

# BAUFOIL: FOIL FACED INSULATION OVERLAY

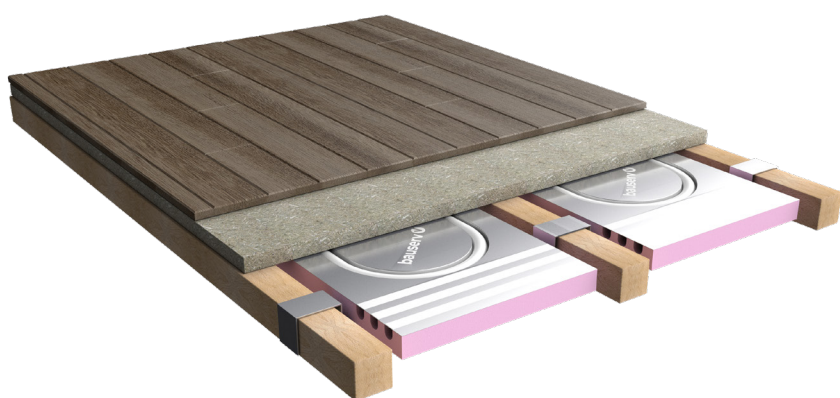


Structural heating panel

## PRODUCT DESCRIPTION

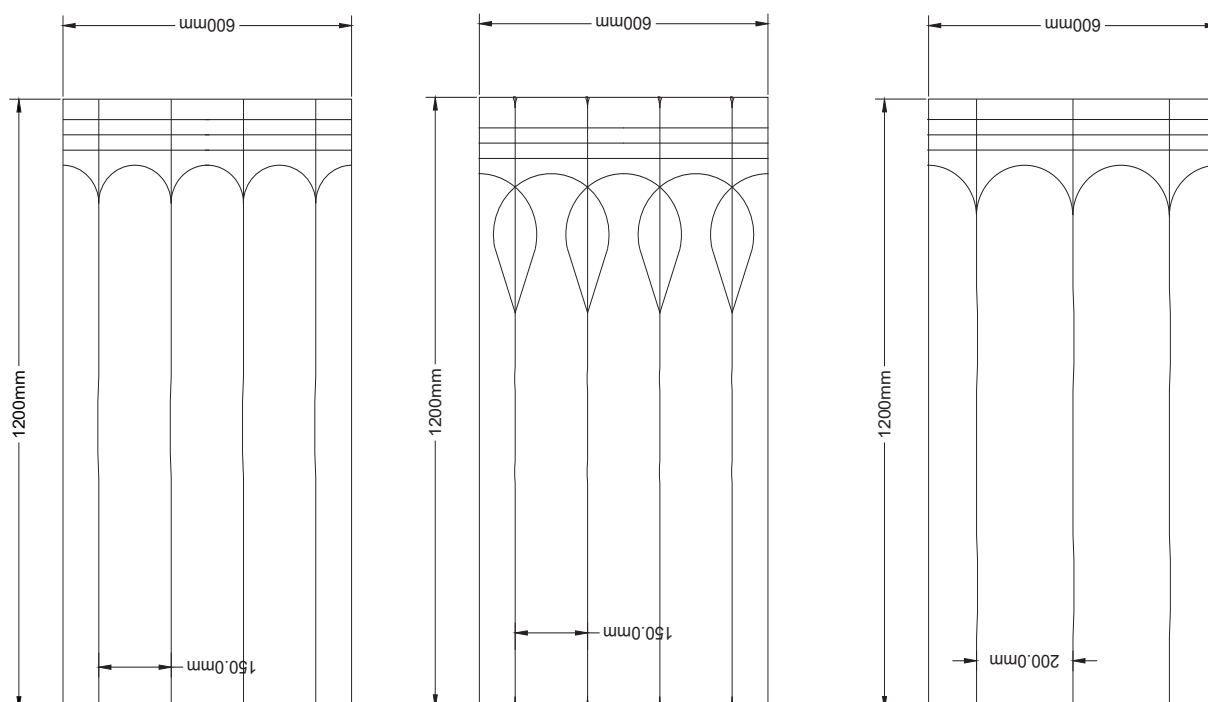
The BAUFOIL panel system forms part of our comprehensive range of underfloor heating panel systems. This low-profile, low weight, adhesive system is ideal for retro-fit, acoustic and new build installation, particularly where floor build-up height and weight is at a premium.

The panel insulation is pre-grooved using high quality engineering tools, a foil layer reflective layer is then heat-adhered to produce an effective, high output underfloor heating panel solution. This can be used with our universal MULITOP product to give a high heat output floor finish with in-built decoupling layer ready to accept carpet, wood or tiles directly or even vinyl with additional preparation work using the RS-FLEX levelling compound in line with the vinyl manufacturers requirements.



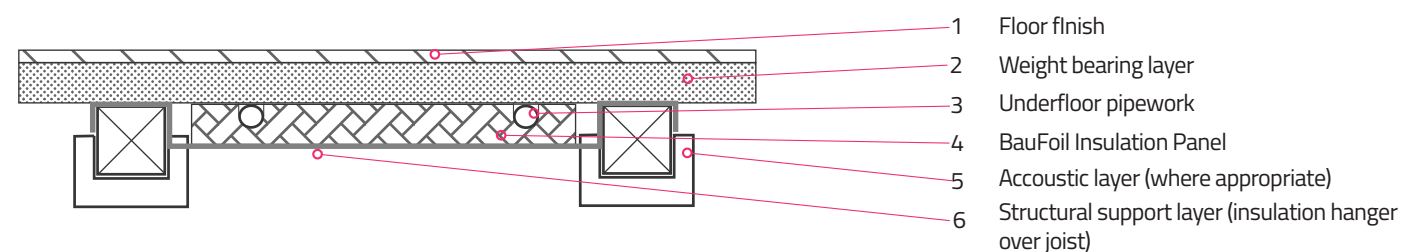
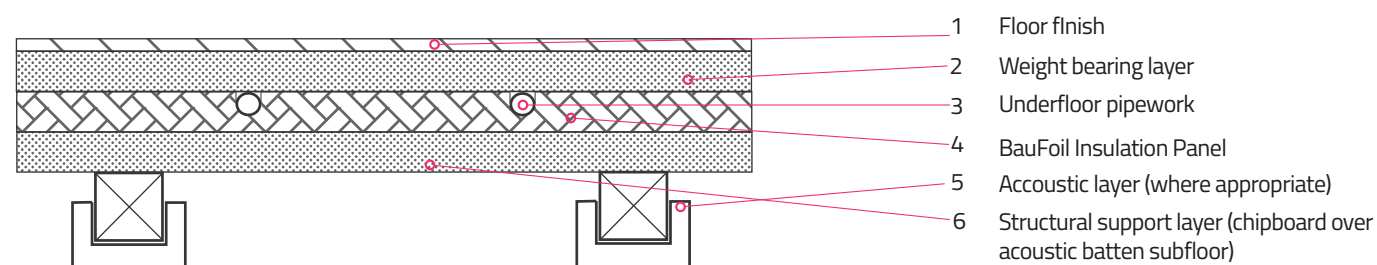
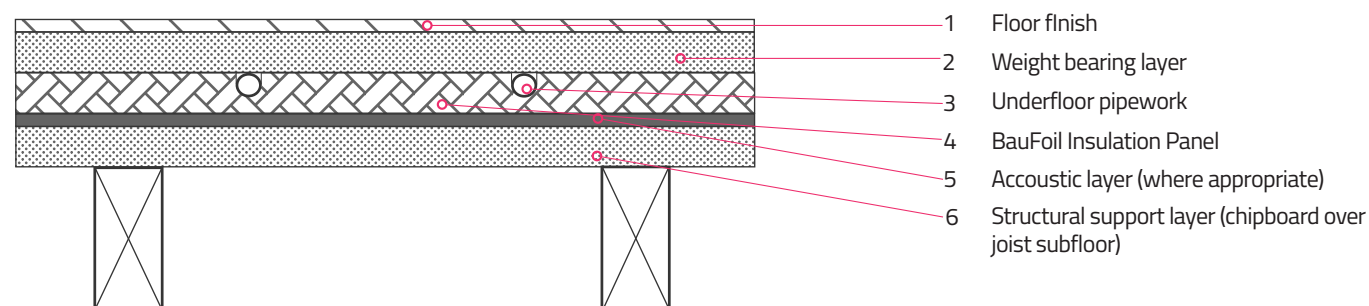
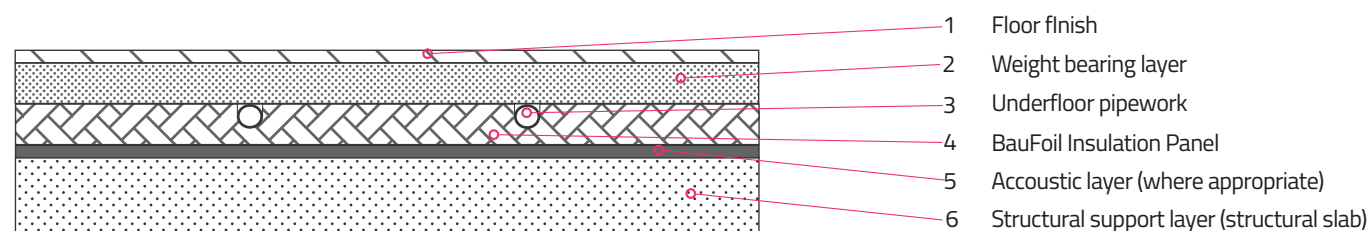
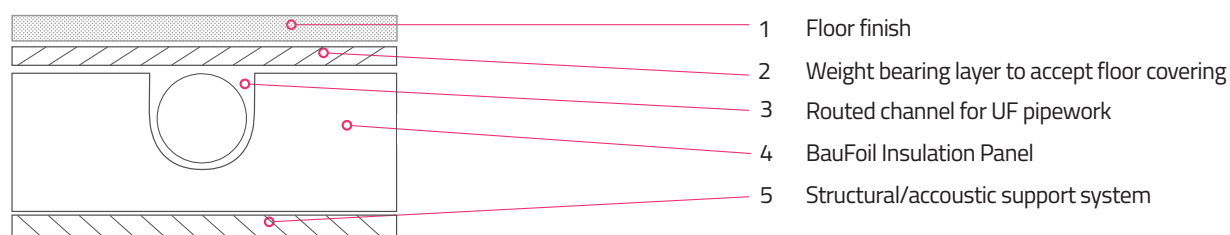
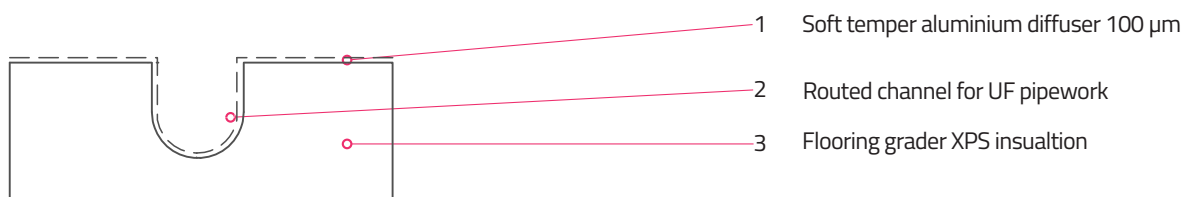
## DIMENSIONS

(Not to scale)



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**PRODUCT SECTIONS**

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**TECHNICAL DATA**

<b>CONSTRUCTION TYPE</b>	<b>BS1264 Type A</b>
<b>WEIGHT BEARING LAYER</b>	Bauserv MultiTOP, floorboard(by others) or BAUTHERM screed
<b>WEIGHT BEARING LAYER THICKNESS</b>	MultiTOP: 0.2 W/mK Screed replacement panel: 0.38 W/mK Chipboard: 0.14 W/mK Screed: 1.4 – 2.3 W/mK
<b>WEIGHT BEARING LAYER CONDUCTIVITY</b>	4mm MultiTOP; 18mm board; 10+ levelling compound; 30mm BAUTHERM screed
<b>THERMAL DIFFUSION LAYER THICKNESS</b>	100 µm in channels, 100 µm on surface
<b>THERMAL DIFFUSION LAYER CONDUCTIVITY</b>	200 W/mK
<b>THERMAL INSULATION TYPE</b>	XPS
<b>THERMAL INSULATION CONDUCTIVITY</b>	0.033 W/mK
<b>THERMAL INSULATION GRADE</b>	200 kPA
<b>ACOUSTIC LAYER</b>	Optional
<b>INSULATION PANEL FIXING</b>	RS-BOND adhesive; screws depending on structural support
<b>STRUCTURAL SUPPORT SYSTEM</b>	Structural floorboards over support system by others Structural timber boards over floor joists by others Structural concrete (slab or beam) by others
<b>PANEL DIMENSION</b>	1200 x 600mm
<b>PANEL AVAILABLE THICKNESS</b>	18, 25, 50mm
<b>SYSTEM WEIGHT</b>	From 2.0 kg/m <sup>2</sup> with water, depending on weight bearing layer
<b>RECYCLABLE</b>	Yes

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**HEATING PERFORMANCE** DRT = 20degC, 1.0 Tog covering per BS1264-3

BauFoil using 4mm 0.16 W/mK MULTITOP

Pipe size	Pipe spacing	Heat output* W/m <sup>2</sup> @ 60/50 1.0 tog	Heat output* W/m <sup>2</sup> @ 55/45 1.0 tog	Heat output* W/m <sup>2</sup> @ 45/38 1.0 tog	Heat output* W/m <sup>2</sup> @ 35/29 1.0 tog
12 x 1.4	150	96	82	58	30
12 x 1.4	200	82	70	50	26
16 x 2	150	99	84	59	31
16 x 2	200	86	73	52	27

\* Heat Outputs:

1. Based on effective heated foil area.
2. Based on design room temperature of 21°C.
3. Shown using a 1.0 TOG default floor covering per BS1264-3.
4. Will increase/decrease depending on the floor covering used.
5. Will vary on final floor construction installed.

BauFoil using 18mm 0.38 W/mK screed replacement panel

Pipe size	Pipe spacing	Heat output* W/m <sup>2</sup> @ 60/50 1.0 tog	Heat output* W/m <sup>2</sup> @ 55/45 1.0 tog	Heat output* W/m <sup>2</sup> @ 45/38 1.0 tog	Heat output* W/m <sup>2</sup> @ 35/29 1.0 tog
12 x 1.4	150	87	74	52	27
12 x 1.4	200	76	65	45	24
16 x 2	150	89	76	54	28
16 x 2	200	78	66	47	24

BauFoil using 18mm 0.13 W/mK chipboard panel

Pipe size	Pipe spacing	Heat output* W/m <sup>2</sup> @ 60/50 1.0 tog	Heat output* W/m <sup>2</sup> @ 55/45 1.0 tog	Heat output* W/m <sup>2</sup> @ 45/38 1.0 tog	Heat output* W/m <sup>2</sup> @ 35/29 1.0 tog
12 x 1.4	150	61	52	36	19
12 x 1.4	200	53	45	32	16
16 x 2	150	63	53	38	20
16 x 2	200	55	46	33	17

BauFoil using 30mm 2.3 W/mK BAUTHERM Screed

Pipe size	Pipe spacing	Heat output* W/m <sup>2</sup> @ 60/50 1.0 tog	Heat output* W/m <sup>2</sup> @ 55/45 1.0 tog	Heat output* W/m <sup>2</sup> @ 45/38 1.0 tog	Heat output* W/m <sup>2</sup> @ 35/29 1.0 tog
12 x 1.4	150	106	90	63	33
12 x 1.4	200	93	79	56	29
16 x 2	150	108	92	65	34
16 x 2	200	95	81	57	30

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