

×4

A

BLANKE HEATING AND COOLING SYSTEMS

Highly efficient heating with smart home solutions

blanke-systems.com

UNDERFLOOR HEATING AND COOLING SYSTEMS WITH SMART HOME SOLUTIONS

Efficient heating for a better world

There is no doubt about it: efficient heating has a positive effect on the world's climate. To achieve climate policy objectives, the Federal and State governments of Germany offer financial incentives and subsidies to end-users to support them when making decisions about upgrading their outdated heating systems. Alone in Germany, there are 20 million systems in need of upgrades in order to meet future demands with regard to combating

climate change. Blanke is also doing what it can and is responding to the Federal government's appeal to develop simple, efficient and climate-friendly product solutions. As a consequence, you can look forward to our product portfolio of surface heating systems with control technology. We are also looking towards the future with regard to smart home applications – more information on this topic can be found in this brochure.





BLANKE PERMATOP SF

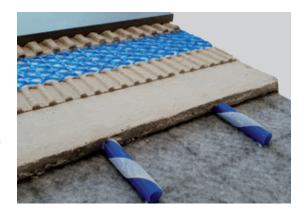
Highly efficient heating for a better world

BLANKE PERMATOP SF

BLANKE PERMATOP SF for tiles and natural stone floor coverings is a modular combination of perfectly matching individual components for use in heating and cooling rooms. It consists of a self-levelling energy distribution layer BLANKE SF FILLER with integrated water-carrying heating and cooling pipework made of a high-quality PE heating pipe, which makes it with Velcro extremely easy to lay onto the self-adhesive fibre fabric mat. The tried-and-trusted Blanke PERMAT decoupling mat rounds off this system to make it suitable for all floor surface coverings.

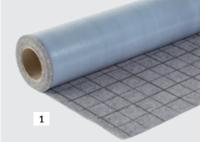
ADVANTAGES AT A GLANCE

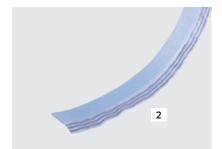
- > Minimal installation height of just 14 mm
- > Fast-reacting
- > Very short drying time quick installation with zero waiting time
- > Easy levelling thanks to the integrated energy distribution layer BLANKE SF FILLER

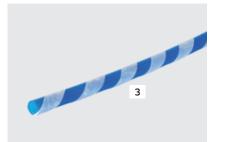


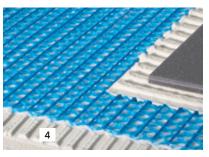
BLANKE PERMATOP SF COMPONENTS

1 BLANKE SF BASE
2 BLANKE RDS 5/50
3 BLANKE SF KLETT-TEC
4 BLANKE PERMAT



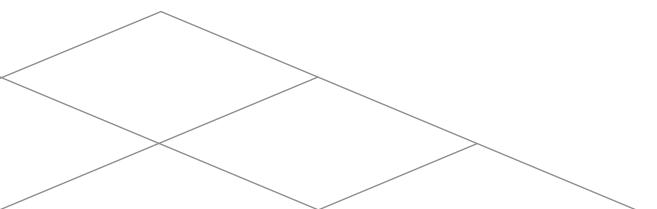






BLANKE PERMATOP BF AND BFC

Underfloor heating and cooling system – quick and easy installation



BLANKE PERMATOP BF

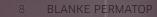
BLANKE PERMATOP BF is a unique, modular, complete underfloor heating system that consists of BLANKE BF BASE, a special polystyrene studded panel for a controlled shrinkage of the screed, and BLANKE BF/C PIPE, a highly flexible, oxygen diffusion tight polyethylene pipe with an internal oxygen barrier layer. The tried-and-trusted BLANKE PERMAT decoupling mat rounds off this system.



BLANKE PERMATOP BFC

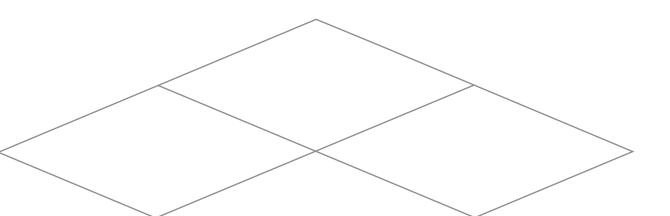
BLANKE PERMATOP BFC is a unique, modular, complete underfloor heating system that consists of BLANKE BF BASE, a special polystyrene studded panel for a controlled shrinkage of the screed, and BLANKE BF/C PIPE, a highly flexible, oxygen diffusion tight polyethylene pipe with an internal oxygen barrier layer. In addition, the studded panel also comes with an integrated impact noise insulation backing. The tried-and-trusted BLANKE PERMAT decoupling mat rounds off this system.





BLANKE PERMATOP

The innovative underfloor heating and cooling system



BLANKE PERMATOP

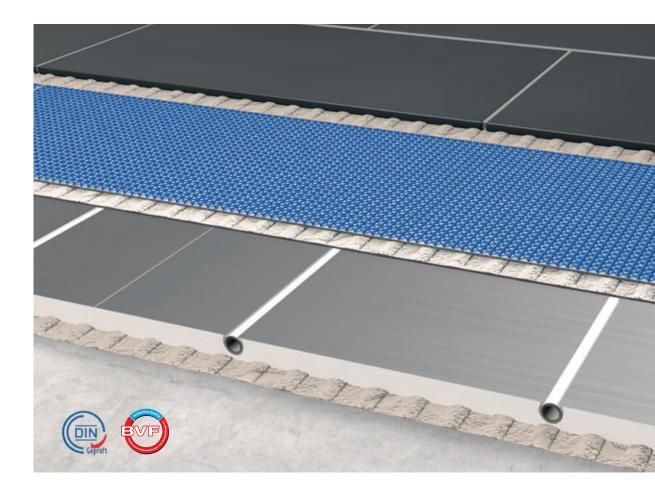
BLANKE PERMATOP is an innovative underfloor system for both heating and cooling. It combines the advantages of an EPS-based installation panel and ex-works heat diffusion plate with the enormous compressive stability of BLANKE PERMAT underlayment and decoupling mat. The heat diffusion plate is bonded across the whole surface area – including the bends – and guarantees a uniform and particularly fast heat distribution.

Combined with BLANKE GLUEMAX, a special, fast-curing dispersion adhesive, BLANKE PERMAT replaces the conventional layer of screed; distinguishing features include high adhesive bonding values as well as resistance to bending, tensile and compressive loads.

The unique combination of BLANKE PERMAT with the BLANKE PERMATOP installation panels comprising insulation and heat diffusion plate facilitates an extremely thin construction without having to forgo fast and even heat distribution. Three different systems are available with different heights or sustainable wood fibre insulation with two different pipe spacings.

ADVANTAGES AT A GLANCE

- > Very fast-reacting underfloor heating and cooling system. Noticeable warmth after 5 minutes
- > Extremely low installation height from 31 mm
- > Can saves upwards of four weeks of construction time, because there is no need for screed
- > Particularly suitable for refurbishments



Fast-reacting underfloor heating and cooling system

Perceptible warmth in as little as 5 minutes thanks to excellent heat distribution properties of the heat diffusion plate bonded across the whole surface area.

Extremely low floor installation height, including insulation

With BLANKE PERMATOP 3000 the installation is just 31 mm high and as a consequence particularly suitable for refurbishments.

Saves more than 4 weeks building time

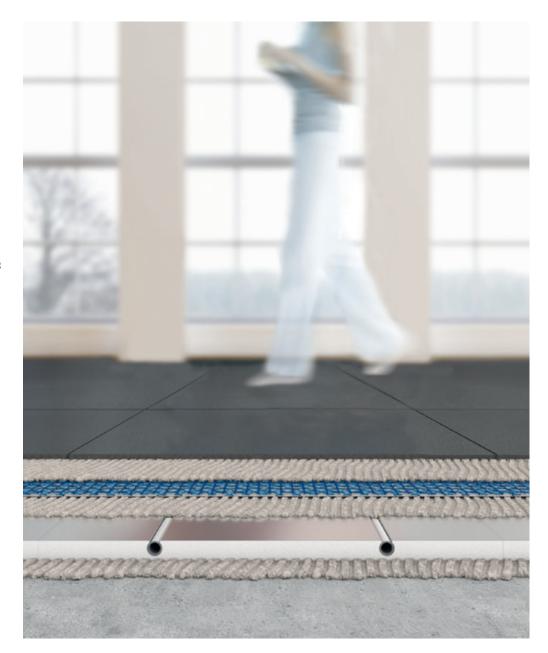
Because installation requires no screed, because there are no drying times and costs to lay screed.

Multifunctional

BLANKE PERMAT makes it possible to lay all tile formats and all types of flooring.



BLANKE PERMATOP WOOD The sustainable and environmentally friendly version with wood fibre insulation board!



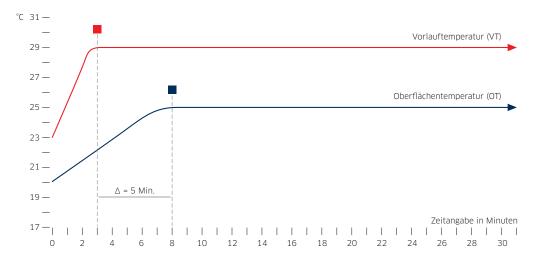
TEMPERATURE PROFILE **BLANKE** PERMATOP

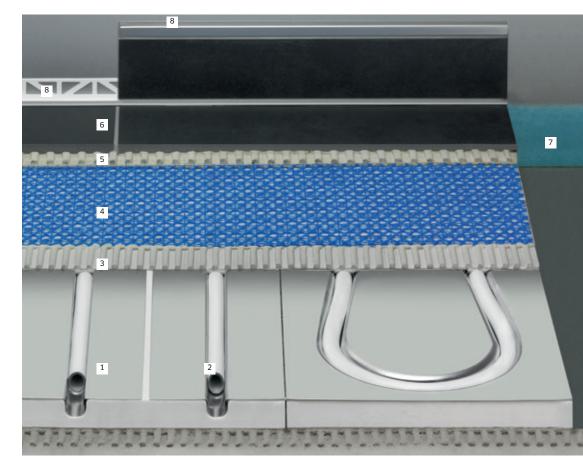
- The supply temperature of 29 °C is reached within 3 minutes.
- The surface temperature of 25 °C is reached in 8 minutes.

Full surface temperature after just 5 minutes!



We will create an individual installation plan for you.





We offer a complete package

Planning, subfloor panel, pipes, underlayment, special adhesive and free delivery to site

Important notes:



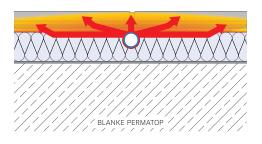
1 BLANKE PERMATOP Grooved/return panel 2 BLANKE PERMATOP

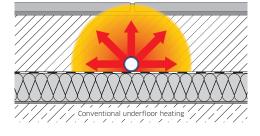
composite metal piping

- 3 BLANKE GLUEMAX
- 4 BLANKE PERMAT

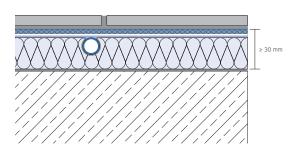
- 5 Flexible adhesive

- 7 BLANKE PERMATOP edge insulation strips
- 8 Optional: Blanke edge profile, expansion joints &
- mortar edge protector
- 6 Floor surface covering
- Uniform heat distribution thanks to heat diffusion plate

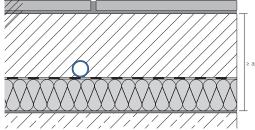




Cross-section BLANKE PERMATOP installation height 31/35 mm



Cross-section: conventional underfloor heating installation height from approx. 85 mm

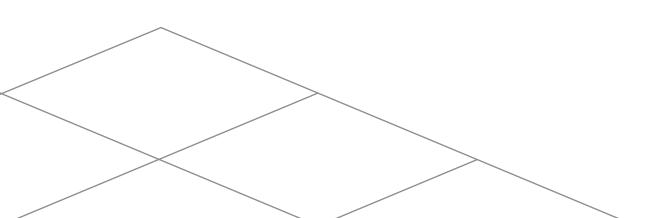


≥ approx. 85 mm

BLANKE PERMATOP WALL

. 51

For all-round warmth



1

BLANKE PERMATOP WALL

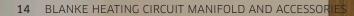
PERMATOP WALL is a heating and cooling system for the wall that facilitates short construction times and impresses with top performance figures. The temperature of the heating or cooling agent is only slightly above or below that of the ambient air. The greater portion of energy is emitted as radiation, which significantly increases the perceived sense of comfort. This system combines perfectly with all other solutions available in the range of Blanke surface heating and cooling systems.

ADVANTAGES AT A GLANCE

- > Very fast-reacting heating and cooling system for walls
- > Minimum layer height thanks to low thickness of 35 mm
- > Combines perfectly with all underfloor heating and cooling system in the PERMATOP series





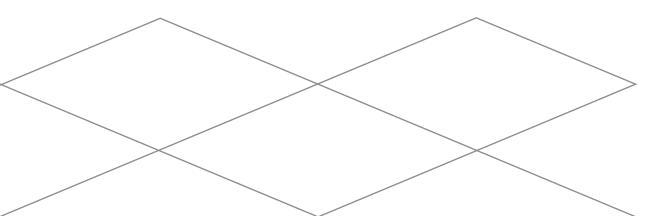




BLANKE HEATING CIRCUIT MANIFOLD

0

and accessories



BLANKE HEATING CIRCUIT MANIFOLD AND ACCESSORIES

Stainless-steel heating circuit manifolds with innovative valve technology "Hydro-Control" facilitate simple and fast hydraulic calibration of the connected heating and cooling circuits. This innovative valve technology offers automatic adjustment of the heating circuits to different operating statuses as well as changing pressure and volume rates in the surface heating.

Accessories for BLANKE UNDERFLOOR HEATING AND COOLING SYSTEM 3 1 BLANKE SF COMPRESSION FITTING for BLANKE PERMATOP SF 2 BLANKE COMPRESSION FITTING 2 for BLANKE PERMATOP BF, BFC and WALL **3** BLANKE COMPRESSION FITTING for BLANKE PERMATOP SF, BF, BFC and WALL 5 4 BLANKE COMPRESSION CONNECTOR for BLANKE PERMATOP 5 BLANKE HEATING CIRCUIT MANIFOLD Hydro-Control (number of heating cir-TRACK COLOR cuits: 2-12, Fig. example with 5) 6 BLANKE MANIFOLD STOP VALVE flow (red) 7 BLANKE MANIFOLD STOP VALVE return (blue) 8 BLANKE CONNECTION SET ELBOW 8 (PW7) 9 BLANKE CONNECTION SET STRAIGHT (PW7) 10 BLANKE FIXED-VALUE CONTROL STA-TION with high-efficiency pump 10 11 BLANKE FIXED-VALUE CONTROL STA-TION with high-efficiency pump and heat 11 exchanger 12 BLANKE ZONE VALVE **13** BLANKE MAGNETIC SEPARATOR 14 BLANKE MICRO LBA 14 **15** BLANKE THERMAL INSULATION SHELLS 16 BLANKE RETURN FLOW TEMPERATURE-LIMITER VALVE **17** BLANKE MIXING UNIT **18** BLANKE Y-JUNCTION CONNECTOR **19** BLANKE ADAPTER FITTING 20 BLANKE flush-mounted 16 MANIFOLD CABINET 17 21 BLANKE surface-mounted MANIFOLD CABINET 19 20 21

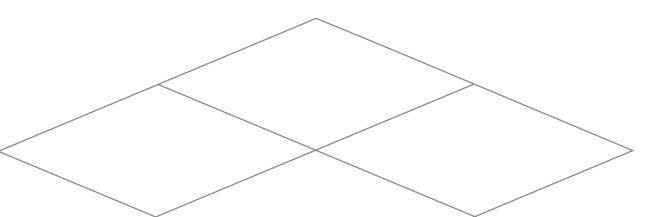


There are more accessories that are not illustrated here; talk to us or browse through our catalogue!



BLANKE SMART HOME SOLUTIONS

Better sense of well-being and convenience for your home



BLANKE SMART HOME SOLUTIONS

Future market – smart home: 88.2% of all households in Germany are connected to the Internet, and some 59% already use smart home applications to control and monitor their domestic energy systems. This approach to controlling their domestic systems not only results in a better sense of well-being and convenience, but also has a high potential for saving energy in your home. Controlling heating, security*, lighting* or shading* quickly and simply – smart home technology offers you a convenient and simple way to control different applications that accompany you throughout your everyday life. The Blanke system is easy to install and-thanks to its modular expandability-introduces you to the world of smart homes via a flexible and uncomplicated way.

BLANKE SMART HOME SOLUTIONS:

1 BLANKE CENTRAL UNIT

- 2 BLANKE WALL-MOUNTED THERMOSTAT
- 3 BLANKE SOCKET OUTLET
- 4 BLANKE WINDOW/DOOR SENSOR
- 5 BLANKE WALL SWITCH
- 6 BLANKE WALL-MOUNTED THERMOSTAT
- 7 BLANKE UP RELAY 16 A
- 8 BLANKE SWITCHBOX
- 9 BLANKE BASE UNIT 230V
- 10 BLANKE DIGITAL ROOM-CONTROL DEVICE
- 11 BLANKE ANALOG ROOM-CONTROL DEVICE
- 12 BLANKE ACTUATOR 230V

Expert tip:

BLANKE SMART HOME SOLUTIONS can be used with all PERMATOP heating and cooling systems.

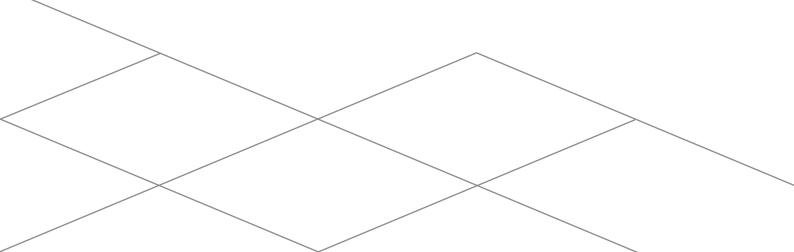




*Security, light and shading accessories are optional and can be purchased from HomeMatic.

ANY FURTHER QUESTIONS?

Call us free-of-charge on 0800/025 26 53 (if you are calling from abroad, dial +49 2374/507 131) or visit our website: www.blanke-systems.de.





MAGE SOURCE: STEULER DESIGN

Blanke Systems GmbH & Co. KG

Stenglingser Weg 68-70 58642 Iserlohn/Germany T +49 (0)2374 507-0 F +49 (0)2374 507-4230 E info@blanke-systems.de I www.blanke-systems.com

DRUBE0080



