



Heat output table LD-02

System performance with 18mm ply 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	
		Plywood R=0,00 m ² K/W	Surface temp.	Plywood R=0,05 m ² K/W	Surface temp.	Plywood R=0,10 m ² K/W	Surface temp.	Plywood R=0,15 m ² K/W	Surface temp.
θ_m	θ_r	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	51.1	19.9	41.1	19.0	34.4	18.4	29.5	18.0
30	18	38.4	21.8	30.9	21.1	25.8	20.6	22.2	20.3
30	20	29.9	23.0	24.0	22.5	20.1	22.1	17.3	21.8
30	22	21.1	24.2	17.0	23.8	14.2	23.5	12.2	23.3
30	24	17.9	25.9	14.4	25.5	12.1	25.3	10.4	25.1
35	15	72.0	21.7	57.9	20.5	48.4	19.6	41.6	19.0
35	18	59.4	23.6	47.8	22.6	40.0	21.9	34.4	21.4
35	20	51.1	24.9	41.1	24.0	34.4	23.4	29.5	23.0
35	22	42.6	26.1	34.3	25.4	28.7	24.9	24.7	24.5
35	24	34.2	27.4	27.5	26.8	23.0	26.4	19.8	26.1
40	15	92.8	23.4	74.6	21.9	62.4	20.9	53.7	20.1
40	18	80.3	25.4	64.6	24.0	54.0	23.1	46.4	22.5
40	20	72.0	26.7	57.9	25.5	48.4	24.6	41.6	24.0
40	22	63.6	28.0	51.2	26.9	42.8	26.2	36.8	25.6
40	24	55.2	29.2	44.5	28.3	37.2	27.7	32.0	27.2
45	15	113.5	25.1	91.4	23.3	76.4	22.0	65.7	21.1
45	18	101.1	27.1	81.3	25.5	68.0	24.3	58.5	23.5
45	20	92.8	28.4	74.6	26.9	62.4	25.9	53.7	25.1
45	22	84.4	29.7	67.9	28.3	56.8	27.4	48.9	26.7
45	24	76.1	31.0	61.2	29.8	51.2	28.9	44.0	28.3
50	15	134.3	26.8	108.0	24.7	90.4	23.2	77.7	22.1
50	18	121.8	28.8	98.0	26.8	82.0	25.5	70.5	24.5
50	20	113.5	30.1	91.4	28.3	76.4	27.0	65.7	26.1
50	22	105.2	31.4	84.7	29.7	70.8	28.6	60.9	27.7
50	24	96.9	32.7	78.0	31.2	65.2	30.1	56.1	29.3
55	15	155.0	28.4	124.7	26.0	104.3	24.4	89.7	23.1
55	18	142.6	30.4	114.7	28.2	96.0	26.7	82.5	25.6
55	20	134.3	31.8	108.0	29.7	90.4	28.2	77.7	27.1
55	22	126.0	33.1	101.4	31.1	84.8	29.7	72.9	28.7
55	24	117.7	34.4	94.7	32.6	79.2	31.3	68.1	30.3

Maximum surface temperatures BS EN 1264

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