

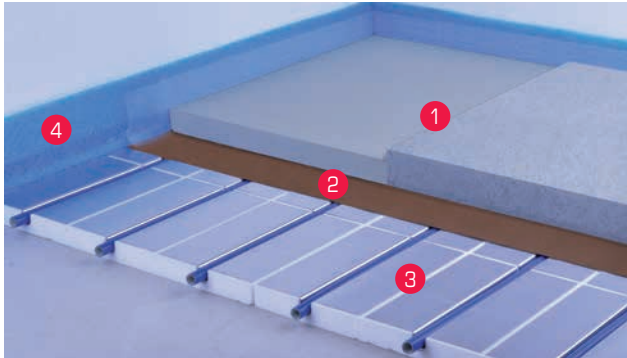
## Floor installation

Floating screed / cement screed



### Basic installation

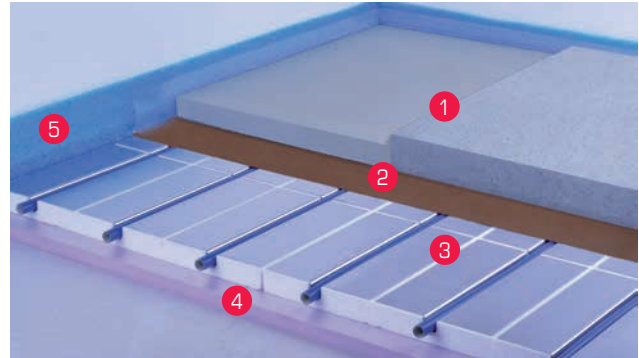
Advisable for upper floors and for lower installation heights



1	Floating screed / cement screed	35 / 45 mm
2	Separating foil	
3	QuickTherm system panel & MVR heating pipe	30 mm
4	Edge insulation strips with foil tab	
Total installation height approx.		≥ 65 / 75 mm

### Extended installation with additional insulation

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



1	Floating screed / cement screed	35 / 45 mm
2	Separating foil	
3	QuickTherm system panel & MVR heating pipe	30 mm
4	Additional insulation	≥ 20 mm
5	Edge insulation strips with foil tab	
Total installation height approx.		≥ 85 / 95 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	Footfall sound insulation (e.g. EPS DES) or heat insulation (e. g. PUR, EPS DE0) max. compressibility: 5mm	
Weight	75 / 95 kg / m² (without floor covering)	
Surface load   Point load	2.0 kN / m²   1.0 kN	2.0 kN / m²   1.0 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

Special aspects	A footfall sound improvement of ≥ 26 dB is achieved with the use of footfall sound heat insulation ESP DES 20-2.
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## Performance table \*

Bodenbelag	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 $R_{\lambda,B} = 0.00 \text{ m}^2 \text{ K} / \text{W}$ <b>Tiles, PVC design floor covering</b>	20 °C	54.5	25.0	82.7	27.7	110.7	30.2	138.6	32.8
	24 °C	31.3	26.9	60.1	29.6	88.3	32.2	116.3	34.8
Floor covering $R_{\lambda,B} = 0.05 \text{ m}^2 \text{ K} / \text{W}$ <b>Laminate, needle punched flooring</b>	20 °C	40.9	23.8	62.1	25.7	83.1	27.7	104.1	29.6
	24 °C	23.5	26.2	45.1	28.2	66.3	30.1	87.3	32.1
Floor covering $R_{\lambda,B} = 0.10 \text{ m}^2 \text{ K} / \text{W}$ <b>Carpet</b>	20 °C	32.8	23.0	49.7	24.6	66.6	26.2	83.4	27.7
	24 °C	18.9	25.7	36.2	27.3	53.1	28.9	70.0	30.5
Floor covering $R_{\lambda,B} = 0.15 \text{ m}^2 \text{ K} / \text{W}$ <b>Ready-made parquet, wooden floor boards</b>	20 °C	27.3	22.5	41.5	23.8	55.6	25.1	69.6	26.4
	24 °C	15.7	25.5	30.2	26.8	44.3	28.1	58.4	29.4

\* All performance values are around 5 % higher with the use of floating screed.

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

## Laying



## Sample laying plan

