



Heat output table LD-01

System performance with 18mm chipboard deck and floor finish resistances ranging from R=0.00 – 0.15 m² K/W

Mean water temp.	Room temp.	Pipe centres 15.5 cm		Pipe centres 15.5 cm		Pipe centres 15.5 cm		Pipe centres 15.5 cm	
		Chipboard R=0,00 m ² K/W	Surface temp.	Chipboard R=0,05 m ² K/W	Surface temp.	Chipboard R=0,10 m ² K/W	Surface temp.	Chipboard R=0,15 m ² K/W	Surface temp.
θ_m	θ_i	18 mm	θ_F	18 mm	θ_F	18 mm	θ_F	18 mm	θ_F
°C	°C	W/m ²	°C	W/m ²	°C	W/m ²	°C	W/m ²	°C
30	15	46.0	19.4	37.7	18.7	32.0	18.2	27.8	17.8
30	18	34.6	21.4	28.4	20.9	24.1	20.5	20.9	20.2
30	20	26.9	22.7	22.1	22.3	18.7	22.0	16.2	21.7
30	22	19.0	24.0	15.6	23.7	13.2	23.4	11.5	23.3
30	24	16.1	25.7	13.2	25.4	11.2	25.2	9.7	25.1
35	15	64.8	21.1	53.2	20.1	45.1	19.4	39.1	18.8
35	18	53.6	23.1	43.9	22.3	37.3	21.7	32.3	21.2
35	20	46.0	24.4	37.7	23.7	32.0	23.2	27.8	22.8
35	22	38.4	25.8	31.5	25.1	26.7	24.7	23.2	24.4
35	24	30.8	27.1	25.3	26.6	21.4	26.2	18.6	25.9
40	15	83.6	22.6	68.6	21.4	58.1	20.5	50.5	19.8
40	18	72.4	24.7	59.4	23.6	50.3	22.8	43.7	22.2
40	20	64.8	26.1	53.2	25.1	45.1	24.4	39.1	23.8
40	22	57.3	27.4	47.0	26.5	39.9	25.9	34.6	25.4
40	24	49.8	28.8	40.8	28.0	34.6	27.4	30.1	27.0
45	15	102.3	24.2	83.9	22.7	71.2	21.6	61.8	20.8
45	18	91.1	26.3	74.7	24.9	63.4	23.9	55.0	23.2
45	20	83.6	27.6	68.6	26.4	58.1	25.5	50.5	24.8
45	22	76.1	29.0	62.4	27.9	52.9	27.0	45.9	26.4
45	24	68.6	30.4	56.3	29.3	47.7	28.6	41.4	28.0
50	15	121.0	25.7	99.3	23.9	84.2	22.7	73.1	21.8
50	18	109.8	27.8	90.1	26.2	76.4	25.0	66.3	24.2
50	20	102.3	29.2	83.9	27.7	71.2	26.6	61.8	25.8
50	22	94.8	30.6	77.8	29.2	66.0	28.2	57.2	27.4
50	24	87.3	32.0	71.7	30.6	60.8	29.7	52.7	29.0
55	15	139.7	27.2	114.6	25.2	97.2	23.8	84.3	22.7
55	18	128.5	29.3	105.4	27.4	89.4	26.1	77.6	25.1
55	20	121.0	30.7	99.3	28.9	84.2	27.7	73.1	26.8
55	22	113.5	32.1	93.2	30.4	79.0	29.3	68.5	28.4
55	24	106.1	33.5	87.0	31.9	73.8	30.8	64.0	30.0

Maximum surface temperatures BS EN 1264

Room perimeter =< 1m 35°C
Occupied area 29°C
Bathrooms 33°C