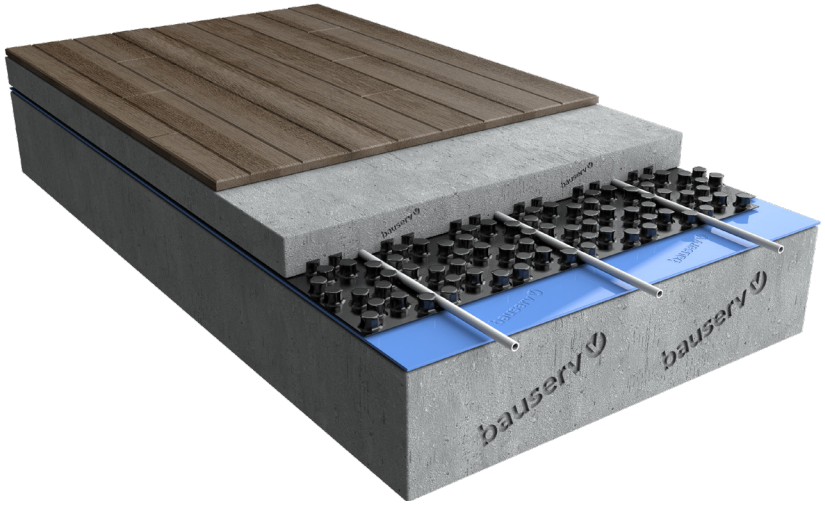
BAUPLATE - LOW SCREED SYSTEM

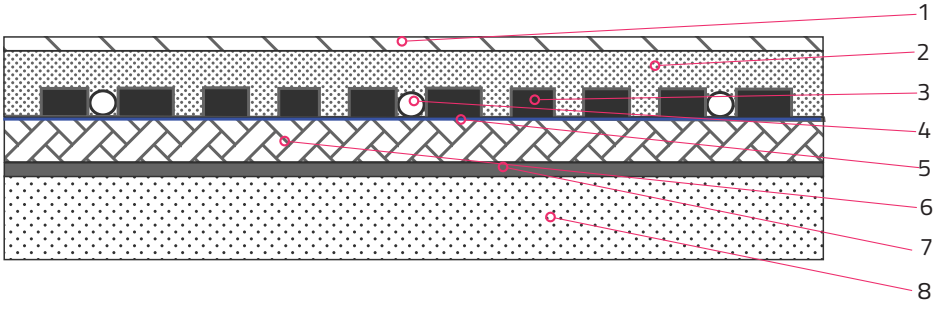
Structural heating panel

PRODUCT DESCRIPTION

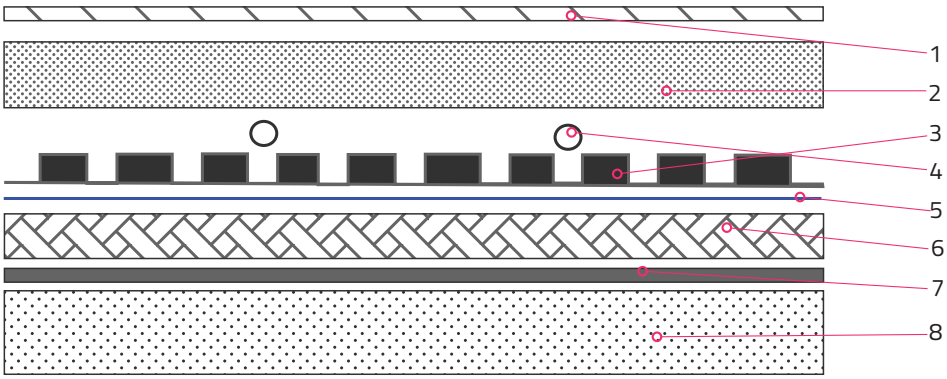
The BauPlate system forms part of our comprehensive range of underfloor heating panel systems. This low height levelling/screed system is cost effective and ideal for new build installation, or where structural floors are being replaced. Castellated floor panels are adhered over insulation fixed to a structural deck and the underfloor heating pipe work is pressed into the panels with the BauFlex levelling or proprietary screed laid over giving a finished floor to accept the floor ready to accept carpet, wood or tiles directly or even vinyl with some preparation work to smooth the screed finish. NOTE if the insulation layer is omitted to save height, the heat output of the floor will reduce 30% or more depending on the structural floor.



PRODUCT SECTIONS



1. Floor flnish
2. Floor screed - weight bearing layer
3. Pipework fixing system
4. Underfloor pipework
5. Moisture membrane (where appropriate)
6. Insulation panel to suit application
7. Acoustic/DPM layer (where appropriate)
8. Structural support layer



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Jump to **HEATING PERFORMANCE**

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TECHNICAL DATA

CONSTRUCTION TYPE	**BS1264 Type A**
WEIGHT BEARING LAYER	BauFlex levelling or proprietary screed
WEIGHT BEARING LAYER THICKNESS	Varies on pipe diameter, castellated panels and screed type Minimum 7mm cover over pipe/panel – RS-FLEX Minimum 25mm cover over pipe/panel – liquid screeds. Minimum 35mm cover over pipe/panel – sand/Cement screeds
WEIGHT BEARING LAYER CONDUCTIVITY	Typically, 1.2 W/mK, up to 2.3 W/mK
PIPE FIXING METHOD	Castellated panels
THERMAL DIFFUSION LAYER THICKNESS	Same weight bearing layer
THERMAL DIFFUSION LAYER CONDUCTIVITY	Same weight bearing layer
THERMAL INSULATION TYPE	To suit application
THERMAL INSULATION CONDUCTIVITY	To suit BS1264-4 or building regulations
THERMAL INSULATION GRADE	To suit application - typically 100kPA or better
THERMAL INSULATION THICKNESS	To suit BS1264-4 or building regulations. Typically min 50mm EPS100 to GF, 25mm EPS100 to FF - fitted directly beneath the pipework.
ACOUSTIC LAYER	Optional
STRUCTURAL LAYER	By others
PANEL DIMENSION	1200 x 600mm
SYSTEM WEIGHT	Varies

HEATING PERFORMANCE

DRT = 21°C, 1.0 Tog covering per BS1264-3

BauPlate

Pipe size	Pipe spacing	Heat output* W/m² @ 60/50 1.0 tog	Heat output* W/m² @ 55/45 1.0 tog	Heat output* W/m² @ 45/38 1.0 tog	Heat output* W/m² @ 35/29 1.0 tog
12 x 1.4	150	98	88	63	31
16 x 2	150	100	90	65	33

* Heat Outputs:
1. are indicative for comparison purposes
2. are based on design room temperature of 21°C
3. are based on effective heated area
4. will vary on foiled area around pipe bends
5. will increase/decrease depending on the floor covering and weight bearing layer used
6. will vary on final floor construction installed.

+44(0)1228 210444 I office@bauserv.co.uk | bauserv.co.uk