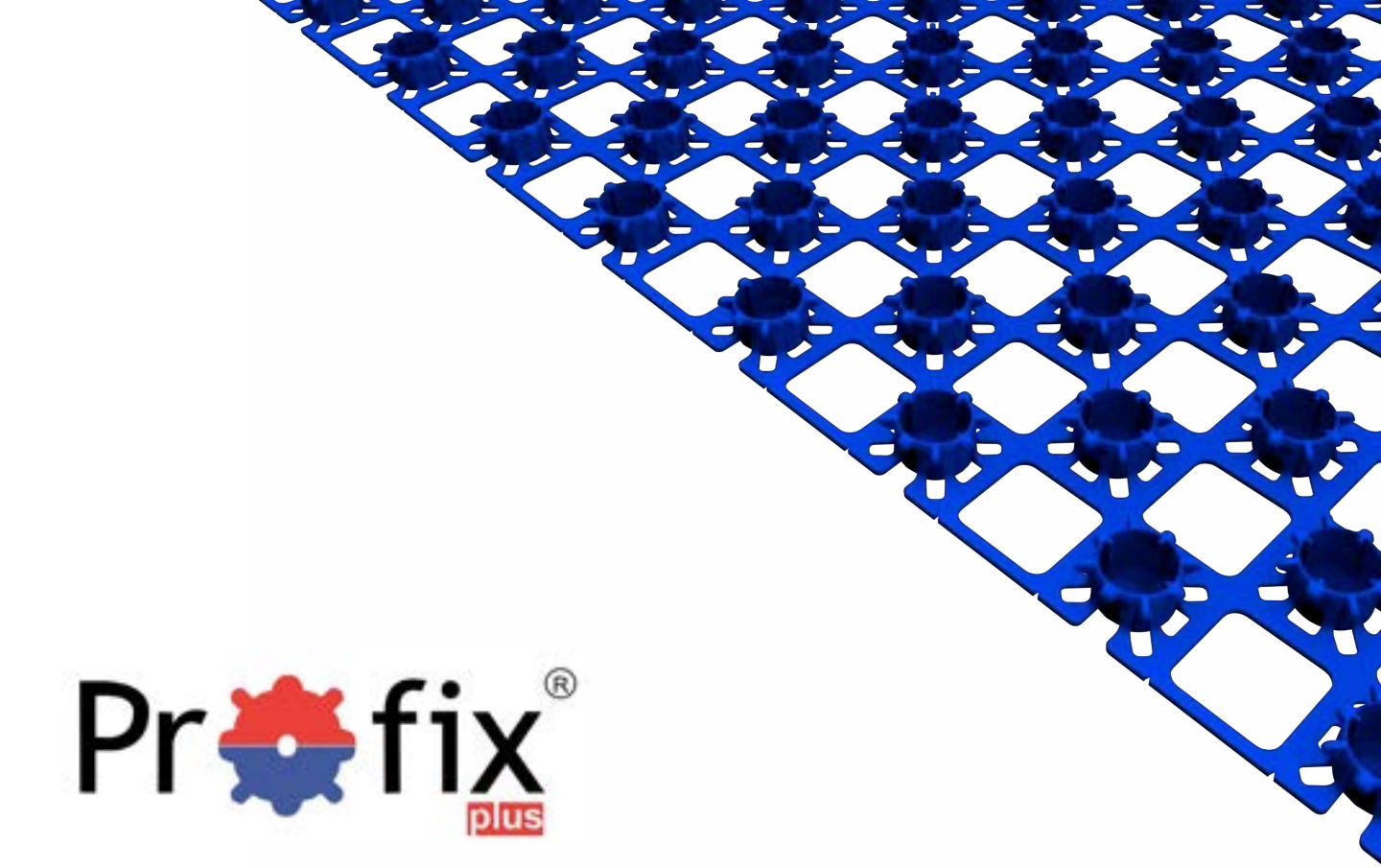
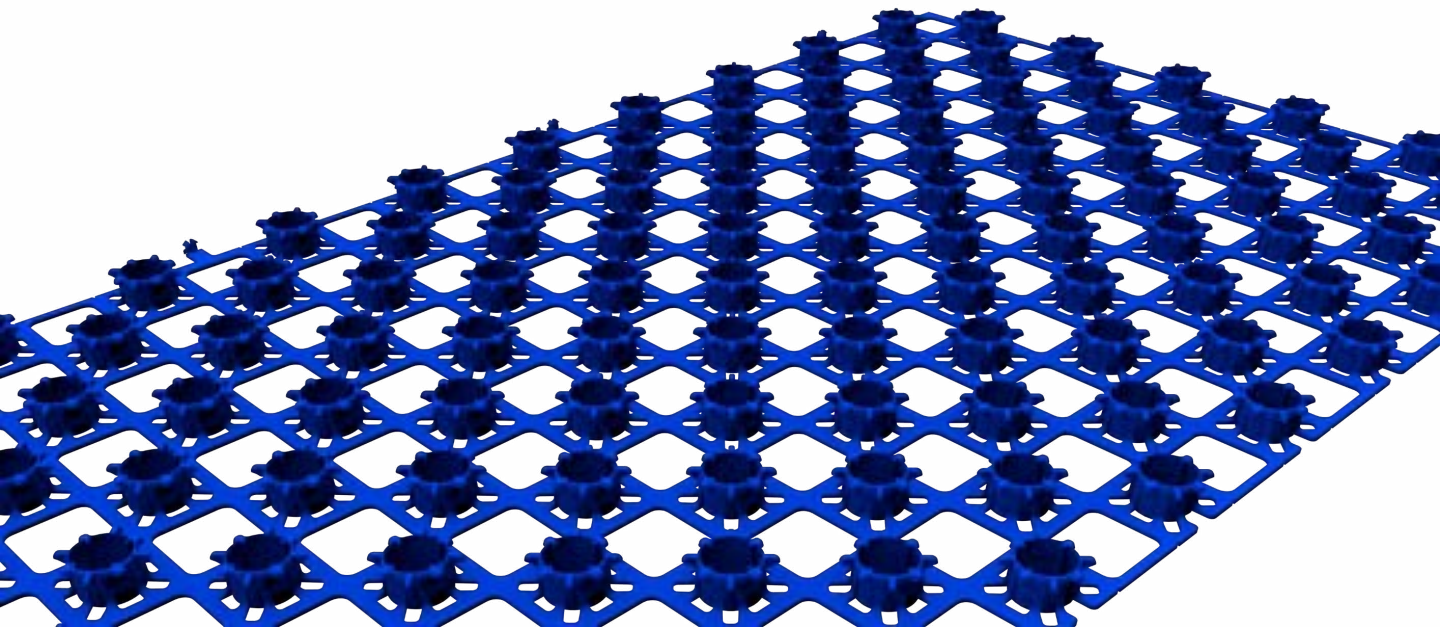


Installing the Profix® PLUS ‘Pipe in Void’ and ‘Pipe in Heat Diffuser Plates’ system

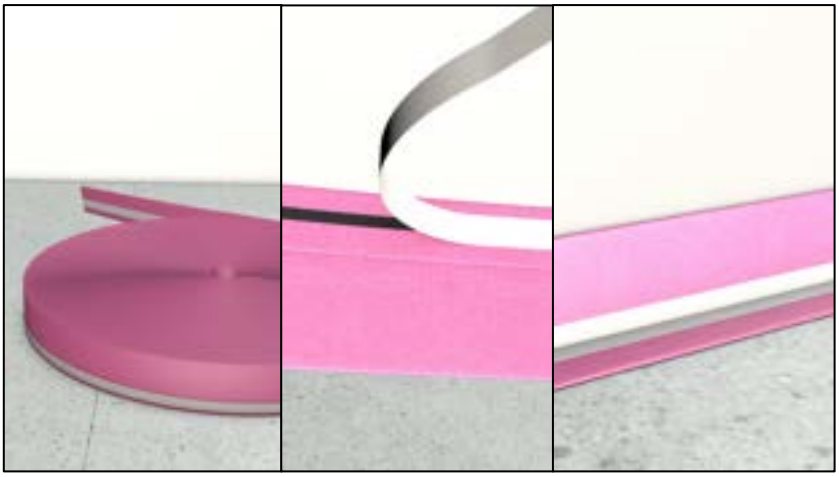
All materials must be stored between +5°C and +25°C and allowed to acclimatize to the environment in which they are to be installed (+10°C to +25°C) for a minimum of 24 hours before installation. Materials must not be exposed to direct sunlight.



PREPARE THE TIMBER/CONCRETE FLOOR

Ensure the floor is capable of supporting the required loads without deflection. Damaged floor boards should be replaced. Timber floors which flex or move under load when walked on will need to be over-boarded with plywood (minimum 6mm) before installation of the Profix® PLUS Panels. Gaps between existing floor boards should be filled, or the floor over-boarded with plywood, or the floor overlaid with 6mm or 10mm Profix® XPS Insulation. Concrete floors should be levelled to SR2 (minimum).

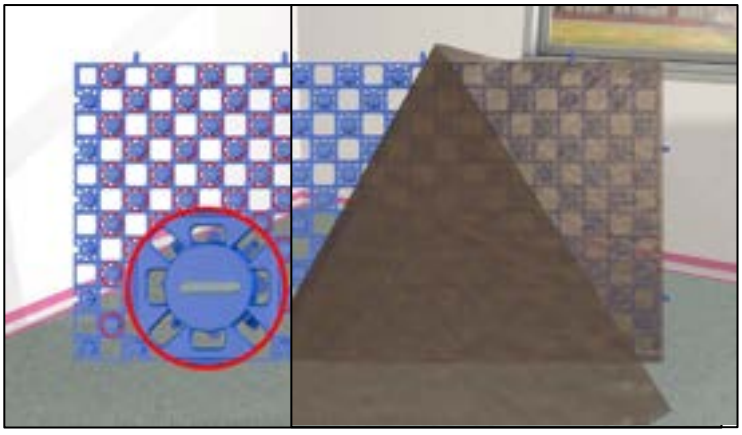
Old coatings, adhesives or other surface contaminants should be removed and the floor vacuumed to remove any dust or debris.



Profix® PE Edge Insulation should now be fitted around the perimeter of each room and to any other vertical upstands.

Peel back the release paper on the 25mm width to expose the adhesive and stick it down to the floor. The 25mm width should form a right-angle with the 50mm width standing vertically up the walls and other upstands.

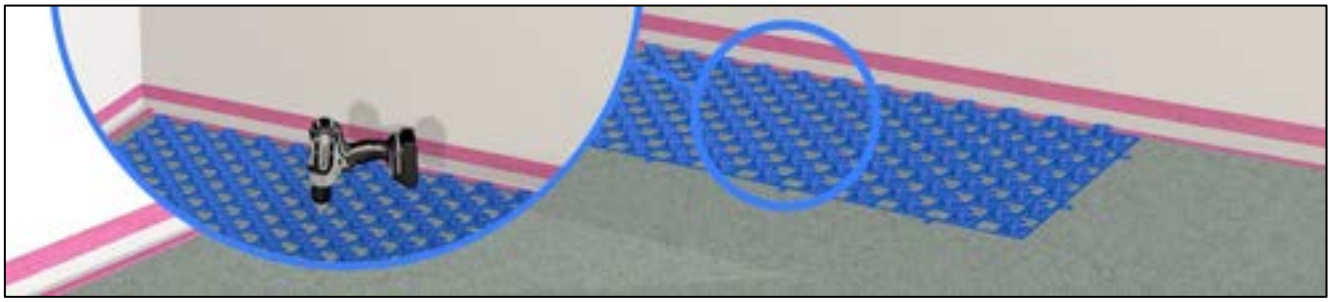
INSTALL THE PROFIX PLUS PANELS



Peel off the release film from the underside of the first panel to expose the adhesive.

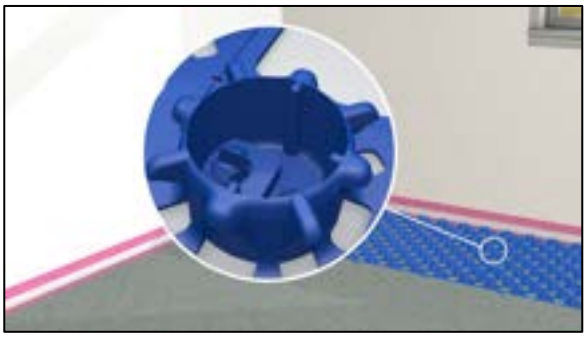
Place the first panel in the corner of the room and abut it to the edge of the Profix® PE Edge Insulation, ensuring that the male snap-connectors are facing to the right and to the front.

The panels can also be mechanically fixed in the centre of each of the raised castellations if required.

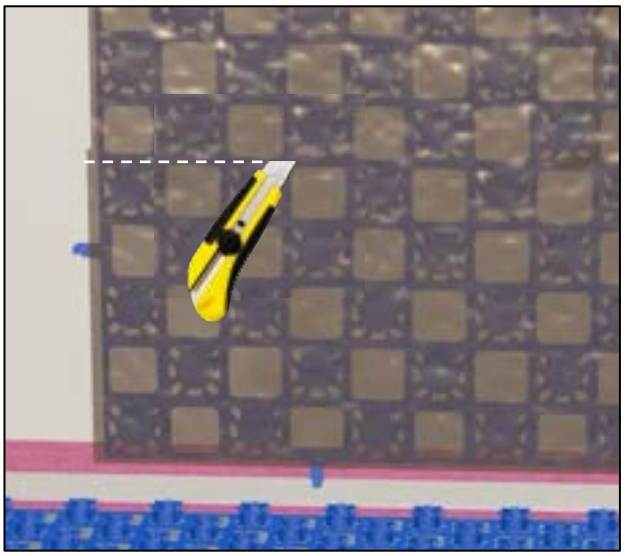


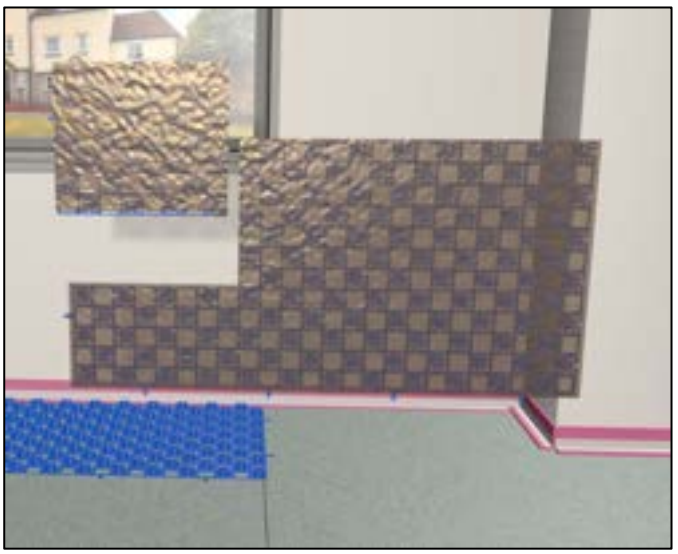
Peel off the release film from the underside of the second panel to expose the adhesive.

Carefully place the second panel to the right of the first panel, ensuring that the male snap-connectors on the first panel align with the females in the second panel and that the back edge of the panel aligns with the Profix® PE Edge Insulation. Press the panel down to engage the snap-connectors and to fully adhere the panel to the floor.



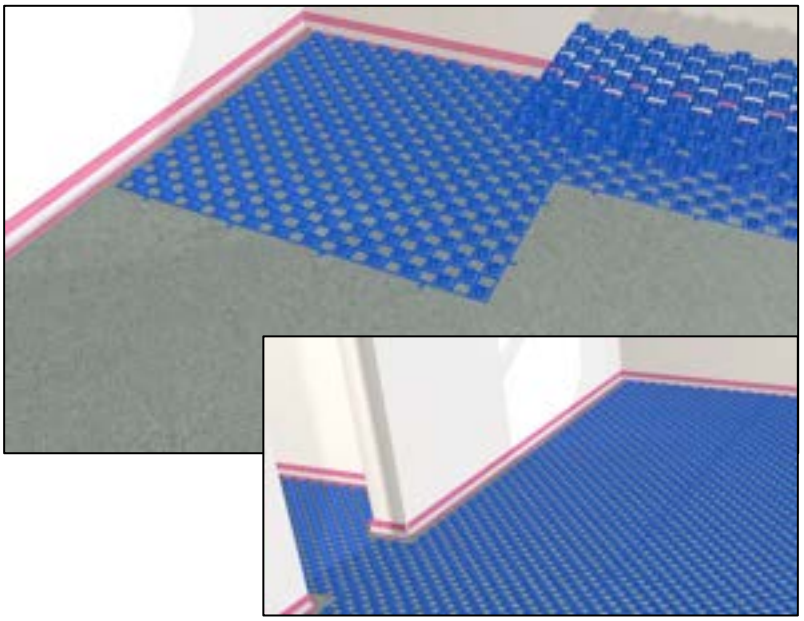
Repeat the process for the remaining panels in the first row, cutting the final panel in the row to length if required.





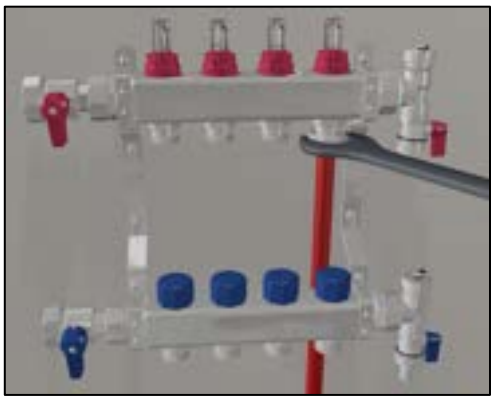
Commence laying the second row of panels by positioning the first panel in this row (with the male snap-connectors facing to the right and the front) parallel to the previous row. Ensure that the male snap-connectors along the front edge of the panel in the first row align with the females in this panel. Press the panel down to engage the snap-connectors and to fully adhere the panel to the floor.

Carefully place the next panel to the right of the previous panel and ensure that the male snap-connectors on the previous panels align with the females in this panel. Repeat for further panels until the second row is completed, cutting the final panel in the row to length if required.

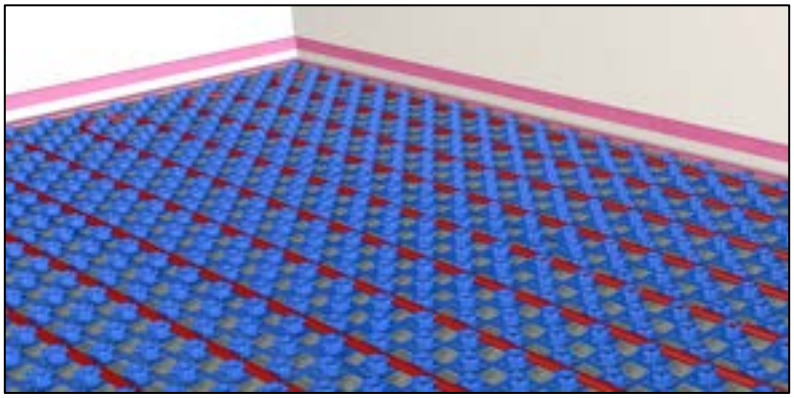


Continue laying the panels a row at a time until the entire floor is covered with panels.

INSTALL THE UFH PIPEWORK FOR THE ‘PIPE IN VOID’ SYSTEM

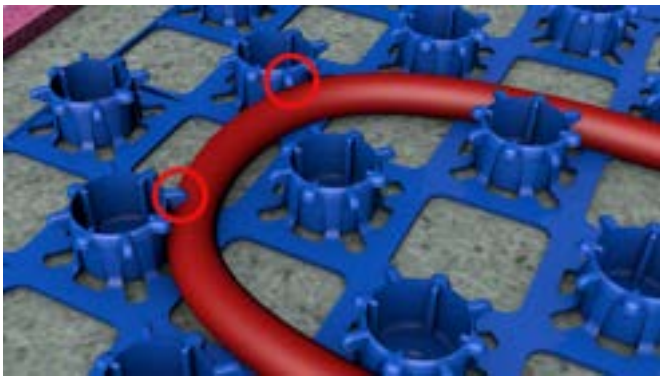


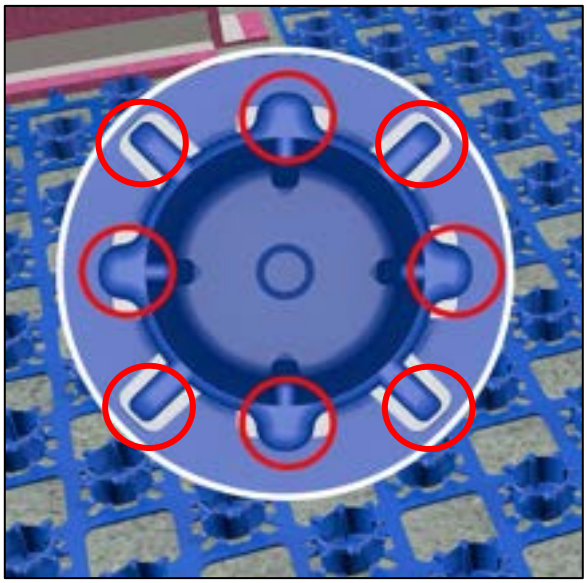
Connect the first pipe run to the manifold.

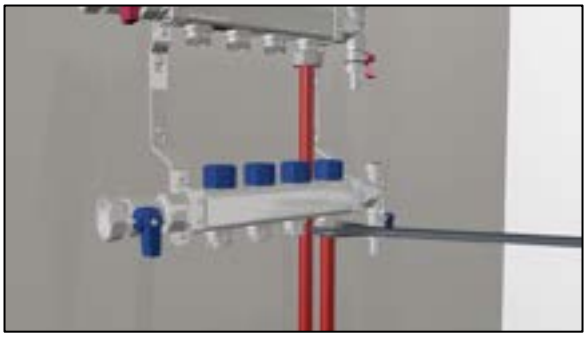


The pipe can be installed in either a ‘counterflow (spiral)‘ pattern or a ‘serpentine’ pattern to suit the specific requirements of the underfloor heating design.

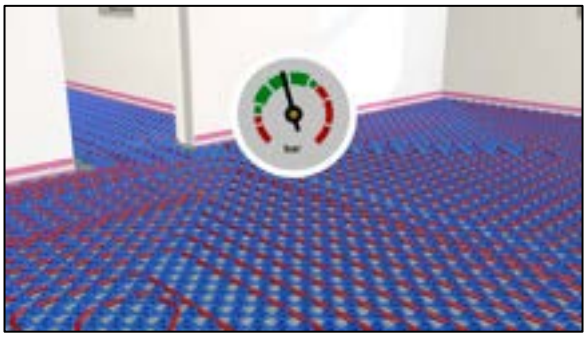
The underfloor heating pipe is held securely in position by the special pipe retention features in the panel.







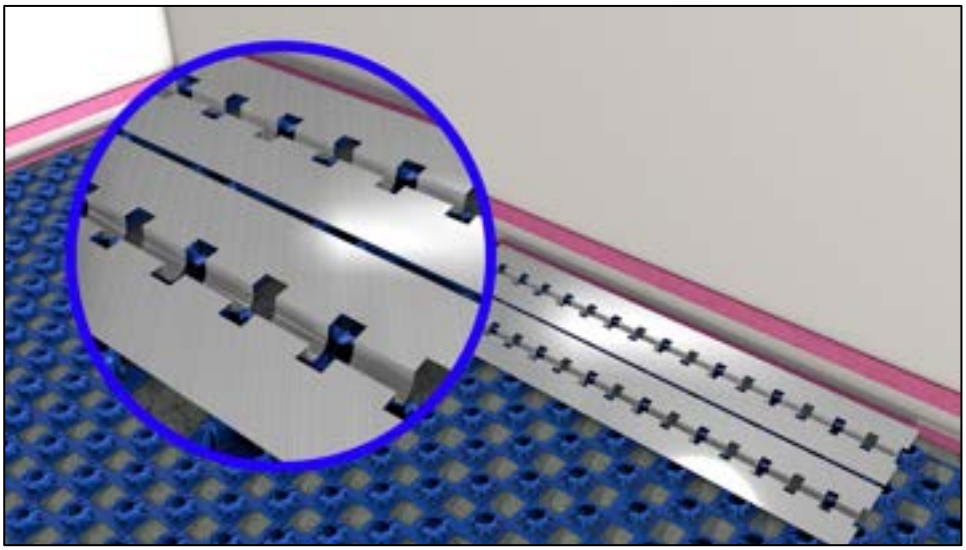
Return the first pipe run to the manifold.



Connect all additional pipe runs to the manifold. Pressure test the system to ensure there are no leaks.

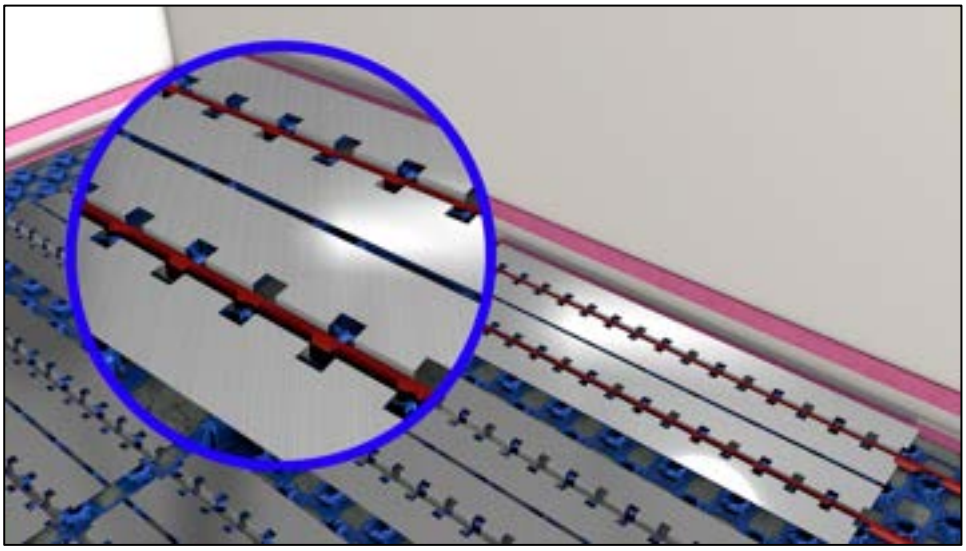
INSTALL THE UFH PIPEWORK FOR THE ‘PIPE IN HEAT DIFFUSER PLATES’ SYSTEM

Profix® PLUS aluminium heat diffuser plates can be added to achieve higher heat outputs and improve system response.

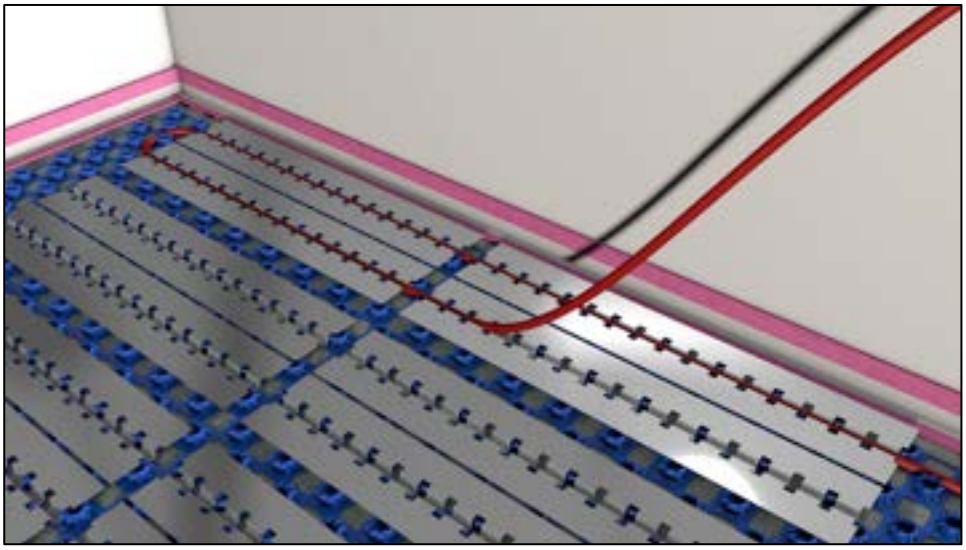


Pre-formed slots in the heat diffuser plates expose the special pipe retention features in the Profix® PLUS panels.

The underfloor heating pipe is held securely in the heat diffuser plates by means of the pipe retention features in the Profix® PLUS panels.



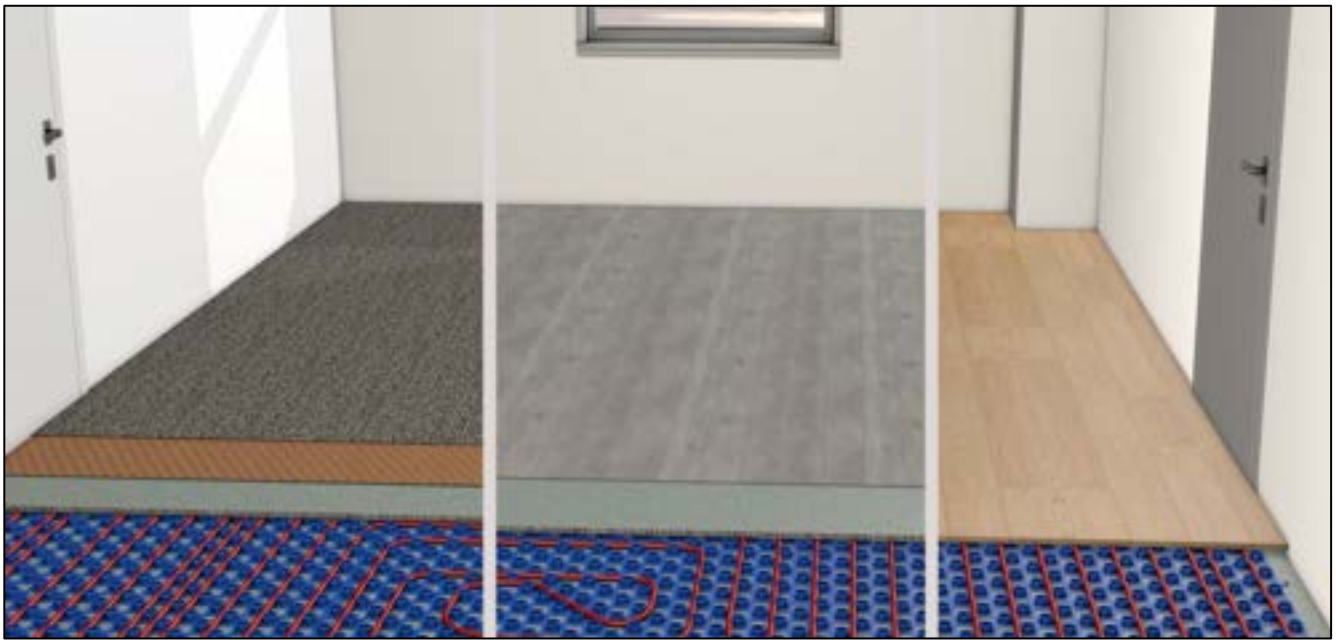
14mm – 17mm pipe installed in ‘serpentine’ pattern.



INSTALL T & G ENGINEERED WOOD FLOORING

Engineered Wood Flooring (minimum 15mm thick) or T & G Flooring Grade Chipboard (or similar, minimum 18mm thick) can be installed directly onto the Profix® PLUS panels.

Independently tested for both uniformly distributed loads (UDL) and point loads (data available on request).



Carpet & Underlay over T & G Flooring Grade Chipboard (or similar, minimum 18mm thick)

Luxury Vinyl Floor Tiles (LVT) over T & G Flooring Grade Chipboard (or similar, minimum 18mm thick)

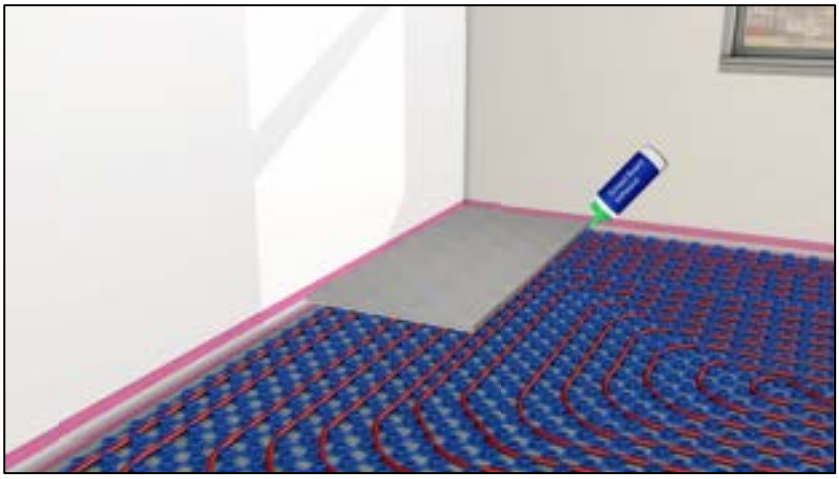
Engineered Wood Flooring Direct (minimum 15mm thick)

INSTALL T & G DRY SCREED REPLACEMENT BOARDS

T & G Dry Screed Replacement Board (minimum 18mm thick) can be installed directly onto the Profix® PLUS panels.

The superior thermal conductivity of dry screed replacement boards compared to traditional wood-based boards will improve both heat output and system response and provides an ideal surface for tiling.

Independently tested for both uniformly distributed loads (UDL) and point loads (data available on request).



Carpet & Underlay over T & G Dry Screed Replacement Board (minimum 18mm thick)

Luxury Vinyl Floor Tiles (LVT) over T & G Dry Screed Replacement Board (minimum 18mm thick)

Tiles over T & G Dry Screed Replacement Board (minimum 18mm thick) primed using a suitable dispersion primer