

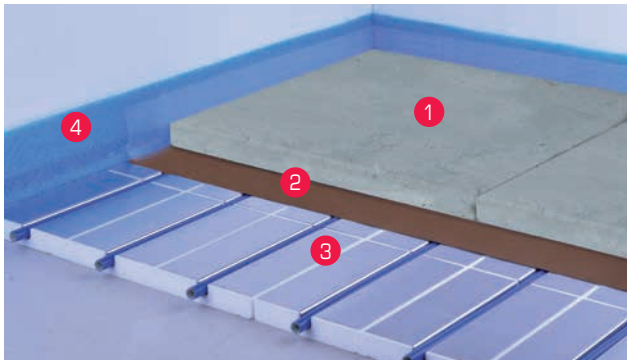
## Floor installation

CompactFloor® EXPERT 20



### Basic installation

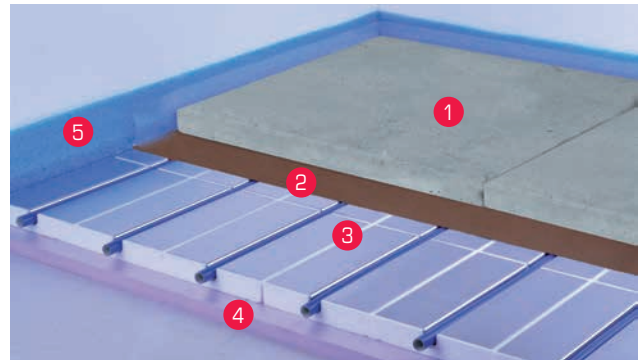
Advisable for upper floors and for lower installation heights



1	CompactFloor® EXPERT 20	20 mm
2	Separating foil	
3	QuickTherm system panel & MVR heating pipe	30 mm
4	Edge insulation strips	
Total installation height approx.		≥ 50 mm

### Extended installation with additional insulation

Advisable for the ground floor or cellar and for larger installation heights



1	CompactFloor® EXPERT 20	20 mm
2	Separating foil	
3	QuickTherm system panel & MVR heating pipe	30 mm
4	Additional insulation	≥ 20 mm
5	Edge insulation strips	
Total installation height approx.		≥ 70 mm

### Suitable floor coverings



Technical data	Basic installation	Extended installation
Heating circuit length	ø 80 – 90 m (~ 15 m²)   max. 110 m	
Additional heat insulation	20 – 100 mm XPS DEO (e. g. Styrodur)	
Weight	46 kg / m² (without floor covering)	
Surface load   Point load	5,0 kN / m²   4,0 kN	2,0 kN / m²   2,0 kN
Minimum thermal conductivity resistance R	≥ 0,75 m²K / W ✓ DIN EN 1264: Floors in mezzanine floors	≥ 1,25 m²K / W ✓ DIN EN 1264: Floors on ground floors / cellars

### Important information

Base requirements (acc. DIN 18202 table 3, line 4)	Bases must be level, stable and able to take a load. Unevenness > 3 mm at 1 m length must be compensated.
Compensation of unevenness (according to degree of unevenness)	0 – 10 mm: Floor levelling paste 10 – 50 mm: Floor levelling paste, thin screed, dry filling From 40 mm: Bound filling, light concrete
Special aspects	Suitable for large-format tiles up to 1.20 x 1.20 m

## Performance table

Floor covering	Room temperature	Heating water temperature							
		30°C		35°C		40°C		45°C	
		W / m <sup>2</sup>	ST	W / m <sup>2</sup>	ST	W / m <sup>2</sup>	ST	W / m <sup>2</sup>	ST
Floor covering R <sub>λ,B</sub> = 0,00 m <sup>2</sup> K / W <b>Tiles</b>	20 °C	62.4	25.8	94.8	28.8	126.9	31.7	158.9	34.7
	24 °C	35.9	27.3	68.9	30.4	101.2	33.4	133.3	36.3
Floor covering R <sub>λ,B</sub> = 0,05 m <sup>2</sup> K / W <b>Laminate, needle punched flooring, PVC flooring</b>	20 °C	45.2	24.2	68.6	26.4	91.9	28.5	115.1	30.7
	24 °C	26.0	26.4	49.9	28.6	73.3	30.8	96.5	32.9
Floor covering R <sub>λ,B</sub> = 0,10 m <sup>2</sup> K / W <b>Carpet</b>	20 °C	35.5	23.3	53.9	25.0	72.1	26.7	90.3	28.4
	24 °C	20.4	25.9	39.2	27.6	57.5	29.3	75.8	31.0
Floor covering R <sub>λ,B</sub> = 0,15 m <sup>2</sup> K / W <b>Ready-made parquet, wooden floor boards</b>	20 °C	29.2	22.7	44.3	24.1	59.4	25.5	74.4	26.9
	24 °C	16.8	25.6	32.3	27.0	47.4	28.4	62.4	29.8

W / m<sup>2</sup> – system heating output  
ST – surface temperature

## Laying



## Sample laying plan

