allow for the actuators (with 1500mm of cable) to be connected into the 4-zone wiring centre positioned close by.



# 2. FIX THE SUPPORT BRACKETS

Fix support battens 25mm below the top of the joists or L brackets to the sides of the joists with the top of the bracket flush with the top of the joist.

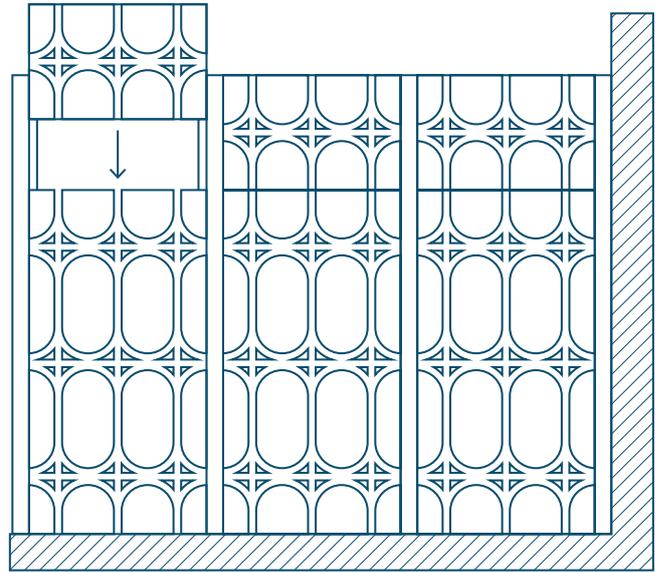
This ensures the CircoBoard panels are in tight contact with the underside of the floor deck when installed. Alternatively use wooden battens fixed onto the joist.



# 3. LAYING THE PANELS

Lay the panels in a run in front of one another between the joists.

Cut the panels along their length where necessary to fit between joists or battens. Cut the final panel in a run to fit and use to start the next run. Make sure the pipe channels on the offcut line up with the neighbouring panel.

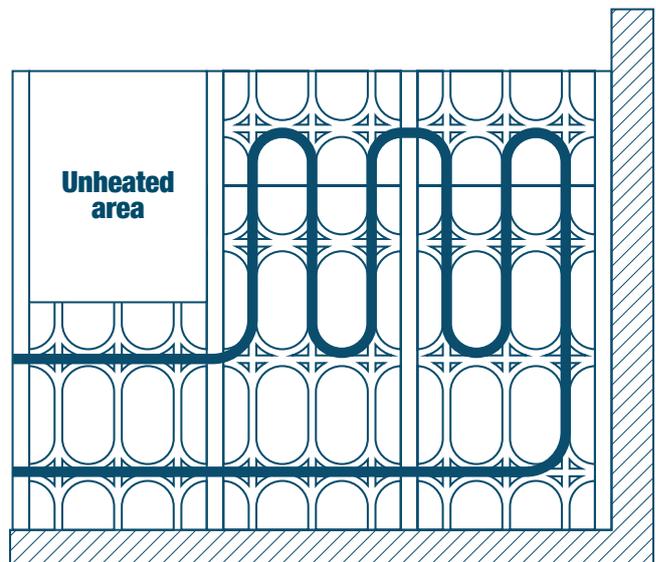


# 4. LAYING THE PIPE

Starting at the manifold and working from the edge of the room, push the pipe into the pre-perforated foil channels in a serpentine pattern.

Cut notches in the joists or battens where the pipe passes between inter-joist/batten spaces for the pipe to sit in. Ensure that there is enough pipe exposed from the floor to reach the ports on the manifold. Don't lay any pipe in areas which will be unheated (such as underneath kitchen units). Lay walking boards to provide stability when installing the pipe into the CircoBoard inter-joist panels. The panels are not strong enough to walk on.

Additional channels for the flows and returns may be required where the pipes approach the manifold. To create extra channels, use a blade knife to score and peel back the foil where the channels will be located. Next, use a Circoflo hot blade cutter to create the new channel.

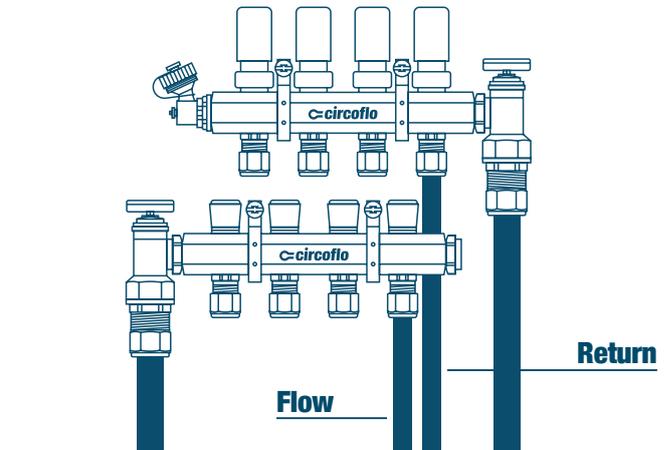


# 5. COMPLETING THE CIRCUIT INSTALLATION

When returning the circuit to the manifold, cut the pipe with a pipe cutter ensuring that the pipe is long enough to reach the manifold.

Label the pipe with flow and return, and number the circuit. This will help when connecting to the manifold.

**Note:** Once the panels and pipe have been laid, they should be protected with walking boards especially in areas with high levels of foot traffic such as doorways.



# 6. CONNECTING THE MANIFOLD

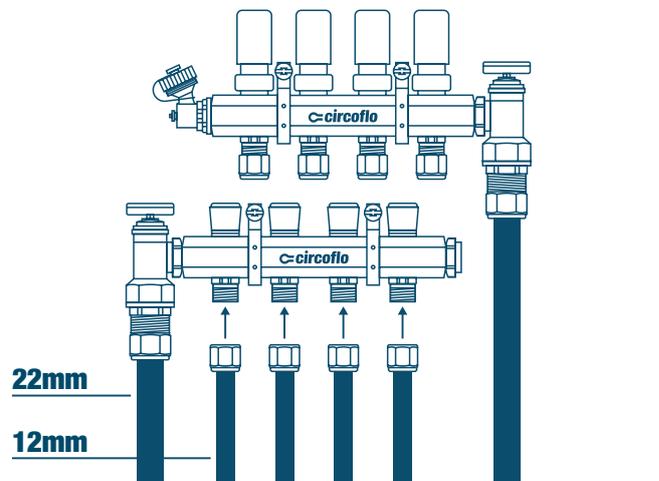
Connect the 22mm primary pipework from the heat source. If you require a mixing unit this will need to be installed in the primary heating pipework along with a standard pump typically located beside the boiler/ heat source.

Fit the monoblocco connectors on to the ends of the 12mm pipe and screw onto the manifold by hand. Using a spanner, tighten the connection whilst maintaining upwards pressure on the pipe.

**Note:** Once connected, it is recommended to insulate all primary pipe work.

Before continuing, complete the connection checklist below:

- All manifold joints are tight and sealed
- Primary flow and return are connected to the manifold correctly
- Isolating valves and drains left closed
- Pipes marked with circuit numbers and “flow” or “return”
- Ensure that all Circoboard and plain insulation panels butt tightly together with no gaps.



# 7. FILLING THE SYSTEM

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If your project uses more than one Circoflo underfloor heating system, lay all of the other systems and connect to the manifold(s) before moving on to filling the systems.

Now follow the commissioning and bleeding instructions on the manifold. Make sure to fill out the commissioning information on the manifold booklet.



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