

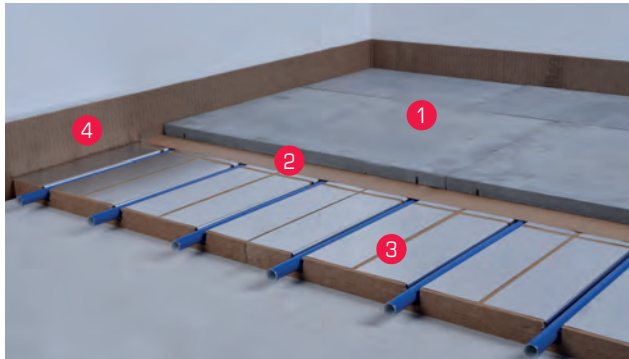
Floor installation

CompactFloor® EXPERT 20



Basic installation

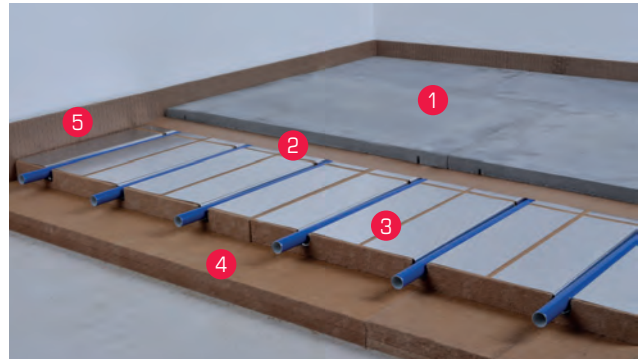
Advisable for upper floors and for lower installation heights



1	CompactFloor® EXPERT 20	20 mm
2	Separating foil	
3	GreenLine 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	GreenLine system panel + MVR heating pipe	30 mm
4	Additional insulation	30 mm
5	Edge insulation strips	
Total installation height approx.		80 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 wood fibre insulation ≥ 150 kPa	
Weight	50 – 57 kg / m² (without floor covering)	
Surface load Point load	3.0 kN / m² 2,0 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

Wichtige Informationen

Anforderungen Untergrund (gem. DIN 18202 Tab.3, Zeile 4)	Bases must be level, stable and able to take a load. Unevenness > 3 mm at 1 m length must be compensated.
Ausgleich Unebenheiten (nach Grad der Unebenheiten)	0 – 10 mm: Floor levelling paste 10 – 50 mm: Floor levelling paste, thin screed, dry filling from 40 mm: Bulk filling, light concrete
Besonderheiten	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 ²	ST	W / m ²	ST	W / m ²	ST	W / m ²	ST
Floor covering $R_{\lambda,B} = 0.00 \text{ m}^2 \text{ K} / \text{W}$ Tiles	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 $R_{\lambda,B} = 0.05 \text{ m}^2 \text{ K} / \text{W}$ Laminate, needle punched flooring, PVC flooring	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 $R_{\lambda,B} = 0.10 \text{ m}^2 \text{ K} / \text{W}$ Carpet	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 $R_{\lambda,B} = 0.15 \text{ m}^2 \text{ K} / \text{W}$ Ready-made parquet, wooden floor boards	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 / m² – System heating output
ST – Surface temperature

Installation



Sample laying plan

