

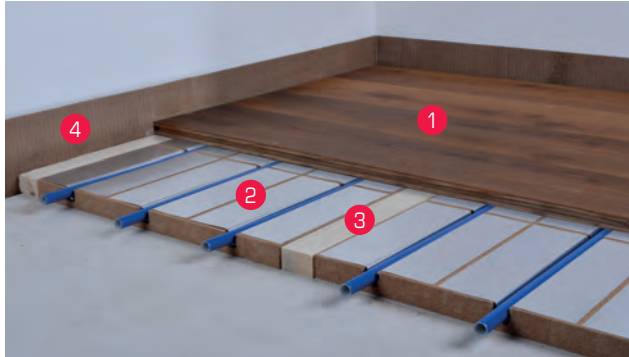
Floor installation

Wooden floor boards (with screws or nails)



Basic installation

Advisable for upper floors and for lower installation heights



1	Wooden floor boards	15 – 22 mm
2	GreenLine system panel + MVR heating pipe	30 mm
3	Sleepers	
4	Edge insulation strips	
Total installation height approx.		45 – 52 mm

Extended installation with additional insulation

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



1	Wooden floor boards	15 – 22 mm
2	GreenLine system panel + MVR heating pipe	30 mm
3	Sleepers	
4	Additional insulation	30 mm
5	Edge insulation strips	
Total installation height approx.		75 – 82 mm

Technical data	Basic installation	Extended installation
Heating circuit length	ø 80 – 90 m (~ 15 m²) max. 110 m	
Additional heat insulation	20 – 60 mm wood fibre insulation ≥ 150 kPa	
Weight	22 – 33 kg / m² (depending on the thickness of the wooden boards)	
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	
Base requirements (accord. 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: Bulk filling, light concrete
Special aspects	Protect wooden floor boards against rising moisture according to the manufacturer's instructions. Choose sleepers according to the manufacturer's instructions. Avoid an air gap between the system panel and boards (boards must be supported).

Performance table *

*The area of the underfloor heating is reduced by the surface ratio of sleepers.

W / m² – System heating output
ST – Surface temperature

Floor covering	Room temperature	Heating water temperature							
		30°C		35°C		40°C		45°C	
		W / m²	ST	W / m²	ST	W / m²	ST	W / m²	ST
Floor covering	20 °C	24.9	22.6	37.8	23.9	50.6	25.2	63.4	26.5
Wooden floor boards on counter battens	24 °C	14.3	25.5	27.5	26.8	40.4	28.2	53.2	29.5