

Cooling emission table

Underfloor pipe Ø 18 x 2.0

According to NEN-EN 1264 previously DIN 4725 and according to the ISSO publication 49 "Quality requirements underfloor cooling"

Oxygen-tight underfloor pipe cooling Ø 18 x 2.0 inner diameter 14 mm

Supply water temperature in °C (medium 100% water)	Room temperature in °C	$\Delta\theta_w$ average bottom temperature in K	Cooling capacity floor cooling in Watt / m ² surface				
			C/C of the pipe distance in mm				
			100	150	200	250	300
16	25	10,5	41	36	32	29	25
16	24	9,5	38	33	30	26	24
16	23	8,5	34	29	26	23	21
16	22	7,5	31	27	24	21	19
16	21	6,5	26	23	21	18	17
16	20	5,5	22	19	18	16	14
16	19	4,5	18	16	14	12	11
16	18	3,5	14	12	11	9	7
17	25	9,5	38	33	30	26	24
17	24	8,5	34	29	26	23	21
17	23	7,5	31	27	24	21	19
17	22	6,5	26	23	21	18	17
17	21	5,5	22	19	18	16	14
17	20	4,5	18	16	14	12	11
17	19	3,5	14	12	11	9	7
17	18	2,5	10	9	8	7	6
18	26	9,5	38	33	30	26	24
18	25	8,5	34	29	26	23	21
18	24	7,5	31	27	24	21	19
18	23	6,5	26	23	21	18	17
18	22	5,5	22	19	18	16	14
18	21	4,5	18	16	14	12	11
18	20	3,5	14	12	11	9	7
18	19	2,5	10	9	8	7	6
19	27	9,5	38	33	30	26	24
19	26	8,5	34	29	26	23	21
19	25	7,5	31	27	24	21	19
19	24	6,5	26	23	21	18	17
19	23	5,5	22	19	18	16	14
19	22	4,5	18	16	14	12	11
19	21	3,5	14	12	11	9	7
19	20	2,5	10	9	8	7	6
20	27	8,5	34	29	26	23	21
20	26	7,5	31	27	24	21	19
20	25	6,5	26	23	21	18	17
20	24	5,5	22	19	18	16	14
20	23	4,5	18	16	14	12	11
20	22	3,5	14	12	11	9	7
20	21	2,5	10	9	8	7	6
Number of meters pipe per m ² surface			10,0 mtr.	6,7 mtr.	5,0 mtr	4,0 mtr.	3,3 mtr.

Correction factors floor finishing (indicative)

Tiles 5 mm thick $R\lambda$ 0,005 (m ² · K) / W	0,99
Linoleum 2,5 mm thick $R\lambda$ 0,014 (m ² · K) / W	0,87
Laminate 10 mm thick dik $R\lambda$ 0,075 (m ² · K) / W	0,82
Parquet 15 mm thick $R\lambda$ 0,08 (m ² · K) / W	0,77

This information is compiled with care. However is not to be excluded that these tables be incomplete or that they contain inaccuracies. Thermanin BV is not liable for any damage or consequential damages arising from the use of this data.