

# 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 <sup>2</sup> K/W
Parquet, 3-layer construction, 12 mm thick	Yes	0.098 m <sup>2</sup> K/W
Parquet, 3-layer construction, 13.5 mm thick	Yes	0.110 m <sup>2</sup> K/W
Parquet, 2-layer construction, 10 mm thick	Yes	0.076 m <sup>2</sup> K/W
Parquet, 2-layer construction, 12 mm thick	Yes	0.090 m <sup>2</sup> K/W
Parquet Carré, 16 mm thick	Yes	0.140 m <sup>2</sup> K/W
parkettmanufaktur XL, 18 mm thick	No	0.150 m <sup>2</sup> K/W
DISANO Classic/DISANO Classic Aqua, 9.3 mm thick incl. cork footfall sound insulation*	Yes	0.063 m <sup>2</sup> K/W
DISANO Life, Dicke 8 mm, 8 mm thick incl. cork footfall sound insulation*	Yes	0.057 m <sup>2</sup> K/W
DISANO Pro, 2.0 mm thick	Yes	0.010 m <sup>2</sup> K/W
CELENIO wood tile, 8 mm thick	Yes	0.052 m <sup>2</sup> K/W
CELENIO wood tile, 6.5 mm thick	Yes	0.041 m <sup>2</sup> K/W
Laminate floor, 7 mm thick	Yes	0.058 m <sup>2</sup> K/W
Laminate floor, 8 mm thick	Yes	0.065 m <sup>2</sup> K/W
Laminate floor, 10 mm thick	Yes	0.076 m <sup>2</sup> K/W
Cork floor, 11 mm thick incl. cork footfall sound insulation*	Yes	0.103 m <sup>2</sup> K/W
Silent ComforTec	Yes	0.040 m <sup>2</sup> 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
<b>COMFORT LINE</b>		
Silent Grip, 1.4 mm thick	Yes	0.010 m <sup>2</sup> K/W
Silent Energy DS	Yes	0.004 m <sup>2</sup> K/W
Silent Pro DS, 3 mm thick	Yes	0.010 m <sup>2</sup> K/W
Silent Pro, 3 mm thick	Yes	0.010 m <sup>2</sup> K/W
<b>ECO LINE</b>		
Silent Bio, 1.8 mm thick	Yes	0.034 m <sup>2</sup> K/W
Silent Eco DS, 2 mm thick	Yes	0.010 m <sup>2</sup> K/W
Silent Eco, 2 mm thick	Yes	0.010 m <sup>2</sup> K/W
Corrugated cardboard, 2.5 mm thick	Yes	0.040 m <sup>2</sup> K/W
Roll-out cork underlay, 2 mm thick	Yes	0.041 m <sup>2</sup> K/W
Woodfibre insulation board, 5 mm thick	No	0.110 m <sup>2</sup> K/W
<b>BASIC LINE</b>		
Visco Pro, 2 mm thick	Yes	0.039 m <sup>2</sup> K/W
EPS Easy Aquastop, 1.6 mm thick	Yes	0.040 m <sup>2</sup> K/W
Quality PE foam 75 kg, 2 mm thick	Yes, underneath laminate	0.040 m <sup>2</sup> K/W
Visco Pro DS, 2 mm thick	Yes	0.041 m <sup>2</sup> K/W
Duofol PE footfall sound insulation	Yes, underneath laminate	0.044 m <sup>2</sup> K/W
Standard PE foam 25 kg, 2 mm thick	Yes, underneath laminate	0.044 m <sup>2</sup> K/W

**The overall thermal resistance should not exceed approx. 0.15 m<sup>2</sup> K/W with installation over underfloor heating.**