



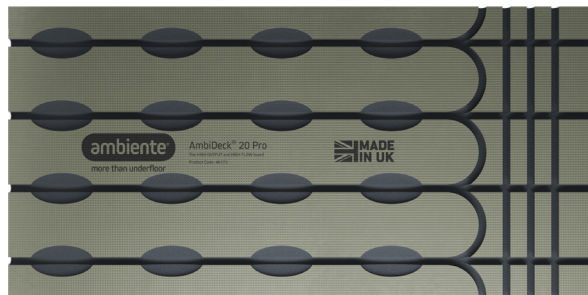


# PRODUCT INTRODUCTION

This product is a unique combination of a low-profile Underfloor Heating system, which can be tiled directly onto, and a layer of thermal insulation.

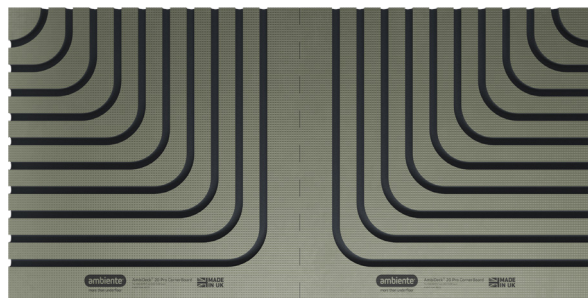
It is critical that the installation guide is followed exactly to avoid potential future damage to floor finishes.

Regardless of the type of sub-floor, it is critical that it is both flat and level. As the system is low-profile, there is no scope to 'lose' any imperfections in the floor within the boards themselves. Undulations and imperfections in the floor surface will likely cause challenges in laying the floor coverings.



## AMBIDECK® 20 PRO PANEL

1200 x 600 mm x 20 mm (L,W,H)  
Product Code: 46173



## AMBIDECK® 20 PRO CORNER PANEL

1200 x 600 mm x 20 mm (L,W,H)  
Product Code: 46175



## AMBIDECK® 20 PRO HIGHWAY PANEL

1200 x 600 mm x 20 mm (L,W,H)  
Product Code: 46174

The AmbiDeck® 20 Pro system really does give the best of both worlds – it provides a low-profile Underfloor Heating system, which incorporates an insulation layer and can be tiled directly onto. AmbiDeck® 20 Pro consists of a high-density XPS insulation panel, 20 mm thick.

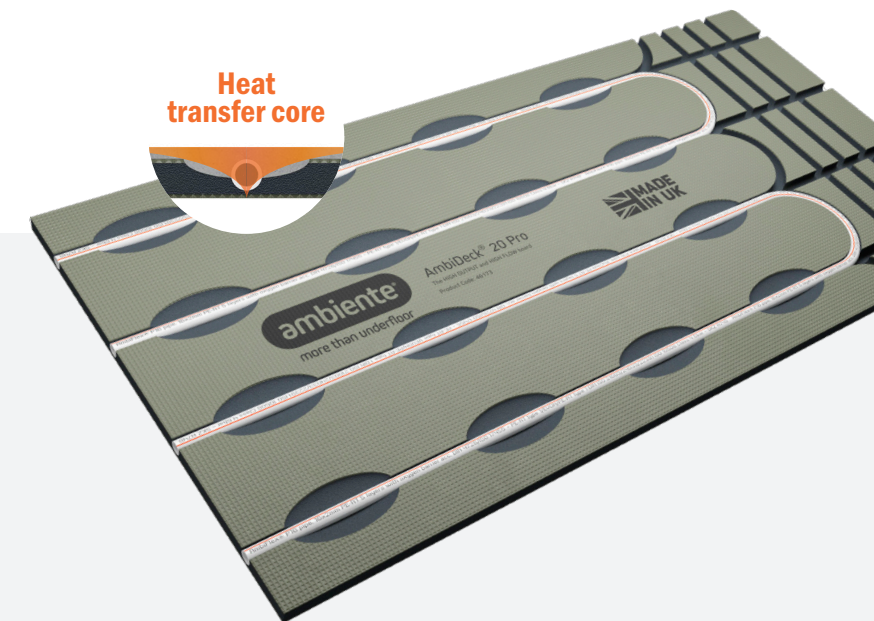
The face of the panel is cement-coated, making it rigid and durable. It is grooved to take 16 mm UFH pipework, with a 150 mm radius return grooved into each panel, making the panel universal. Additional pipework channels can easily be routed/grooved into the panel.

**For more product information, don't hesitate to contact our team of specialists**

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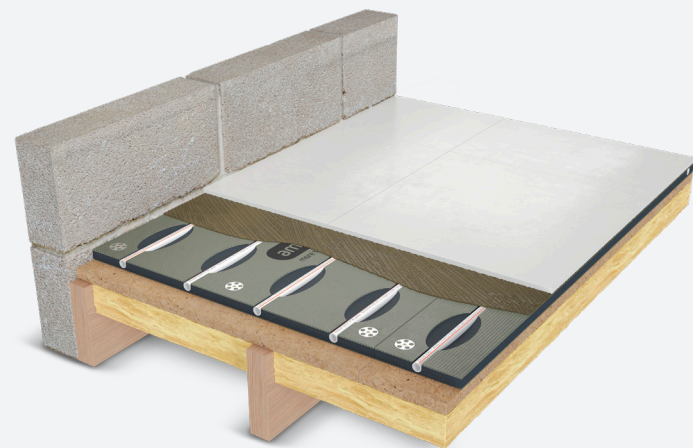


TIMBER SUBFLOOR

Call us on 01707 649 118

CONCRETE SUBFLOOR

For more info email [sales@ambienteufh.co.uk](mailto:sales@ambienteufh.co.uk)



When fitting the AmbiDeck® 20 Pro over a structural timber floor, the boards should be laid over the entire floor area. Boards are fixed directly to the timber deck with AmbiDeck® 20 Pro washers and screws.

We recommend using a minimum number of 9 fixings per board to ensure a firm fixing prior to tiling, more fixings should be added as required. The panels are universal, with radius return bends on one end.

See the steps below to show the configuration of the boards;



When fitting the AmbiDeck® 20 Pro over a structural concrete floor, the boards should be laid over the entire floor area. If required, the floor will need levelling with suitable latex prior to the boards being laid.

Boards are adhered to the concrete floor using a combed bed of flexible tiling adhesive. If the surface of the floor is dusty or inconsistent, we recommend using a tiling primer to seal the surface first.

STEP 1

Ensure the working area is swept, clean and stable. The floor should be flat and level.

STEP 2

Lay the AmbiDeck® 20 Pro panels down across the entire area, ensuring the radius return falls in the correct place at the end of each room.

STEP 3

Fix the AmbiDeck® 20 Pro panels down with a minimum of 9 - 12 specialist screws and washers per panel. More fixings should be added where required.

STEP 4

Fit the UFH pipework down into the panels, following the pipework layout on the UFH design supplied.

STEP 5

Tiling can be laid directly over the system - we recommend priming the boards with a tiling primer, as well as filling any gaps with flexible tiling adhesive. If laying carpet/vinyl/wooden floor, we recommend a minimum of 6 mm levelling compound over the top of AmbiDeck® 20 Pro.

COMPATIBLE WITH



STEP 1

Ensure the working area is swept, clean and stable. Concrete surfaces should be primed for best adhesion. The floor should be flat and level.

STEP 2

Lay a combed and even bed of flexible tiling adhesive across the area prior to laying the AmbiDeck® 20 panels.

STEP 3

Lay the AmbiDeck® 20 Pro panels down across the entire area, making sure that the radius return falls in the correct place at the end of each room. Wait for the adhesive to dry prior to proceeding with the next step.

STEP 4

Fit the UFH pipework down into the panels, following the pipework layout on the UFH design supplied.

STEP 5

Tiling can be laid directly over the system - we recommend priming the boards with a tiling primer, as well as filling any gaps with flexible tiling adhesive. If laying carpet/vinyl/wooden floor, we recommend a minimum of 6 mm levelling compound over the top of AmbiDeck® 20 Pro.

COMPATIBLE WITH





TECHNICAL DATA

Panel thickness	20 mm
Pipe centres	150 mm
Pipe channel diameter	16 mm
Compressive strength	300 kPa
Thermal conductivity	0.031 W/m²k
Fire performance	Euro class E

COMPARISON TABLE

Characteristic	AmbiDeck® 18	AmbiDeck® 20 Pro
20% increased output	✗	✓
16 mm high flow pipe	✗	✓
10% increased thermal insulation	✗	✓
Unique lozenge panel design	✗	✓
Straights, corners and highway panel family	✓	✓
Uses recycled carbon	✗	✓

OUTPUT DATA

Mean water temperature (°C)	Pipe diameter (mm)	Pipe spacing (mm)	Output W/m² (0 tog/tile)	Output W/m² (0.5 tog/vinyl)	Output W/m² (1.5 tog/carpet)
35	16	150	70	59	40
40	16	150	93	76	52
45	16	150	110	88	60

OUTPUTS AT 20°C ROOM TEMPERATURE

PIPE LOOP LENGTHS

Pipe diameter (mm)	Maximum pipe length per loop (m)	Maximum loop area (based on 150 mm centres)
16	120	18 m²

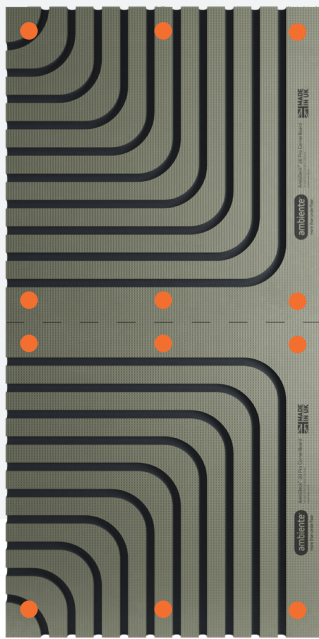
MINIMUM BOARD PIPE FIXING LOCATIONS PER PANEL TYPE



AMBIDECK® 20 PRO PANEL



Thin build up - 20 mm



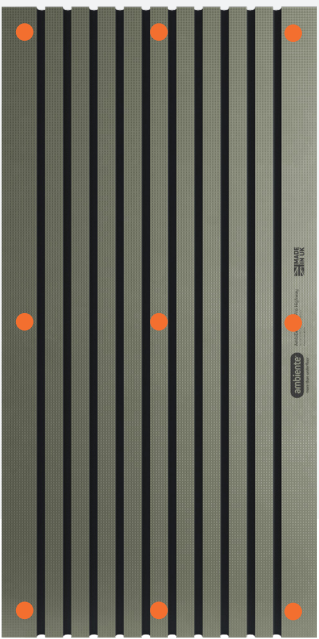
AMBIDECK® 20 PRO CORNER PANEL



High output unique Lozenge shaped board design = +10% output



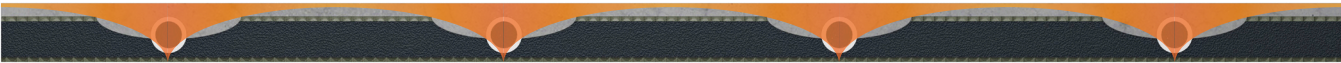
High thermal insulation material (+10% thermal value) over the traditional AmbiDeck® models



AMBIDECK® 20 PRO HIGHWAY PANEL



High Flow - 16 mm pipe



UNIQUE THERMAL DISTRIBUTION

The AmbiDeck® 20 Pro, unique lozenge shaped profile allows the levelling compound to surround the pipe giving greater output by +10%.



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**ambiente**

more than underfloor