



System overview

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. AmbiDeck® 20 Pro consists of a high-density XPS insulation panel that is 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.

Benefits

- Thin build-up = 20 mm.
- High output unique Lozenge-shaped board design = +10% output.
- High thermal insulation material (+10% thermal value) over the traditional AmbiDeck® models.
- High flow 16 mm pipe.

AmbiFibre levelling compound

AmbiDeck® 20 Pro must be laid onto a flat and level subfloor, which can be concrete or timber-based. Over a concrete floor, we recommend applying the AmbiDeck® 20 Pro panels over a combed layer of flexible tiling adhesive. Over a timber floor, we recommend securing the panels down with a minimum of 9 screws using the AmbiDeck® washers.

Tiling can be laid directly over the system - we recommend priming the boards with a tiling primer and 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.



Technical data

Panel thickness	20 mm
Pipe centres	150 mm
Pipe channel diameter	16 mm
Compressive strength	300 kPa
Thermal conductivity	0.031 W/m ² k
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/m ² (0 tog/tile)	Output W/m ² (0.5 tog/vinyl)	Output W/m ² (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 m ²

Component	Product	Code	Quantities required
	AmbiDeck® 20 Pro Panels	46173	1200 x 600 x 20 mm (L,W,H)
	AmbiDeck® 20 Pro Highway panels	46175	1200 x 600 x 20 mm (L,W,H)
	AmbiDeck® 20 Pro Cornerboard	46174	1200 x 600 x 20 mm (L,W,H)
	AmbiDeck® screws	46192	One box per 30 m ²
	AmbiDeck® washers	46195	One bag per 15 m ²
	AmbiFibre Pro levelling compound - 20 kg	47520	1.7 kg per mm per m ² – e.g. 1.7 kg x 6 mm = 1 m ² of 6 mm thickness finished product