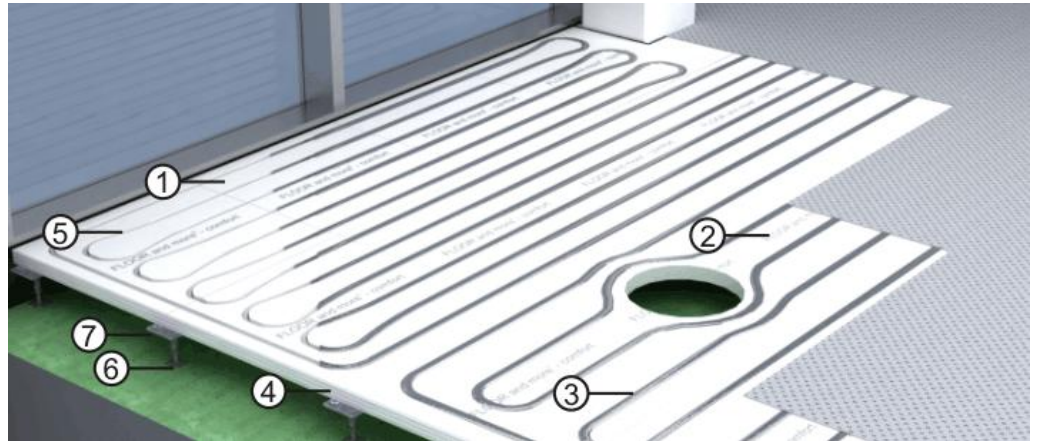


- 1 Panel
- 2 Filling compound
- 3 Joint glue
- 4 Heating and cooling tube
- 5 Pedestal glue
- 6 Pedestal



System description

- **Panel**
Calcium sulphate panel, edges glued together with 2 tongues and grooves, with grooves on the top side for taking-up the plastic tube, subsequently filled up with filling compound, and thin aluminium sheet on bottom side
- **Plastic tube**
PE-X heating tube 14x2 mm, oxygen tight according to DIN 4726, flexible plastic tube
- **Pedestal**
precise height adjustment, galvanized steel, precision threaded rod, non-combustible, various types according to height requirements
- **Gluing**
placing pedestal base in adhesive
- **Wall connection**
pre-compressed foam rubber, as sound barrier and take-up of horizontal movements
- **Subfloor**
a 2-component epoxy-coating is recommended when using the floor as an air plenum
- **Edge**
pedestal spacing 300 mm

Technical data

Tube spacing	100 mm	150 mm
Class (concentrated load) ¹	5 (5 kN)	5 (5 kN)
Heating capacity ²	76 – 102 W/sqm	57 – 73 W/sqm
Cooling capacity ³	39 – 40 W/sqm	31 – 33 W/sqm
Plastic tube		PE, ø14 x 2,0 PE, ø17 x 2,0
Reaction to fire performance ⁴		A2
Fire resistance performance ⁵		REI 30
Weight of system ⁶		62 kg/sqm
Finished floor heights (FFH) ⁷		78 – 800 mm
Panel thickness		40 mm
Pedestal spacing		600 x 600 mm

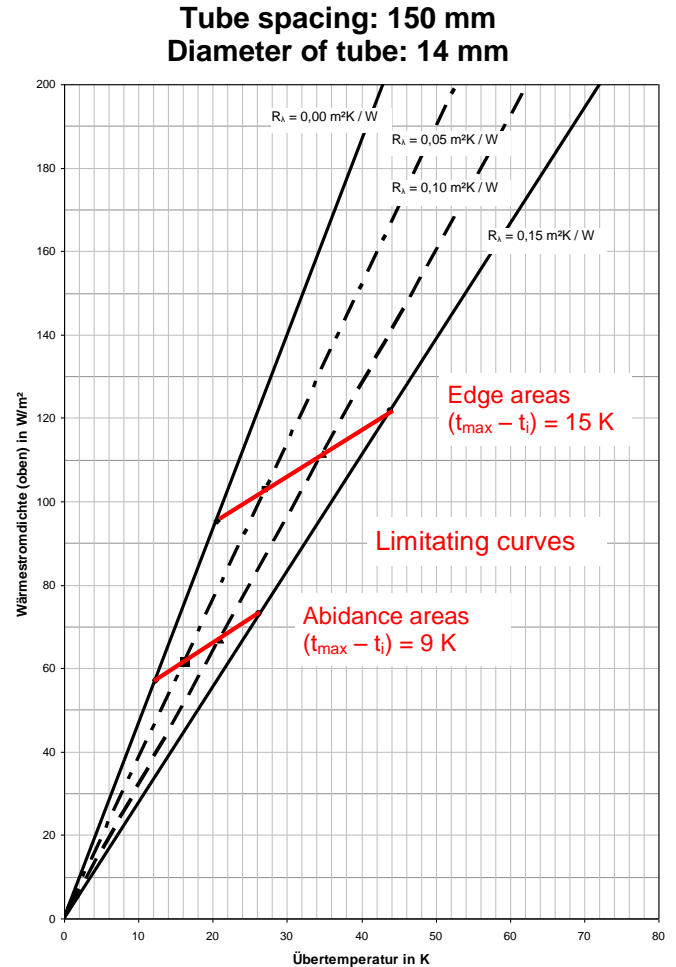
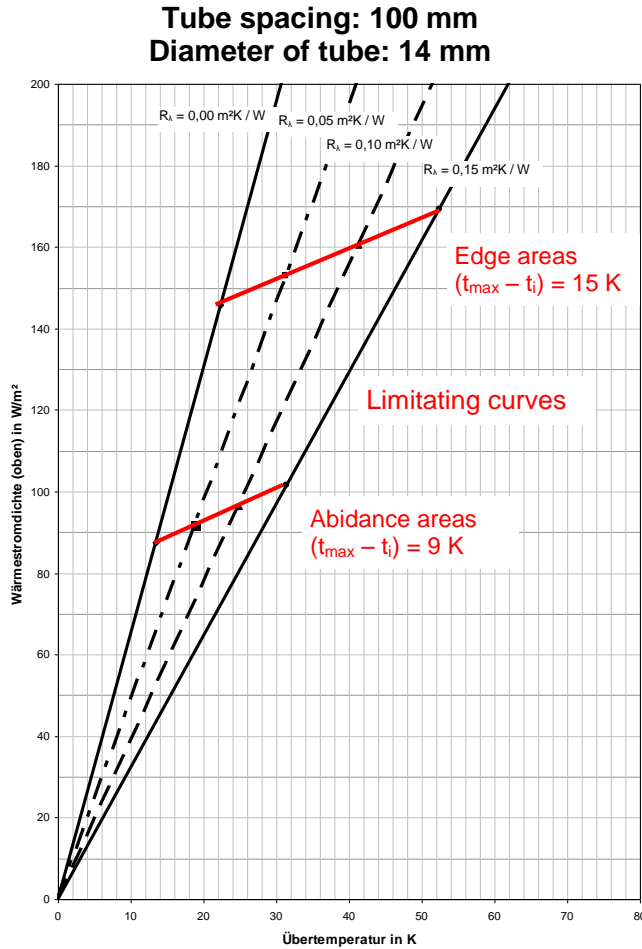
- ¹ acc. to DIN EN 13213 concentrated load in brackets
- ² acc. to DIN EN 1264 T1-T4, $\Delta\vartheta = 12$ K, without covering
- ³ acc. to DIN EN 1264 T5, $\Delta\vartheta = 10$ K, without covering
- ⁴ acc. to DIN 4102, A1 (fully non combustible) acc. to EN 13501
- ⁵ acc. to EN 13501
- ⁶ FFH 150 mm, without covering
- ⁷ Special heights on request
- ⁸ Suitability for underfloor heating presupposed

Application

- Industry and working rooms
- Training and research rooms
- Office and construction areas
- Projects with short building time

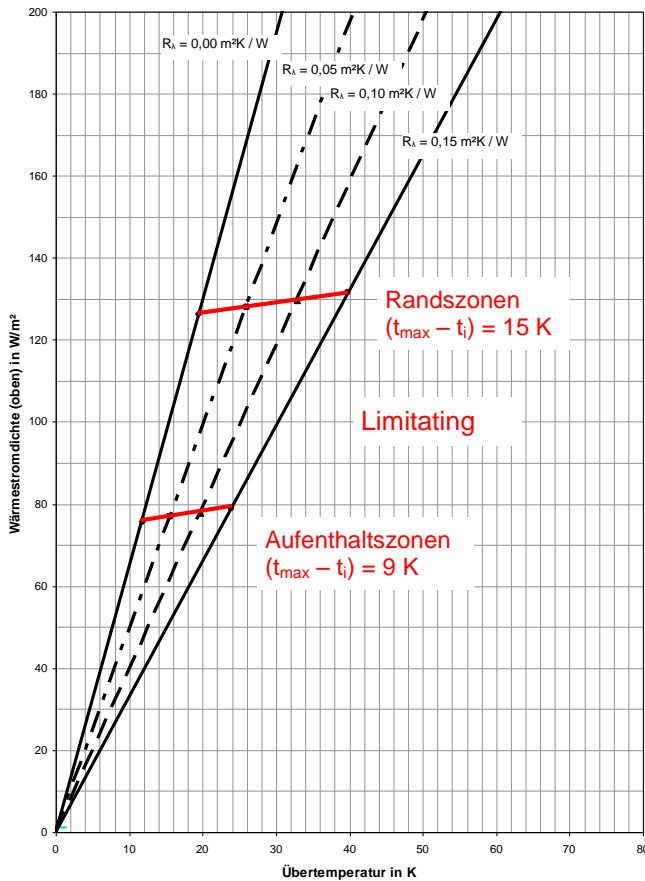
Possible floor coverings ⁸

- Tufting, Velour, Needlefelt
- Ceramic, real stone, artificial stone
- Elastic coverings

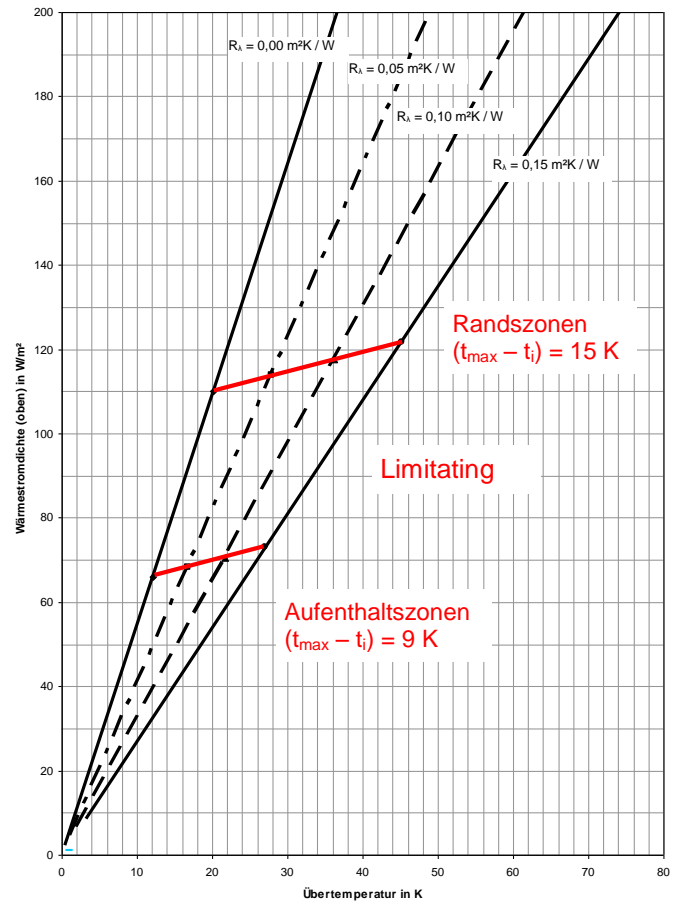
Heating:


Tube spacing	100 mm	150 mm
Heat flow density (without covering):	85 W/m²	56 W/m²
Excessive temperature of heating agent $\Delta\vartheta$ (DIN EN 1264 T1 – T4):	13 K	12 K
Heat conductivity resistance R_{λ} [sqmK/W] (reference values):		
Ceramic tiles		0.00
Parquet		0.05
Carpet thin		0.10
Carpet thick		0.15

**Tube spacing: 100 mm
 Diameter of tube: 17 mm**



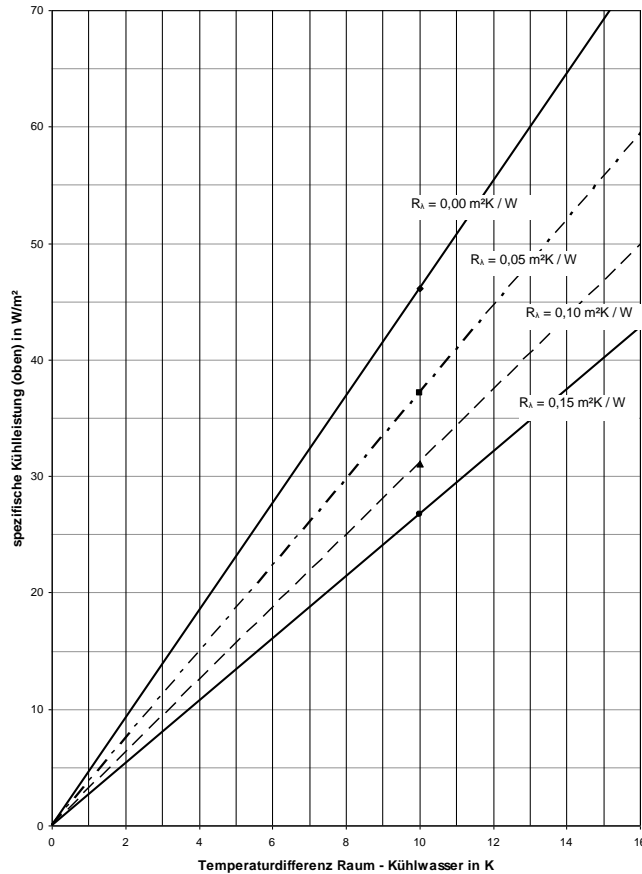
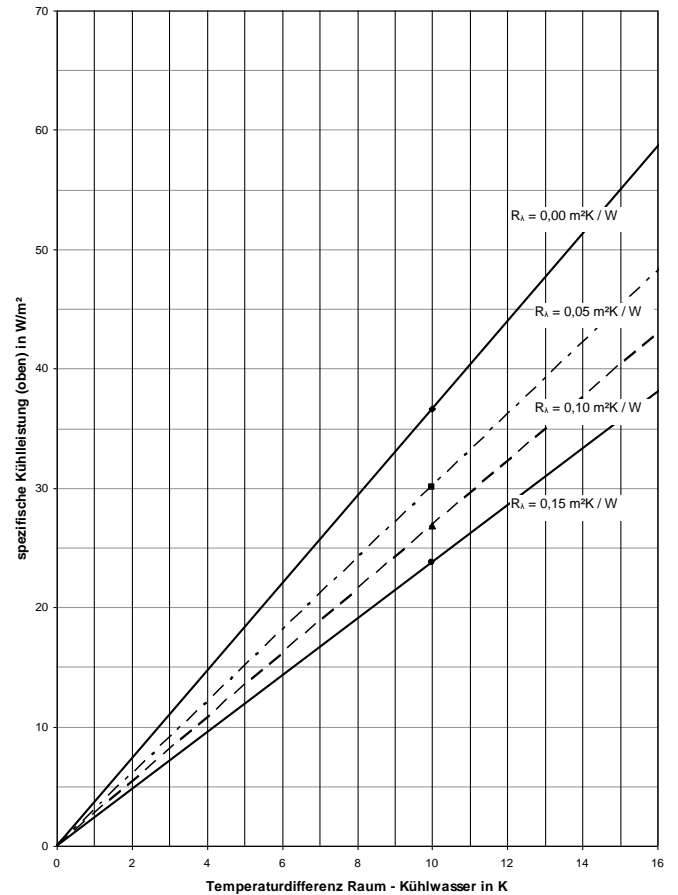
**Tube spacing: 150 mm
 Diameter of tube: 17 mm**



Tube spacing	100 mm	150 mm
Heat flow density (without covering):	76 W/m²	66 W/m²
Excessive temperature of heating agent $\Delta\vartheta$ (DIN EN 1264 T1 - T4):	12 K	12 K

Heat conductivity resistance R_λ [sqmK/W] (reference values):

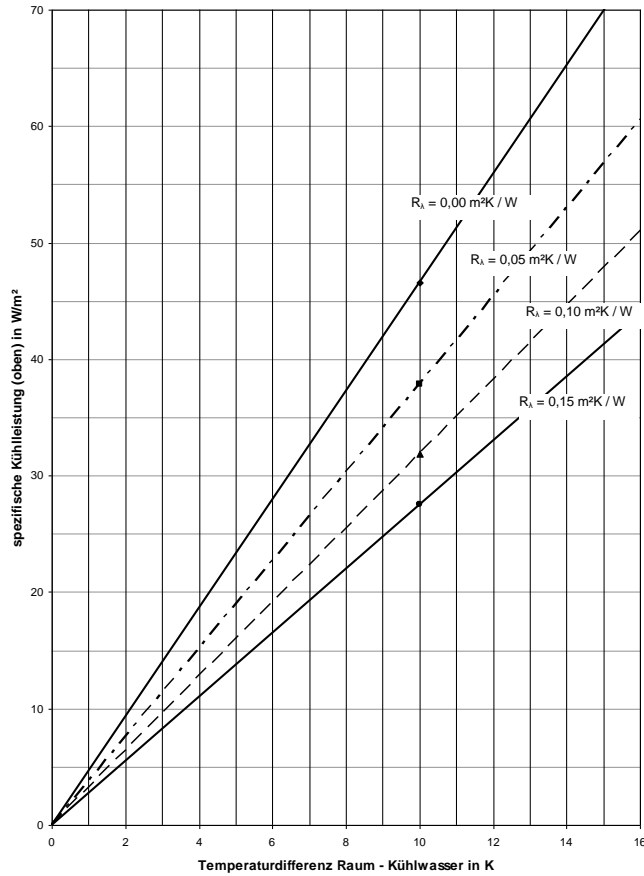
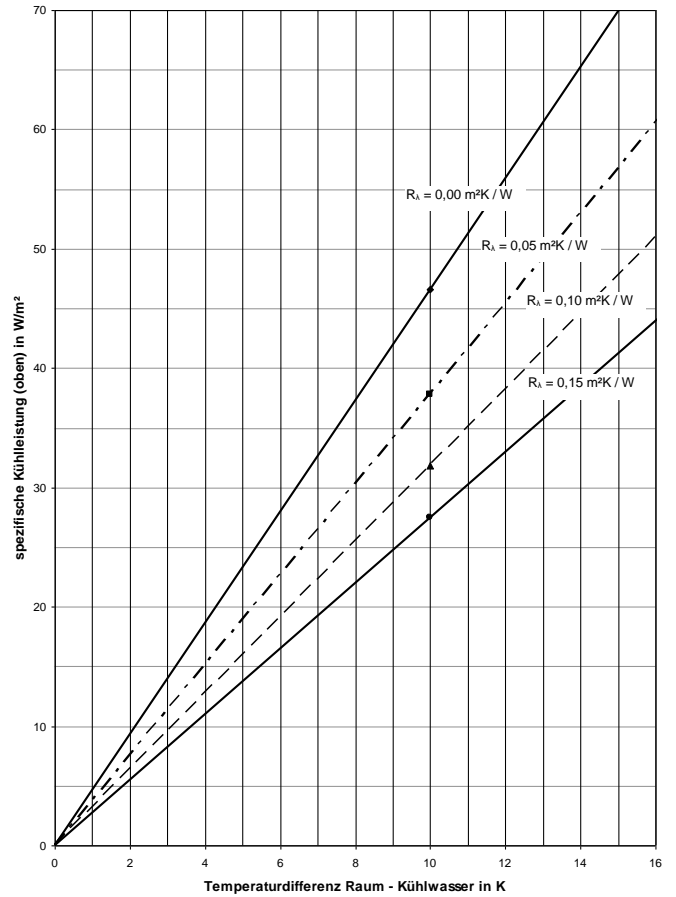
Ceramic tiles	0.00
Parquet	0.05
Carpet thin	0.10
Carpet thick	0.15

Cooling:
**Tube spacing: 100 mm
Diameter of tube: 14 mm**

**Tube spacing: 150 mm
Diameter of tube: 14 mm**


Tube spacing	100 mm	150 mm
Cooling capacity (on top, without covering):	39 W/m ²	31 W/m ²
Insufficient temperature $\Delta\vartheta_H$ (DIN EN 1264 T5):	8,5 K	8,5 K

Heat conductivity resistance R_λ [sqmK/W] (reference values):

Ceramic tiles	0.00
Parquet	0.05
Carpet thin	0.10
Carpet thick	0.15

**Tube spacing: 100 mm
Diameter of tube: 17 mm**

**Tube spacing: 150 mm
Diameter of tube: 17 mm**


Tube spacing	100 mm	150 mm
Cooling capacity (on top, without covering):	40 W/m ²	33 W/m ²
Insufficient temperature $\Delta\vartheta_H$ (DIN EN 1264 T5):	8,5 K	8,5 K

Heat conductivity resistance R_λ [sqmK/W] (reference values):

Ceramic tiles	0.00
Parquet	0.05
Carpet thin	0.10
Carpet thick	0.15