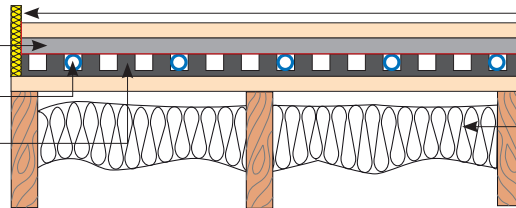


Floor installation instructions

FDT14 – 14mm Fastflo® in low-profile FastDeck® moulded panels with foil-faced deck, on a timber deck

Supplied by Nu-Heat

Foil-faced deck
14mm UFH tube
FastDeck® moulded panel



Supplied by others

Edge isolation strip (optional)
Floor covering
Structural timber deck
Insulation between joists

TECHNICAL INFORMATION

Substrate

It is important that the underlying substrate is flat and level to at least SR2 standard (5mm deviation over 2 metres) so that deflection is minimised.

Insulation

Mineral wool or rigid insulation can be installed between joists if required. The thickness required to comply with Building Regulations can vary. Insulation below the underfloor heating layer will improve performance.

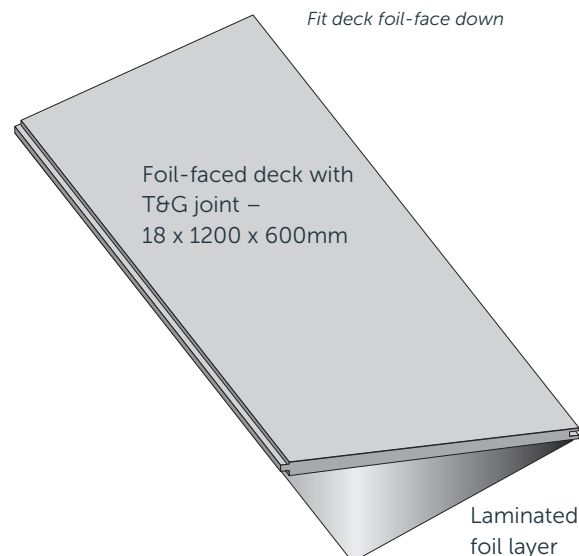
FastDeck® components

FastDeck® consists of two main components:

Individual 500mm x 500mm moulded panels are clipped together on top of a structural deck



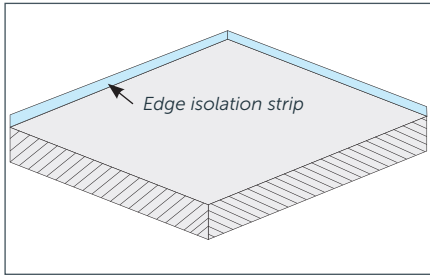
Fit deck foil-face down



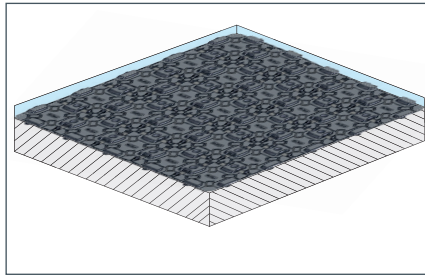
A A low-profile moulded polypropylene panel that can be clipped together across the existing structural deck; used to carry the 14mm Fastflo® underfloor heating pipe.

B A structural 18mm foil-faced cover deck, which is placed on top of the FastDeck® panel to form the final surface on which floor coverings will be fitted. T&G joints are glued.

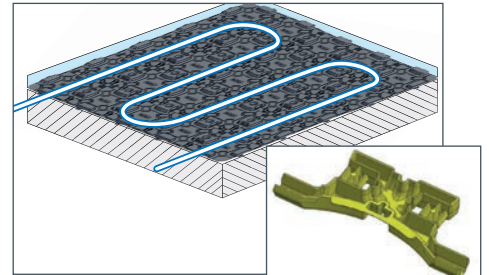
INSTALLATION SEQUENCE



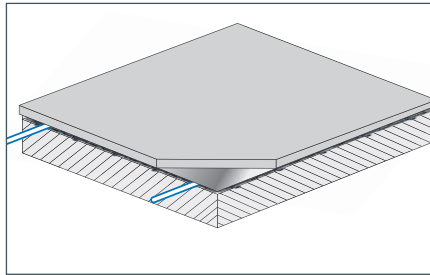
- 1 Fit insulation between joists (if required).
- 2 Fit an edge isolation strip around all walls in the room (if required).



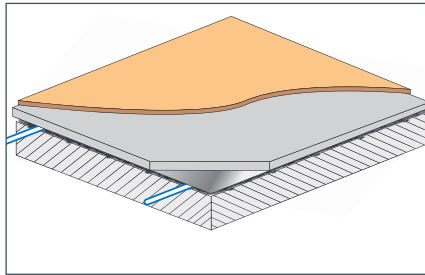
- 3 Lay the moulded FastDeck® over the insulation layer. Use the staples supplied to secure it into the insulation around the edges of the room.



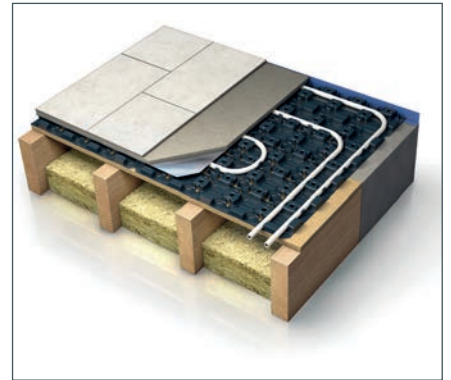
- 4 Lay the Fastflo® UHF pipe pushing it firmly into the FastDeck® panel. Use the green anchor clips if necessary to hold pipe in place on turns.



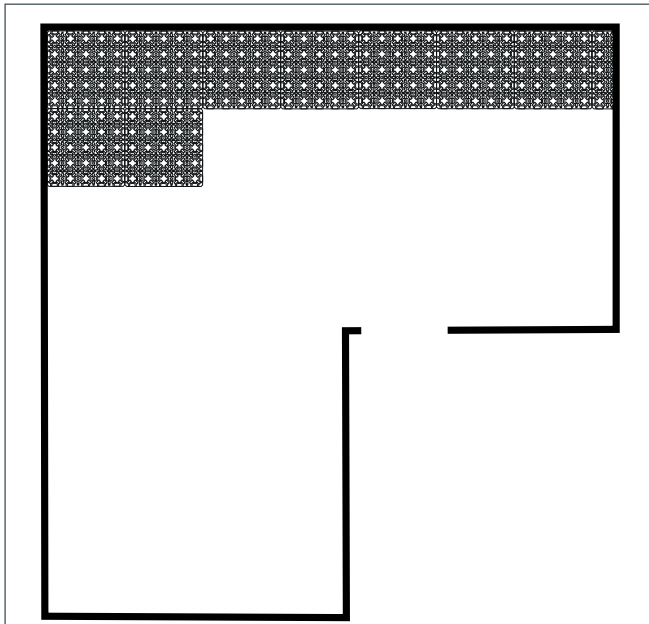
- 5 Lay the deck supplied with the foil facing down. Glue the T&G joint with the PU adhesive supplied.



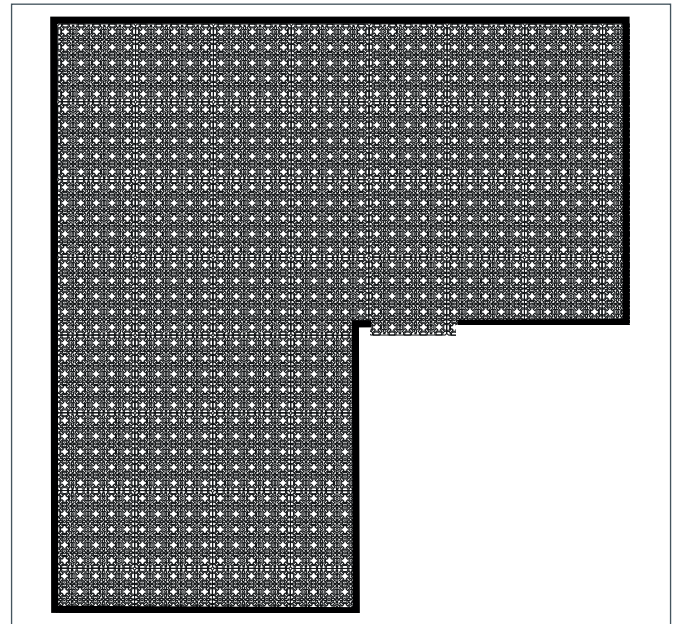
- 6 Fit the floor finish. Carpet, vinyl, tiles and engineered timber are all suitable for use over FastDeck®.



INSTALLING THE MOULDED FASTDECK® PANEL



- 1 Starting against a straight wall, lay the first row with the male edges facing into the centre of the room – this will allow the next panel to drop on top of the clip. The panels lock together.
- 2 Cut off any excess panel at the end of the run – offcuts can be used to fill in at the edges of the room as needed.



- 3 Fill the entire room with moulded panel. On timber sub-floors, the panel can be screwed down if required but this is not essential.

Panel is easy to cut with a handsaw or circular saw.



3 Connect one end to manifold

4

DINING ROOM ZONE 3

Nu-Heat

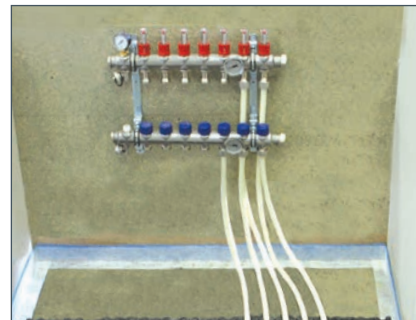
Label zones

Diagram 5 shows a grid with green lines representing a serpentine layout. Diagram 7 shows a grid with blue lines representing a serpentine layout.

- Note:** Do not kink the tube.

- Note:** All tube coils within a single zone must be no more than 10% different in length.

- 7** All remaining coils for the zone can now be installed in exactly the same way until the room is fully covered with tube.



- 8** Leave a section approx. 400mm wide below the manifold clear to allow close spacing of pipes.

CONNECTING THE PIPE AND PRESSURE TESTING

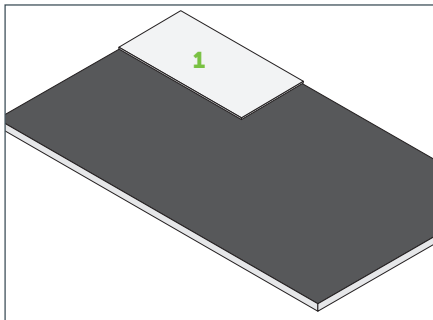
- 9** When the correct number and lengths of tube are laid in the floor, trim excess coil length and connect to the manifold as described in the *Installation Manual*. All ports on the manifold should now be connected.

Note: Always mark the flow and return pipes with their correct zone names. Do not get pipes crossed.

- 10** The manifold must now be filled and pressure tested as described in the *Installation Manual* before the cement board deck is fitted.

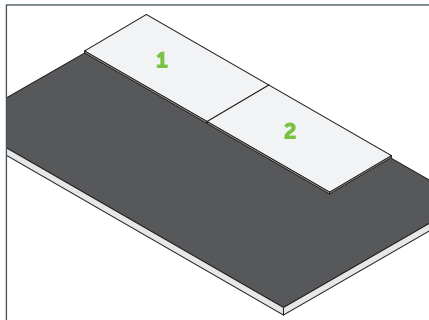
INSTALLING THE FOIL-FACED COVER DECK

The foil-faced deck should be laid in a brick-bond pattern on top of the FastDeck® moulded panel – this will give a stronger joint.

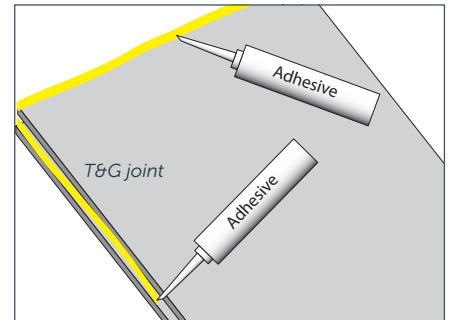


- 1** Starting against a straight wall, lay the first panel – **foil face down**.

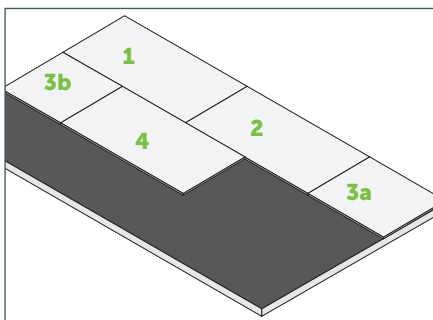
Remove the T&G joint next to the wall.



- 2** Lay the next panel, ensuring it is pushed firmly against its neighbour. Continue laying panel along the edge of the room.

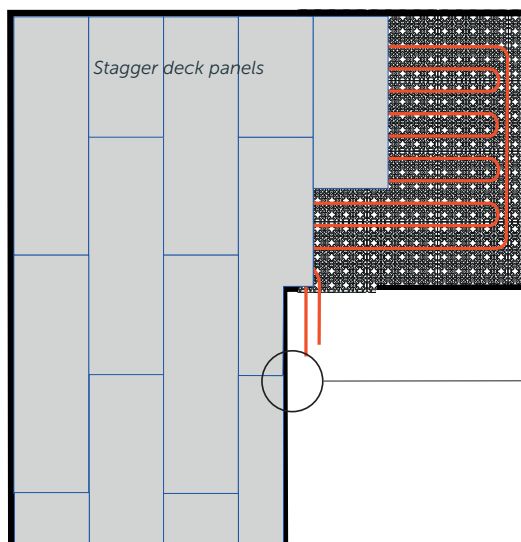


- 3** Run a bead of adhesive (supplied) along the tongue of each panel before it is installed into the groove.

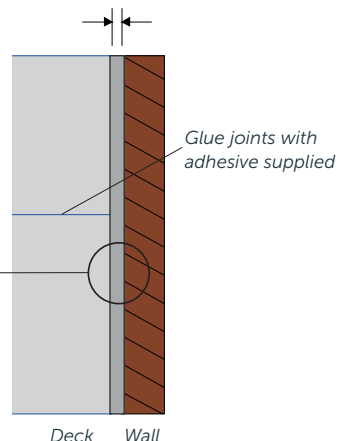


- 4** Cut off any excess panel at the end of the run to use at the beginning of the next row. Lay in a brick-bond pattern with offset joints.

- 5** Fill the entire room with deck.



Where no edge isolation strip is present, leave a 10mm expansion gap between the deck and wall



The deck should be installed with the joints staggered and glued.

Note: Wear PPE gloves and a mask when cutting laminated gypsum board, as the foil has sharp edges and generates dust when cut.

