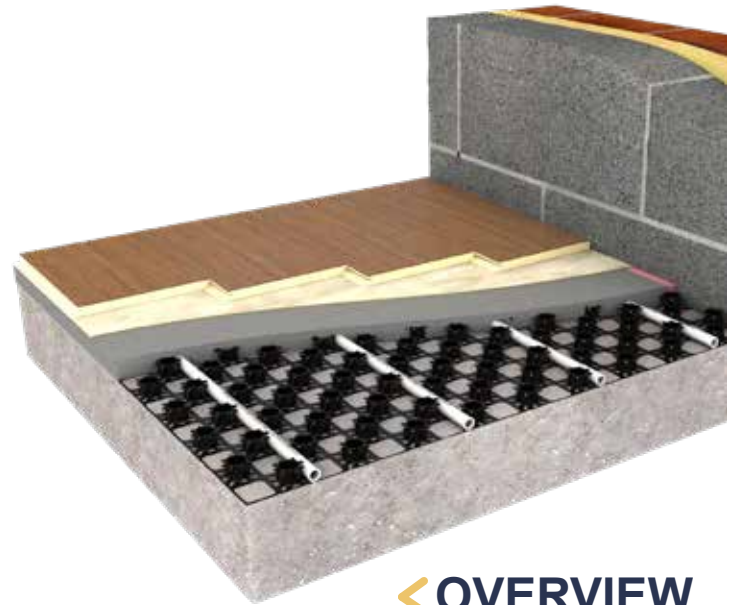




Screed - Profix Plus Floor Construction - FC1F

KEY BENEFITS >>>

- > Very low profile screed solution
- > High outputs with low water temperatures ideal for heat pumps
- > Ideal for new build or retrofit projects
- > Independently tested self-adhesive interlocking panels for fast and secure installation
- > Pipework can be installed either in a serpentine or snail pattern
- > Pipe centre spacings at 50mm increments (150mm, 200mm etc.)



< OVERVIEW

The Profix™ PLUS panel is our latest pipe retention panel designed for use with warm water underfloor heating systems incorporating 16mm diameter pipe.

Made from 100% recycled plastic, the 20mm thick self-adhesive backed panels provide a fast-fix floor heating solution for both suspended timber floors and solid floors.

Each 1200mm x 600mm x 20mm panel features special pipe retention clips which hold the pipe securely in place, together with purpose made locking features which fasten the panels together.

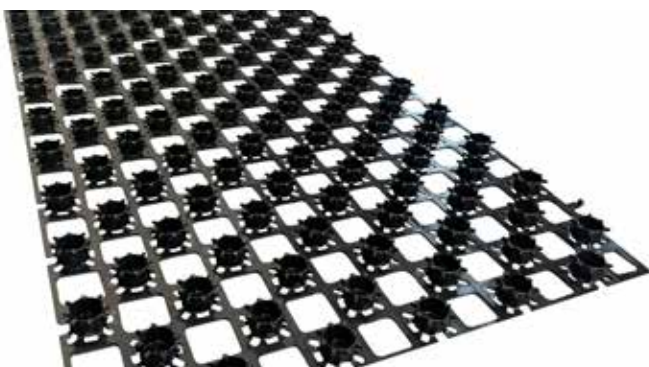
The Profix™ PLUS Pipe in Screed System combines the Profix™ PLUS panel with either a cement-based or anhydrite (gypsum-based) flowing screed

The independently tested self-adhesive backed interlocking pipe retention panels enable rapid installation of 16mm diameter pipe in either serpentine or snail pattern with pipe centres starting at 50mm and increasing in 50mm increments (100mm, 150mm etc...). to create a high heat output, fast response floor heating solution (as thin as 20mm) even at low water temperatures, making it an ideal solution with heat pumps.

PRODUCT LIST >

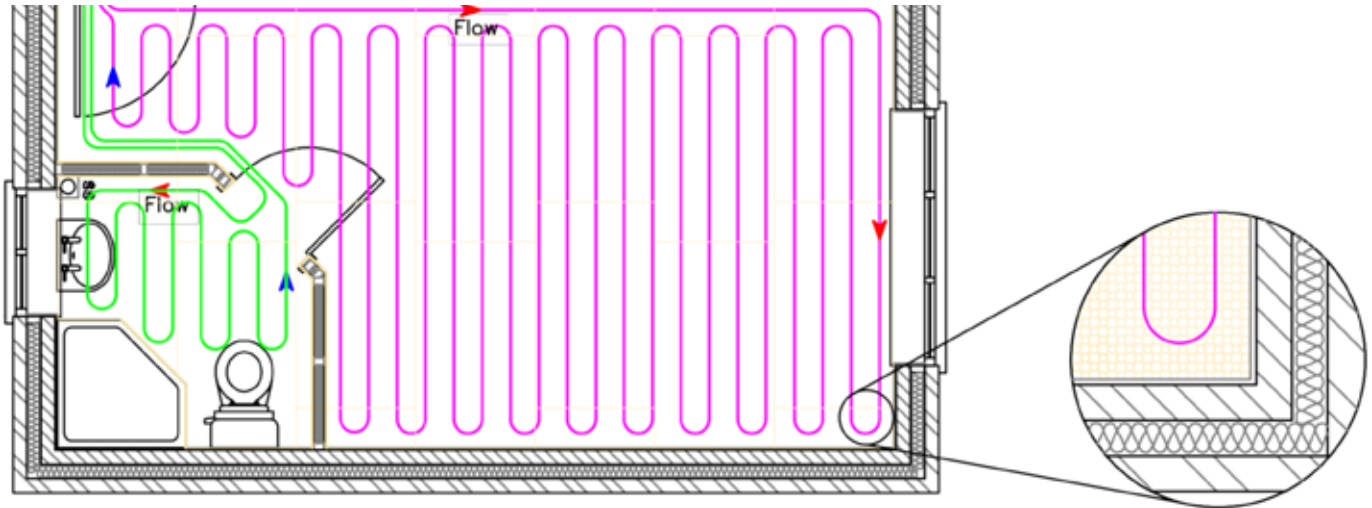
Profix+

SIZE	QTY	PRODUCT CODE
Profix Plus 20mm (1200x600x20mm)	1	PROFIXPLUS
Profix Edge Strip	1	PROEDGE



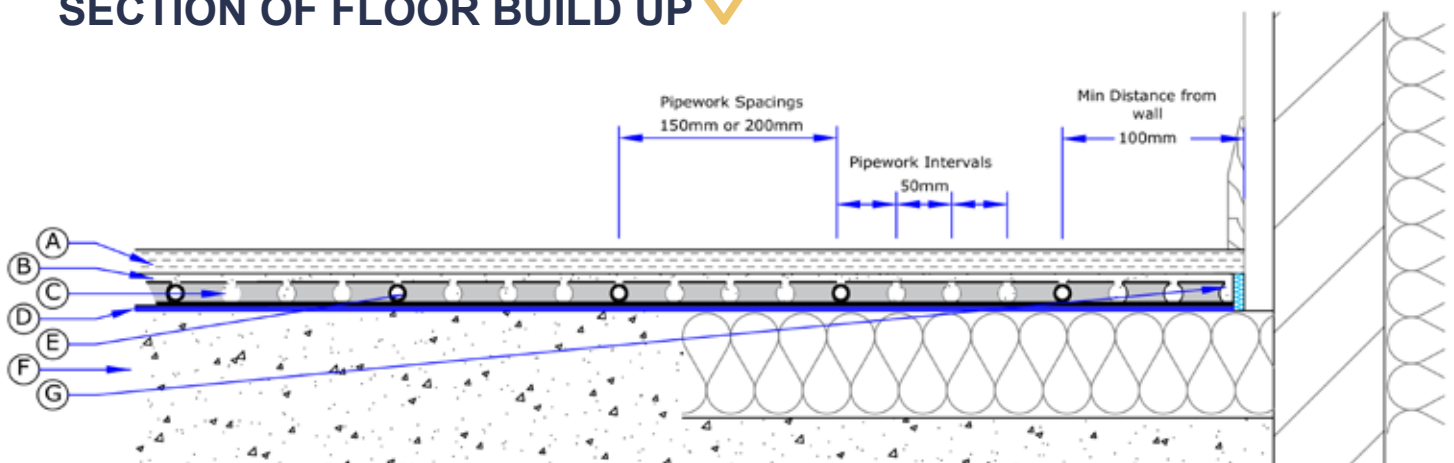


Screen - Profix Plus Floor Construction - FC1F



PLAN VIEW 

SECTION OF FLOOR BUILD UP 



- A > Floor Finish.**
- B > Screed** - Minimum depths depend on substructure and floor finish (see data sheet for further information).
- C > ProfixPLUS Panel** - Self Adhesive interlocking panel (1200x600x20mm) Pipe c/c's at 50mm intervals
- D > Protective Vapour Layer** - It is essential to prevent the screed from slipping between the insulation board joints. This can be achieved by taping the joints of the insulation or alternatively using a polythene membrane (In addition to builders DPM).
- E > UFH Pipe** - Lux Pert-Al-Pert or FlexiPex 16mm Heating Pipework laid at 150/200mm c/c's as specified in quotation and laid approximately 100mm away from walls.
- F > Floor Substructure** - Various depending on project build.
- G > Edge Insulation** - with self adhesive backing must be positioned around all wall edges to reduce heat loss and take up screed expansion.



Screen - Profix Plus Floor Construction - FC1F

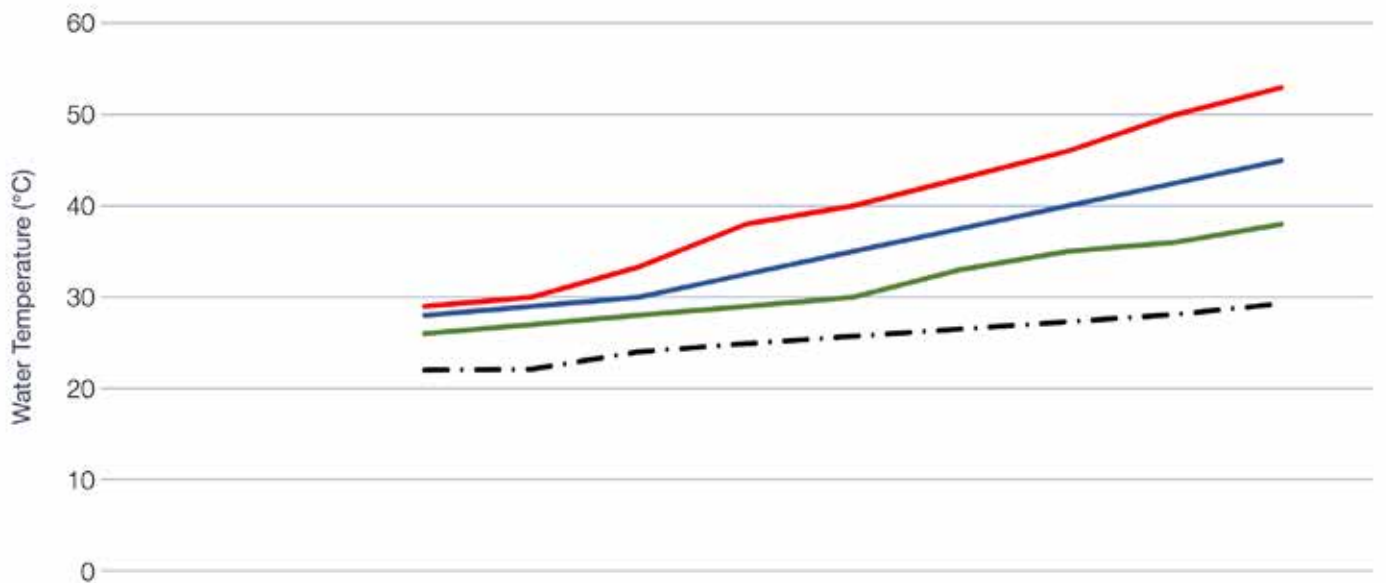
OUTPUTS/WATER TEMPERATURES >

The available output of the system will vary depending on the overall resistance of the floor finish. The table below is for guidance only and actual outputs and temperatures may vary slightly.

FLOOR FINISHES >

The table below summarises acceptable thermal resistance for typical floor finished adhering to the BS EN 1264 Part 2. Tog value is a textile industry measure of thermal resistance 1 tog = 0.10m² K/W

Heat output / Flow water Temperature (ProFixPLUS)



	Output w/m ²										
	20	30	40	50	60	70	80	90	100		
— Tile / Stone	26	27	28	29	30	33	35	36	38	Water Temp (°C)	
— Laminate / Vinyl	28	29	30	33	35	38	40	43	45		
— Carpet	29	30	33.3	38	40	43	46	50	53		
— Floor Temp	22	22	24	25	26	27	27	28	29		



Screed - Profix Plus Floor Construction - FC1F

MINIMUM SCREED THICKNESS >

The minimum screed thickness is determined by three factors, the screed type, what the ProfixPLUS panel is being laid on top of, and the final floor covering.

Screed Type - The screed must be a flowing Cement or Anhydrate based screed if a low profile thickness is required.

Sub-floor (Solid) - To achieve the lowest possible floor height the ProfixPLUS panel needs to be installed onto sound, solid concrete or screed floor. It is possible to install the system on top of timber floors with floor boards, ply or chipboard deck. It is vital that the floor is checked by a structural engineer to make sure that the joists can take the extra weight of the new screed. It is also important that all floors are sealed so the flowing screed doesn't escape through crevasses.

Sub-floor (Insulation) - The panel can be installed on to an extruded insulation panel as per a traditional solid screed floor build up.

The specification of ridged insulation must be minimum 140kPa @ 10% compression.

Floor Finish - See the table below to establish the screed thickness with different floor coverings.

Cement Based Flowing Screed ✓

Floor Finish	Sub-floor (Solid)	Sub-floor (Insulation)
	Screed Thickness	Screed Thickness
Engineered Wooden Floor (min 14mm Thickness)	20mm	30mm
Tiles - Porcelain, ceramic, and natural stone etc.	20mm	30mm
LVT - Luxury Vinyl Tile	25mm	30mm
Wood Laminate	25mm	30mm
Carpet & Underlay	25mm	30mm

Anhydrate Based Flowing Screed ✓

Floor Finish	Sub-floor (Solid)	Sub-floor (Insulation)
	Screed Thickness	Screed Thickness
Engineered Wooden Floor (min 14mm Thickness)	25mm	35mm
Tiles - Porcelain, ceramic, and natural stone etc.	25mm	35mm
LVT - Luxury Vinyl Tile	30mm	35mm
Wood Laminate	30mm	35mm
Carpet & Underlay	30mm	35mm