

ALTIS DRY

V1.1 – October 2026

Altis Dry panels use an 18mm high density dry screed panel, which acts as a heat conducting surface, transferring heat from the pipes to the heated floor above. Once up to temperature, it delivers enough heat output to provide warm and even ambient temperatures within the living space.

Use this document only as a guide for installing the Altis Dry system. Always check the floor covering manufacturer's guidelines before laying your finished floor.

KEY PARTS OF ASSEMBLY

ALTIS DRY BOARD	600 x 800 x 18mm (W x L x D)
ALTIS DRY	300 x 320 x 18mm (W x L x D)
END SUPPORT PIPE	12 x 1.4mm PERT barrier pipe



BENEFITS

- Quick, trouble-free pipe installation
- Pipework stays fixed in position
- Flexible layout – ideal for larger floor areas
- Direct tiling possible (subject to structural integrity)
- Best suited to hard floor coverings such as stone and tile

FEATURES

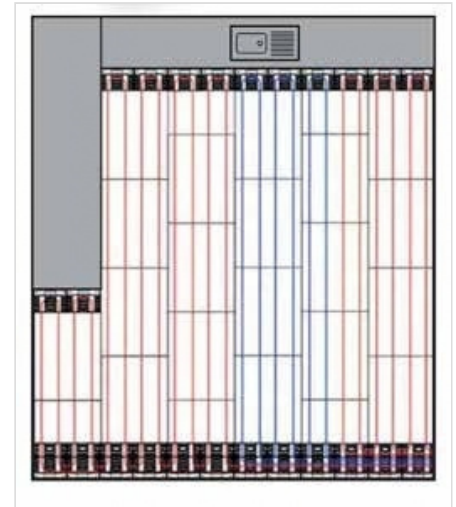
- 18mm high density dry screed panel
- End Supports with multiple snapping points
- Integral pipe securing system
- Supports the floor covering around the room perimeter – no levelling compound needed
- For use with 12 x 1.4mm PERT barrier pipe

ALTIS DRY

SYSTEM OVERVIEW

The best floor coverings to combine with the Altis Dry panels are hard surfaces such as stone and tile, as they offer the least resistance to heat transfer compared to carpets. The main benefit of the panel is the option to apply tiles directly (subject to structural integrity) using a flexible adhesive. In most instances, however, a 4–6mm Levelling compound is recommended before tiling.

When floor coverings such as carpet are to be fitted, the system design must factor in the extra heat output needed; this loss in output is offset by increasing the flow temperature.



Typical board, End Support and manifold layout.

THE END SUPPORT

The Altis Dry End Support is a multifunctional underfloor heating pipe and floor support system. Its multiple snapping points allow a more flexible approach to installation, letting the installer cover larger floor areas. The integral pipe securing system gives a quick, trouble-free installation and keeps the pipework fixed in position.

The End Support supports the floor covering above around the perimeter of the room, without the need for a Levelling Compound, and supports the pipework once pressed into place.

These are also used for support of the pipe when feed pipe to the rooms.

BEFORE YOU START

WARNING

Ensure the floor is structurally sound and level before laying the panels, and that it has been swept thoroughly. Please ensure the Altis Dry panels line up with the end supports. Install a thermal expansion strip around the perimeter of all walls to limit heat loss and reduce the risk of cracking.

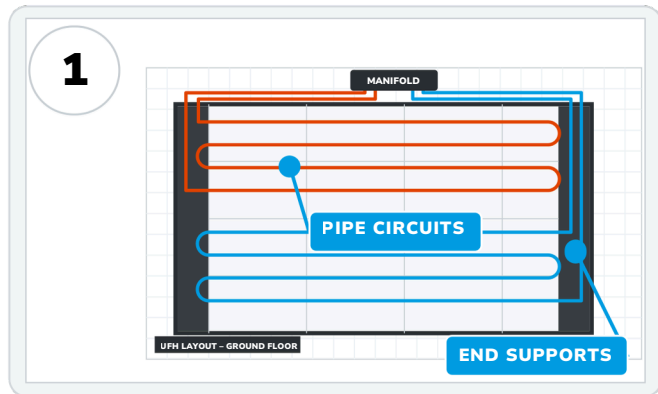
INSULATION (PROVIDED BY OTHERS)

In accordance with Part L of the current Building Regulations, a suitable layer of insulation should be included within the floor construction. It is the responsibility of the architect or builder to ensure compliance. In all instances, insulation must be installed beneath the underfloor heating system so that downward heat loss does not exceed 10 W/m², in accordance with BS EN 1264.

Any insulation boards directly under the UFH panels need to be 300kPa or stronger. lower than this can cause floor failures

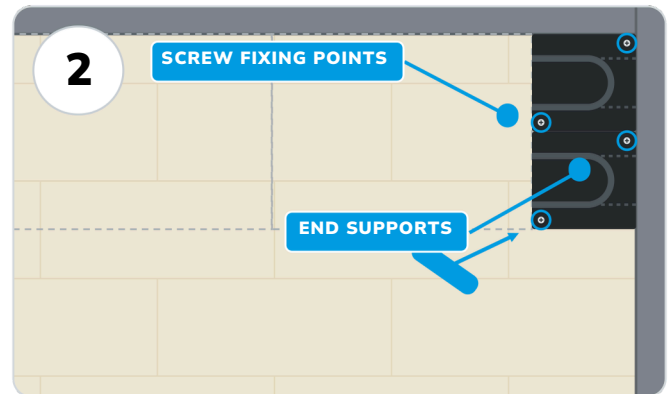
ALTIS DRY

INSTALLATION STEPS

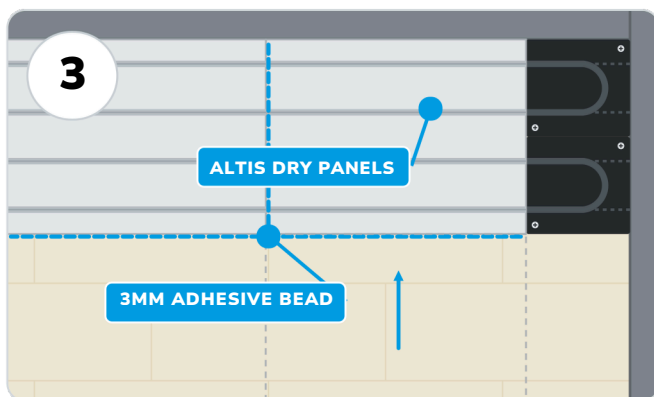


Planning the system. Review the floor plan layout and confirm the manifold locations are correct. Due to the nature of the system, there may be alterations to the design, and changes may need to be made to the pipe routes.

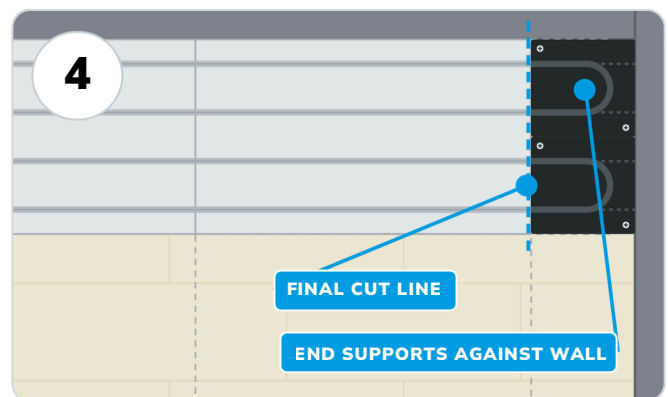
Prepare the room by sweeping up and laying down the perimeter strip around all walls (external and internal).



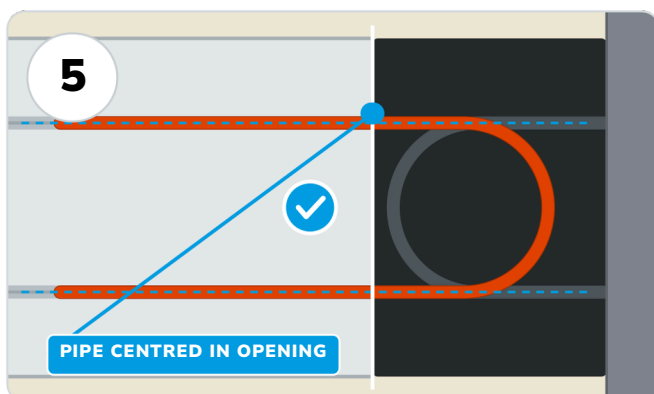
Start by laying the first two End Supports into the corner of the room and fix to the timber floor using the screw holes provided. If fitting onto a concrete floor, either bond the returns to the floor with Altis Dry adhesive, or fix directly into the concrete with plugs and screws.



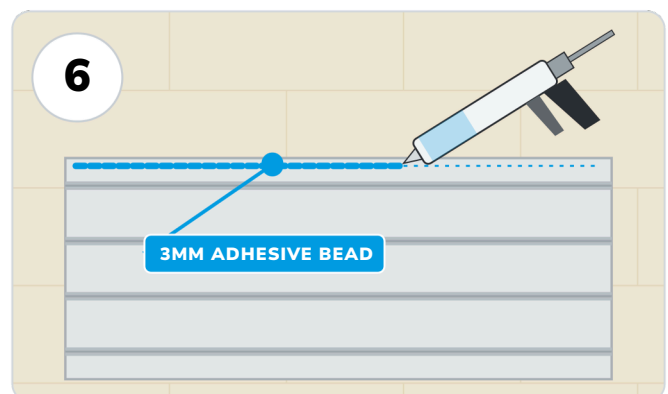
Lay the first Altis Dry panels against the first two End Supports. Clean down the boards and apply a 3mm bead of adhesive along the edges to make sure the boards are secure.



As you approach the end of the first row, place two End Supports into the corner, up against the wall. This leaves a final cut of board to complete the first row, if required.



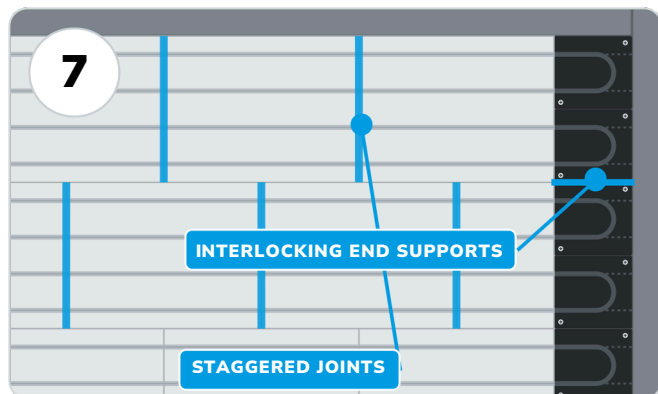
Important: Ensure the Altis Dry panels line up with the End Supports – adjust the boards to suit. Make sure the pipe leaving the board is aligned centrally with the opening in the End Support.



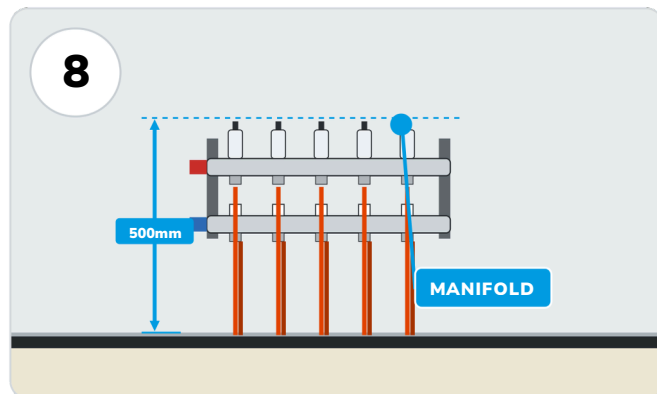
Work your way back up the room, staggering the panels as you go. Apply a 3mm bead of Altis Dry adhesive to all edges.

ALTIS DRY

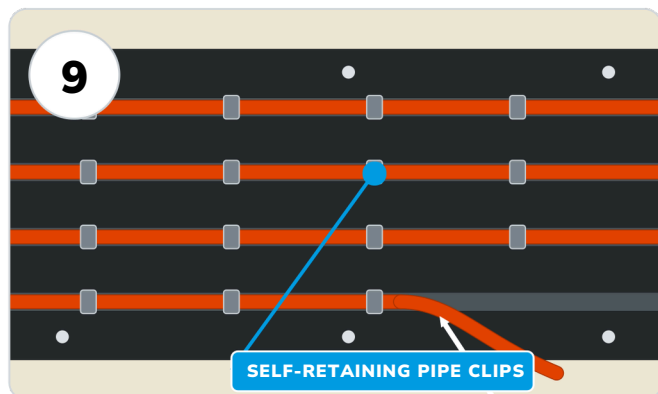
INSTALLATION STEPS



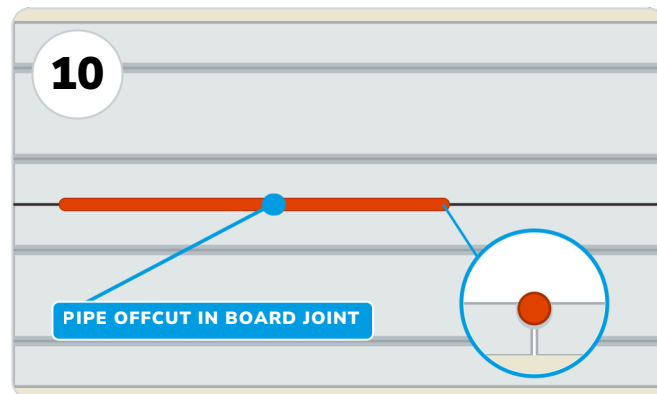
On completing the first row, start again by placing two more End Supports next to the existing ones, securing them with the integral interlocking points. Then work your way back up the room, staggering the panels and applying the 3mm bead of adhesive to all edges.



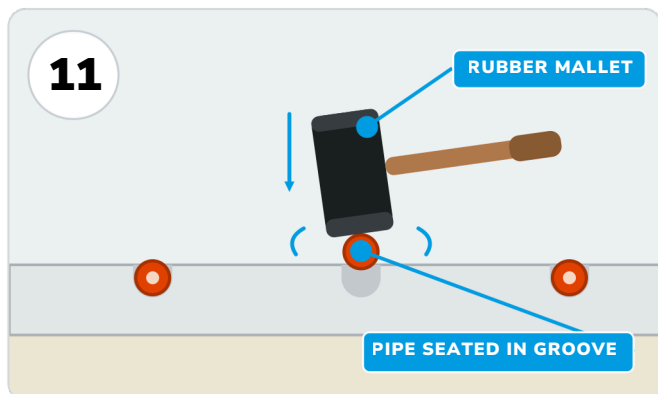
Fix the manifold to the wall, approximately 500mm from the floor to the top of the flow meters. Connect the first circuit to the manifold with the Eurocone adaptors.



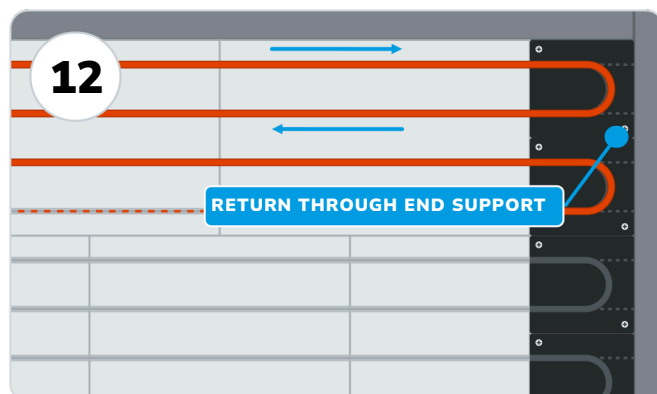
Roll the pipe into the End Support using the self-retaining pipe clips, and continue to push the pipework into the connecting pipe runs until you reach the other end of the room.



Top tip: place a small piece of underfloor heating pipe in the groove where two boards join. This helps keep the floor in place.



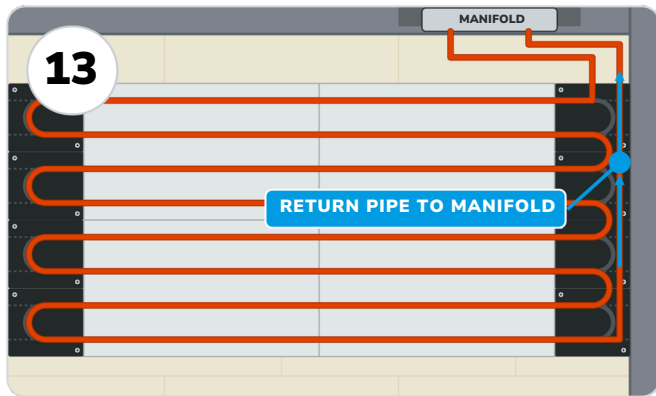
Push the pipe into the Altis Dry board, making sure it sits beneath the surface of the board. A rubber mallet is the best way to ensure a good fixing.



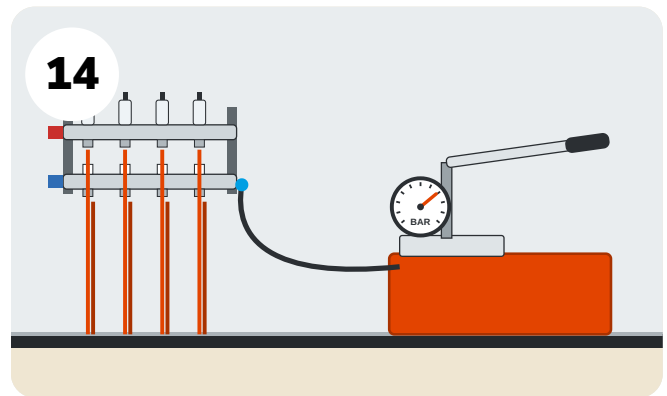
Continue laying the pipe along the room, walking it into the groove as you go. When you reach the end of the room, use the End Support to return the pipe towards the other end.

ALTIS DRY

INSTALLATION STEPS



Complete the first circuit and connect the return pipe to the manifold using a Eurocone connection. Repeat for all circuits.



Once all the pipe circuits are complete, make sure all pipework is pressure tested (conforming to BS EN 1264) – see below.

FLUSHING THE SYSTEM

- 1 Once all circuits are complete and all connections are tight, connect a suitable hose to the upper and lower drain valves on the right-hand side of the flow and return manifold.
- 2 Connect the lower drain valve to the cold water fill. Make sure the red and blue isolators, all flow meters and the white lockshields are closed. Working from the left, open the flow meter and lockshield valve for the first circuit. With all other circuits closed, open both drain valves and flush the first loop. Check the water coming out of the hose into a suitable drain flows freely, without any bubbles.
- 3 Repeat on the remaining circuits. Important: once each loop has been flushed, close both its lockshield and flow meter. Only one loop should be open at a time when flushing.

PRESSURISE THE SYSTEM

Once all loops are flushed and air has been removed, pressurise the system to a minimum of 4 bar (Max 6 Bar) using a suitable pressure tester. Open all circuit lockshields and their flow valves, and close the upper drain valve on the right-hand side of the manifold. Connect the pressure tester to the lower valve and raise the pressure to between 4-6 bar after initial system settling (where the pressure can drop) it may require repressurising.

TESTING PERIOD

We recommend holding the system at 4-6 bar for 1 hour. The gauge may drop even without a leak, due to the temperature change of the water and system settling; generally, a leak will show within 1 hour by reducing pressure to 0 Bar.

Full instruction and pressure test certificate can be found in our main installation guide.

ALTIS DRY

FLOOR COVERINGS

CERAMIC TILES, SLATE, STONE

Tile and stone floor coverings can be laid directly on top of the Altis Dry boards. The boards must first be primed with a suitable multi-surface or latex-based SBR primer suitable for UFH the tiles can then be secured using a suitable S2 flexible tile adhesive.

ENGINEERED HARDWOOD

Engineered hardwood floors can be applied directly to the Altis Dry boards, which provide a structural base and support for the floor above. Take care when choosing the board thickness – the thicker the board, the lower the available heat output. we recommend to use a suitable underlay to reduce point surface temperature. Multipipe recommends a maximum thickness of 18mm on top.

CARPET & UNDERLAY

Multipipe recommends fitting an intermediate 6-10mm cement board layer or levelling compound before laying the carpet and underlay.

LINOLEUM & VINYL

A completely flat surface is required. Typically, a 10mm intermediate cement board, or a 6-10mm layer of self-levelling compound, can be applied. Either method will also improve the efficiency of the underfloor heating system.

Please confirm with the floor covering manufacturer that it is suitable for underfloor heating. BS EN 1264 advises that, in occupied areas, the floor temperature **must not exceed 9°C higher than the air temperature required**, and that with timber floor coverings the surface temperature should **not exceed 27°C**.

TYPICAL HEAT OUTPUT

Flow/return temp. (°C)	Heat output (W/m²)*		
	Tile / 6mm ply **	Engineered wood floor	Carpet 1.5 TOG / 6mm ply
50/45	96		49
45/40	78	56	39
40/35	60	43	30
35/30	42	30	21

* Typical heat output based on BS EN 1264, 20°C room temperature, delta T 5, tile or stone covering. Because heat output depends on flow temperature, pipe spacing, floor covering and design conditions, please contact the technical department on **01245 227630** to confirm a true system output .

** Please ensure the structural integrity of the floor is confirmed. floor cracking can occur if there is movement in the subfloor. Before installing, make sure the system is fit for purpose and the design is strictly followed. Call **01245 227630** if you are unsure.

IMPORTANT

Raise the water temperature gradually by 5°C per day up to the maximum working temperature given in your design details (normally no higher than 45°C flow temperature). If in any doubt about the installation, call us on 01245 227630.