

Thermal Resistance Values

for HARO Quality Flooring

Floor covering / Thickness	Suitable for use with underfloor heating	Thermal resistance
Parquet, 3-layer construction, 11 mm thick	Yes	0.076 m ² K/W
Parquet, 3-layer construction, 12 mm thick	Yes	0.098 m ² K/W
Parquet, 3-layer construction, 13.5 mm thick	Yes	0.110 m ² K/W
Parquet, 2-layer construction, 10 mm thick	Yes	0.076 m ² K/W
Parquet, 2-layer construction, 12 mm thick	Yes	0.090 m ² K/W
Parquet Carré, 16 mm thick	Yes	0.140 m ² K/W
parkettmanufaktur XL, 18 mm thick	No	0.150 m ² K/W
DISANO Classic, 9.3 mm thick incl. cork footfall sound insulation*	Yes	0.063 m ² K/W
DISANO Pro, 2.0 mm thick	Yes	0.010 m ² K/W
CELENIO wood tile, 8 mm thick	Yes	0.052 m ² K/W
CELENIO wood tile, 6.5 mm thick	Yes	0.041 m ² K/W
Laminate floor, 7 mm thick	Yes	0.058 m ² K/W
Laminate floor, 8 mm thick	Yes	0.065 m ² K/W
Laminate floor, 10 mm thick	Yes	0.076 m ² K/W
Cork floor, 11 mm thick incl. cork footfall sound insulation*	Yes	0.103 m ² K/W
Silent ComforTec	Yes	0.040 m ² K/W

* additional insulation underlay not required!

for HARO Insulation Underlays

plus insulation underlay (with floating installation)

Insulation underlays	Suitable for use with underfloor heating	Thermal resistance
COMFORT LINE		
Silent Grip, 1.4 mm thick	Yes	0.010 m ² K/W
Silent Energy DS	Yes	0.004 m ² K/W
Silent Pro DS, 3 mm thick	Yes	0.010 m ² K/W
Silent Pro, 3 mm thick	Yes	0.010 m ² K/W
ECO LINE		
Silent Bio, 1.8 mm thick	Yes	0.034 m ² K/W
Silent Eco DS, 2 mm thick	Yes	0.010 m ² K/W
Silent Eco, 2 mm thick	Yes	0.010 m ² K/W
Corrugated cardboard, 2.5 mm thick	Yes	0.040 m ² K/W
Roll-out cork underlay, 2 mm thick	Yes	0.041 m ² K/W
Woodfibre insulation board, 5 mm thick	No	0.110 m ² K/W
BASIC LINE		
Visco Pro, 2 mm thick	Yes	0.039 m ² K/W
EPS Easy Aquastop, 1.6 mm thick	Yes	0.040 m ² K/W
Quality PE foam 75 kg, 2 mm thick	Yes, underneath laminate	0.040 m ² K/W
Visco Pro DS, 2 mm thick	Yes	0.041 m ² K/W
Duofol PE footfall sound insulation	Yes, underneath laminate	0.044 m ² K/W
Standard PE foam 25 kg, 2 mm thick	Yes, underneath laminate	0.044 m ² K/W

The overall thermal resistance should not exceed approx. 0.15 m² K/W with installation over underfloor heating.