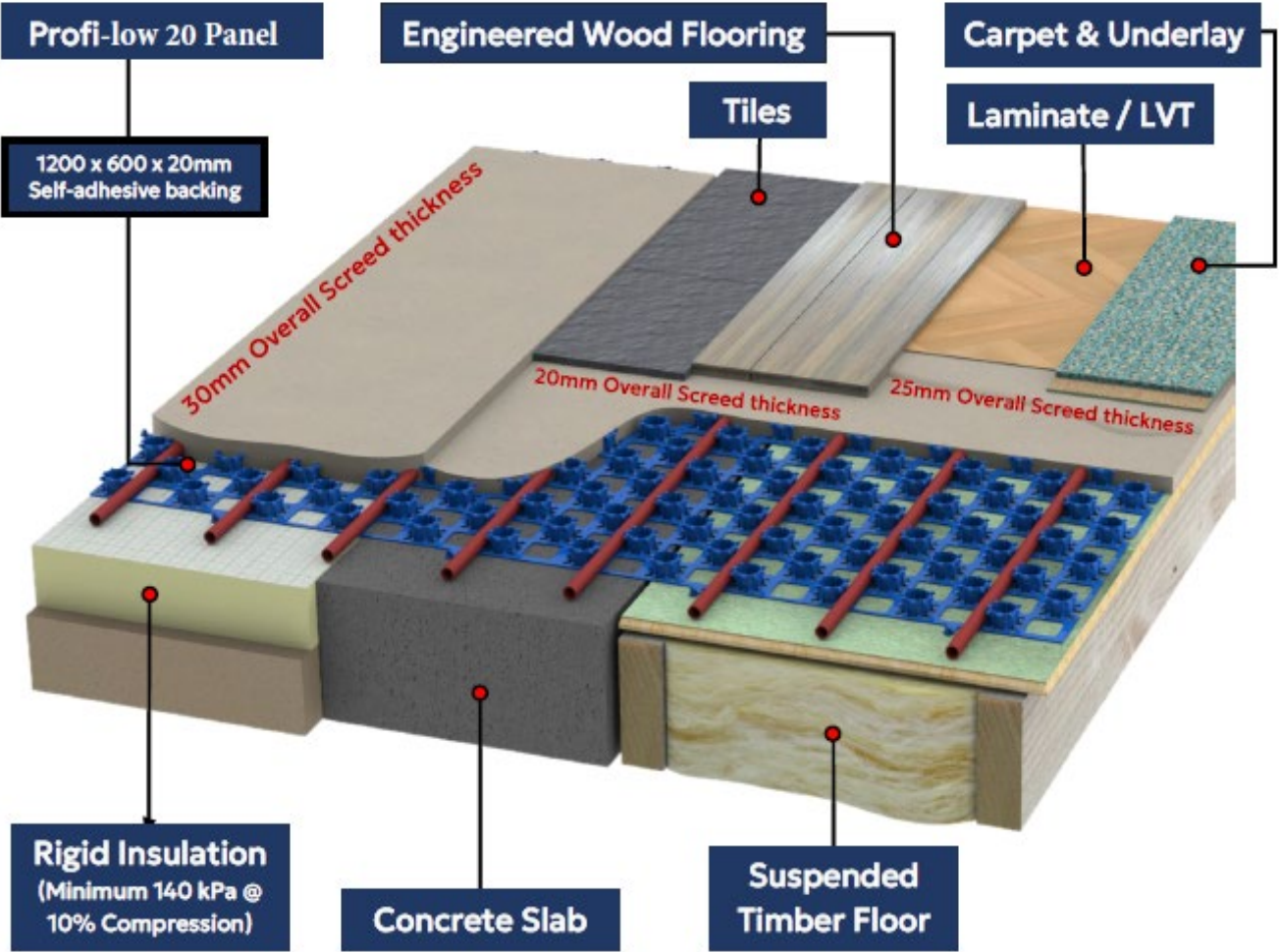


Profi-low 20 Screed



Profi-low 20 is a 20mm low profile panel suitable for Robbens Systems® Underfloor Heating. Panels are self adhesive and are load bearing for Chipboard or screed board floating floors on top. These panels are suitable for new build and retro-fit where room heights are limited. The panels can be installed in several ways as indicated below.



Profi-low 20 Screed



- Dimensions: 1200x600x20mm
- Pipe Type & Size: 16x2mm MLCP or Pe-rt
- Heat Source: Boiler or Heat Pump
- Water temperature: 50°C to 65°C
- Suitable Floor Coverings:
 - Ceramic Tiles
 - Carpets
 - Timber or Laminate flooring minimum 12mm

- Heat Outputs:
 - Chipboard surface 68W/m²
 - Screedboard surface 88W/m²

Heat Output Table

		MEAN WATER TEMPERATURE									
		30°	30°	35°	35°	40°	40°	45°	45°	50°	50°
SYSTEM TYPE	FLOOR COVERING	Heat Output W/m²	Floor Surface Temp °C	Heat Output W/m²	Floor Surface Temp °C	Heat Output W/m²	Floor Surface Temp °C	Heat Output W/m²	Floor Surface Temp °C	Heat Output W/m²	Floor Surface Temp °C
Profix® PLUS Pipe in Flowing Screed	Tiles	62.7	25.8	94.2	28.7	125.5	31.6	156.9	34.5	188.3	37.4
	LVT	52.7	24.9	79.1	27.3	105.5	29.7	131.9	32.2	158.3	34.6
	15mm Engineered Wood	41.7	23.8	62.5	25.7	83.4	27.7	104.3	29.6	125.1	31.5
	Carpet & Underlay (1.5 TOG)	34.5	23.2	51.7	24.7	69.0	26.3	86.2	27.9	103.5	29.5

*For Guidance only - all systems must conform to BS EN 1264

Profix™ PLUS – 16mm O.D. Pipe in 25mm Screed

MWT (°C)	k screed (W/m²K)	pipe centres (mm)	Floor Temp (°C)	Heat output (W/m²)
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0.15 floor covering thermal resistance

30	2.00	100	23.45	37.25
30	2.00	150	23.20	34.51
30	2.00	200	22.91	31.46
30	2.00	250	22.63	28.41
35	2.00	100	25.17	55.88
35	2.00	150	24.79	51.77
35	2.00	200	24.37	47.18
35	2.00	250	23.95	42.61
40	2.00	100	26.90	74.50
40	2.00	150	26.39	69.02
40	2.00	200	25.83	62.91
40	2.00	250	25.26	56.81
45	2.00	100	28.62	93.13
45	2.00	150	27.99	86.28
45	2.00	200	27.28	78.64
45	2.00	250	26.58	71.01
50	2.00	100	30.35	111.76
50	2.00	150	29.59	103.53
50	2.00	200	28.74	94.37
50	2.00	250	27.89	85.22

PROFIX PLUS FINITE ELEMENT ANALYSIS OF FLOOR HEAT OUTPUTS IN ACCORDANCE WITH METHOD STATED IN iso 11855-2:2015

PIPE THERMAL CONDUCTIVITY 0.4 W/mK

SURFACE HEAT TRANSFER COEFFICIENT 10.8 W/m²K

ROOM TEMPERATURE 20°C