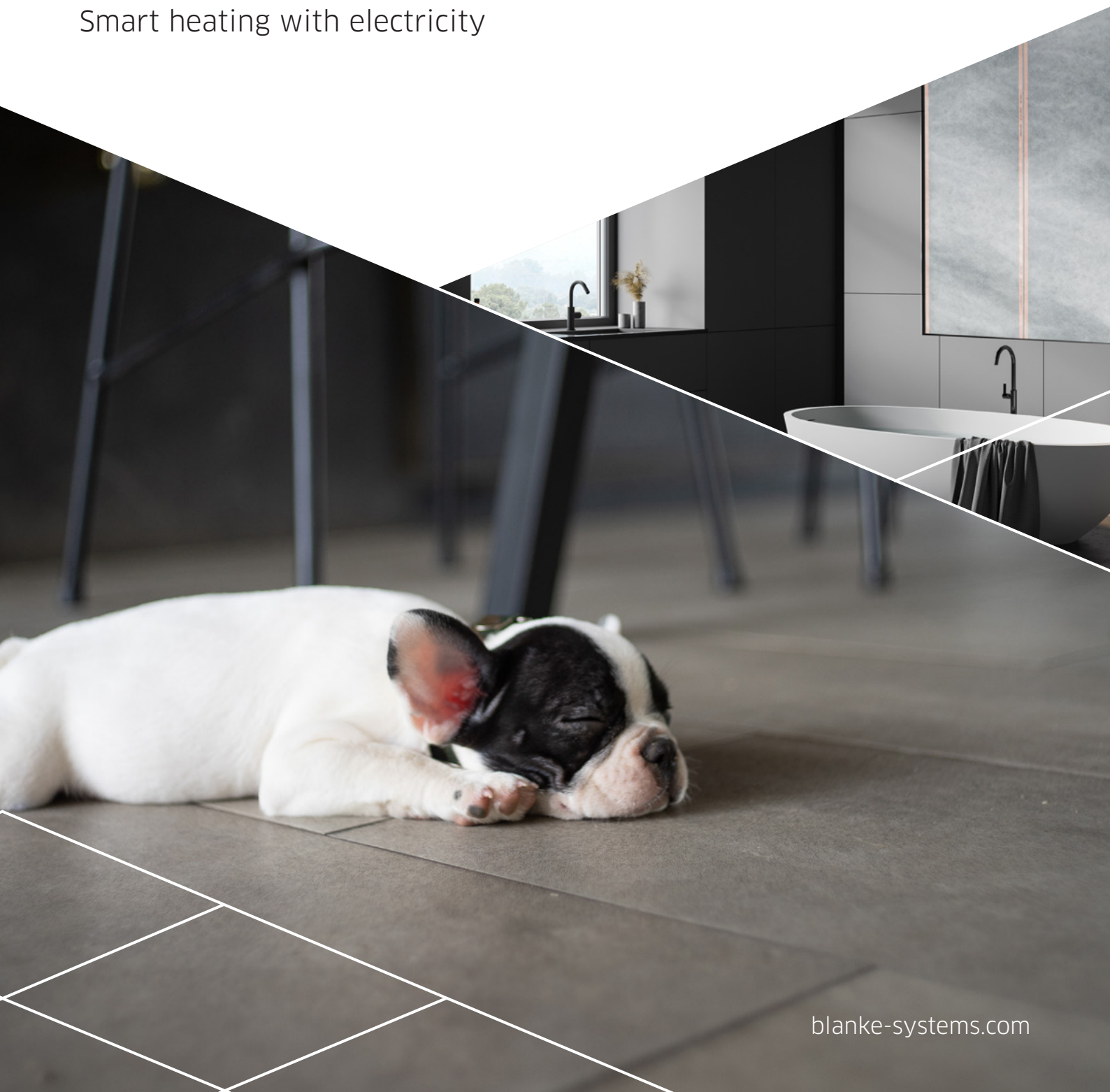


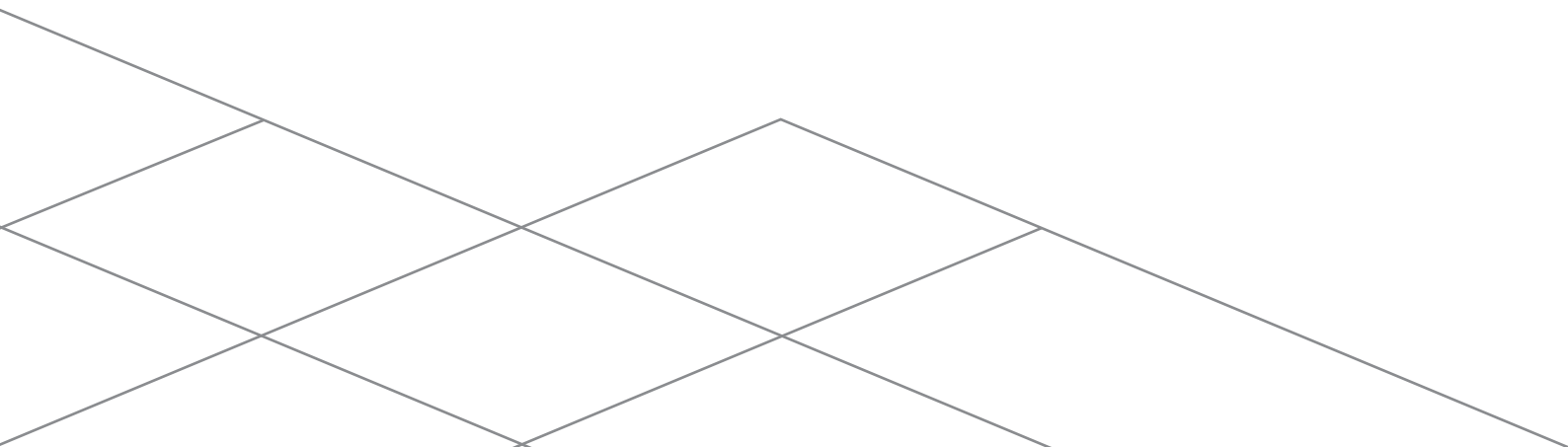


SURFACE HEATING SYSTEMS

ELECTRICAL

Smart heating with electricity







CONTENT

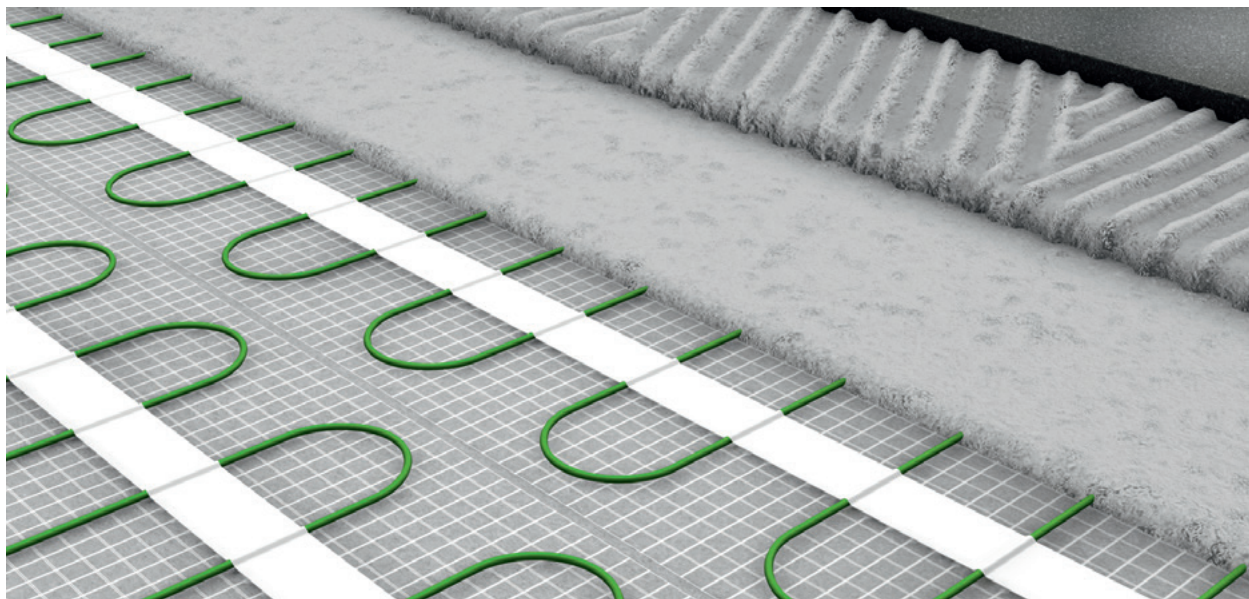
BLANKE ELOTOP+	4
BLANKE ELOTOP 1000	8
BLANKE ELOTOP CARBON	12
BLANKE ELOTOP MATRIX	20



BLANKE ELOTOP+

Electric underfloor heating system

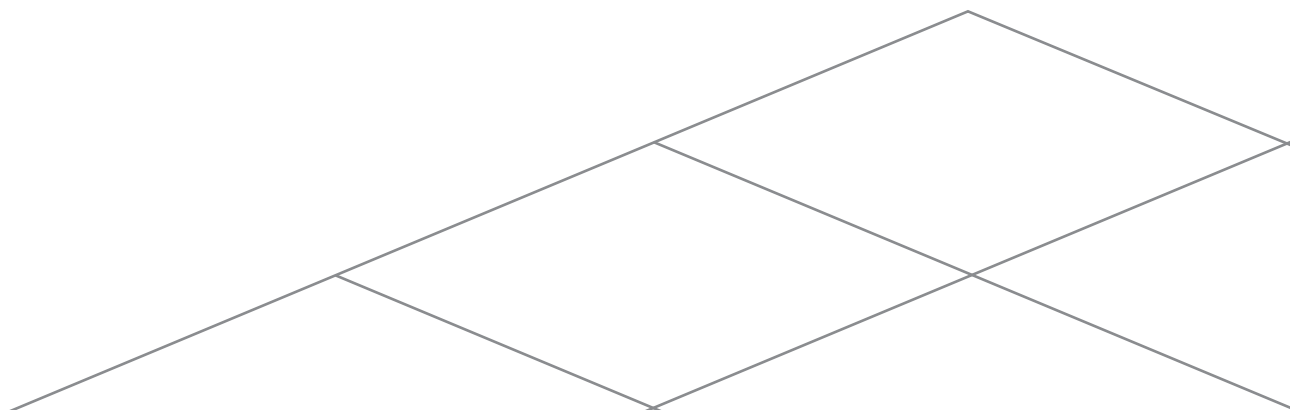
BLANKE ELOTOP+



ADVANTAGES AT A GLANCE

- > Noticeable warmth in just a couple minutes
- > Individually adaptable to your floor plan
- > Perfect for renovations thanks to its low height
- > No electromagnetic pollution, suitable for allergy sufferers

BLANKE ELOTOP+ is suitable for use as the main heating system as well as a supplementary heating to provide perfect temperature control of all tile and natural stone coverings - including in wet areas such as in floor level showers. Thanks to the integrated temperature sensor in each individual room it is easily possible to regulate the desired temperature to suit your needs. When renovating or refurbishing there is no need to extend the central heating system at huge cost, because it is possible to install the BLANKE ELOTOP+ retrospectively and without any difficulty during renovation work.



TECHNICAL DATA

Voltage: 230 V AC
 Output mat: 160 W/m²
 Output pipe: max. 12 W/m
 Width of mat: 0.50 m
 Size of pipe: approx. 3.2 mm
 Bending radius: min. 30 mm

Nominal temp. limit: +80 °C
 Protective measure: RCD: 30 mA
 Fusing: 16 A (B characteristic) recommended 13 A
 Connection cable: 3.00 m
 Test voltage: 500 - 1000 V
 Backing material: Glass fibre mesh, self-adhesive

Noticeable warmth in the briefest of time

BLANKE ELOTOP+ produces particularly pleasant warmth, noticeable in the briefest of time.

Individually adaptable to any floor plan

It is possible to lay BLANKE ELOTOP+ over the whole or part of a surface to suit your needs in each individual room.

Perfect for renovations

Thanks to the low installation height BLANKE ELOTOP+ is ideal for all types of refurbishments.

No electromagnetic pollution, suitable for allergy sufferers

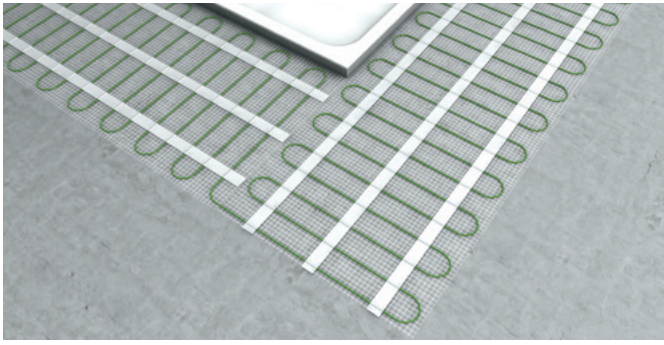
Rooms are heated gently from bottom to top, so no allergens are whirled up.



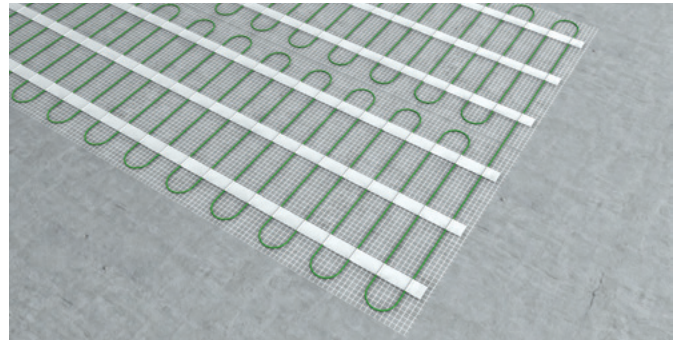
ACCESSORIES



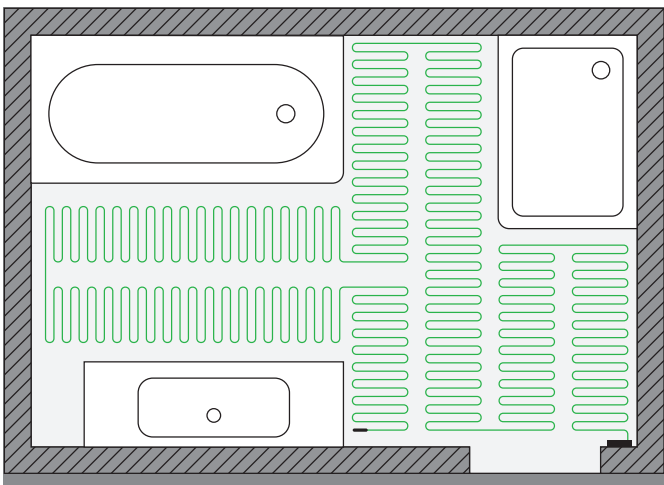
* includes temperature sensor



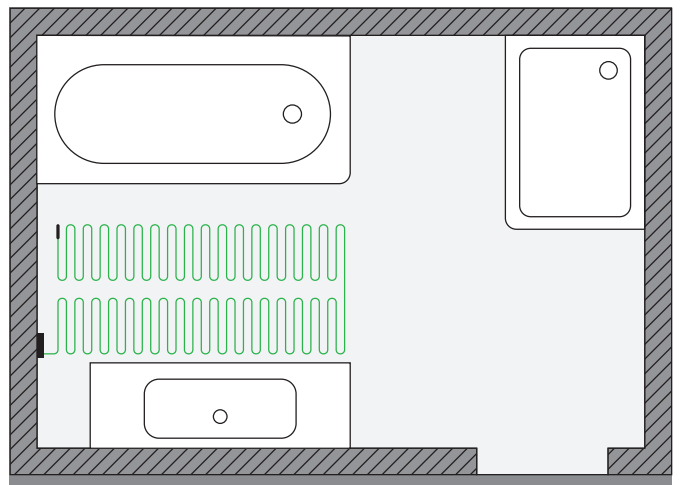
■ BLANKE ELOTOP+ LAID 90° around a corner



■ BLANKE ELOTOP+ LAID TURNED BACK BY 180°



■ BLANKE ELOTOP+ LAID OVER THE WHOLE SURFACE



■ BLANKE ELOTOP+ LAID IN PART OF SURFACE AREA

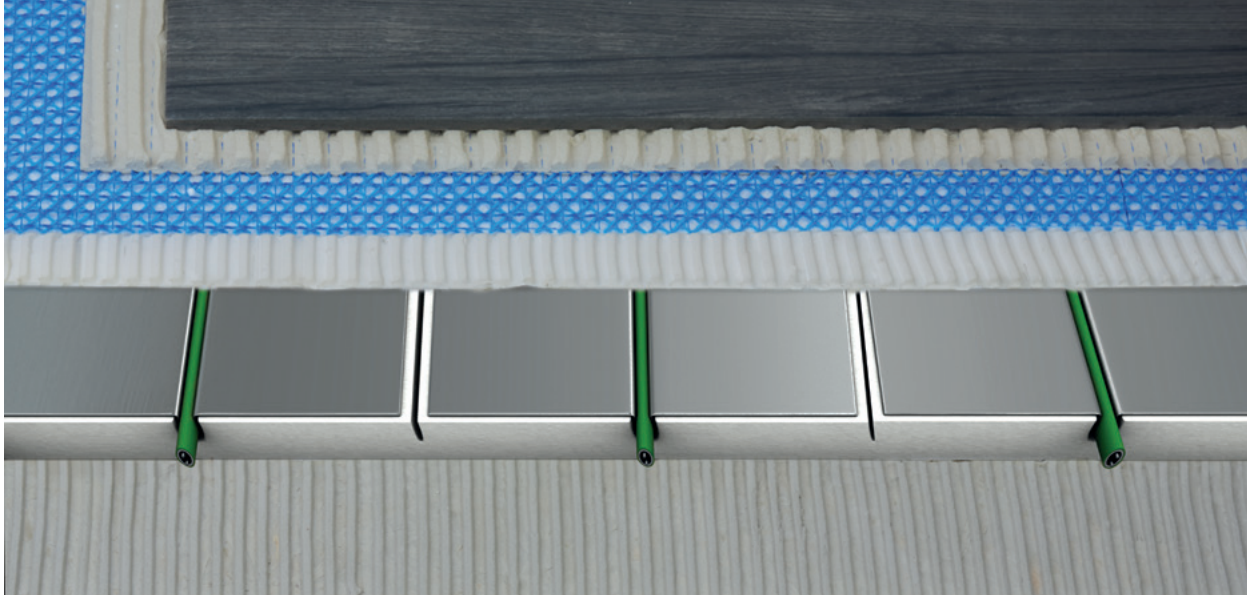




BLANKE ELOTOP 1000

Electric underfloor heating for indoor use with self-regulating heating tape

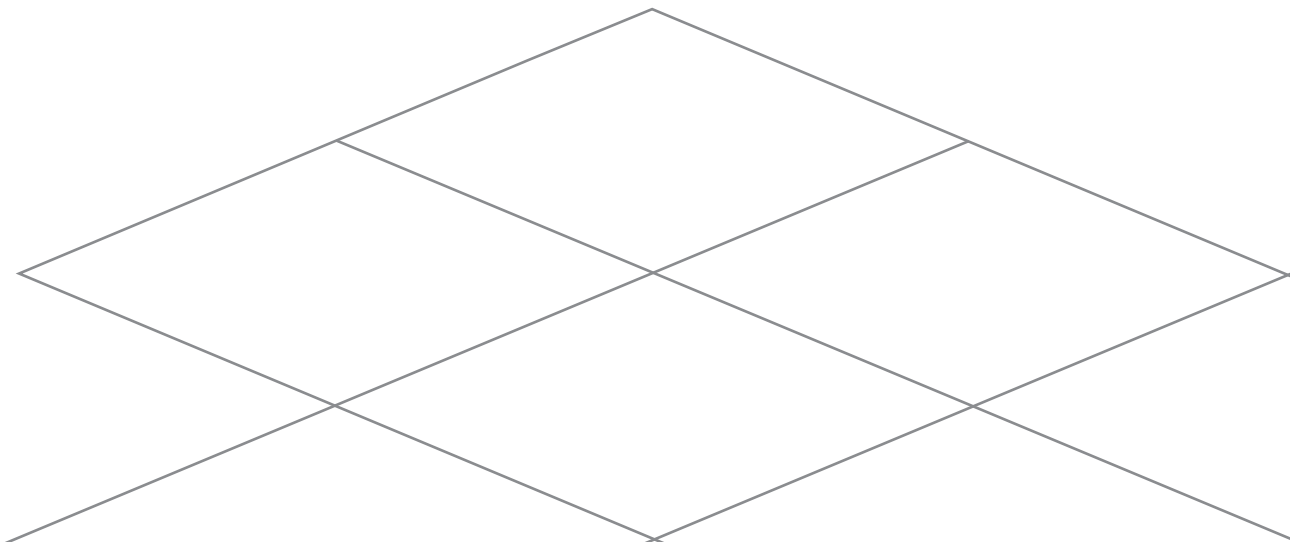
BLANKE ELOTOP 1000



ADVANTAGES AT A GLANCE

- > System panel with an installation height of just 20 mm (excl. BLANKE PERMAT and floor covering)
- > Dry-lining system ideal for renovations and new buildings
- > Predefined installation gap of 150 mm for optimum heating performance
- > Self-regulating heating tape with automatic output adjustment
- > Intuitively operated WIFI TOUCH THERMOSTAT with touch display

The BLANKE ELOTOP 1000 electric floor heating system is an alternative to water-based underfloor heating systems. The ELOTOP 1000 is a dry-lining system, ideally suited for renovations. The BLANKE ELOTOP 1000 HEATING TAPE is easily inserted into the BLANKE ELOTOP 1000 system panel with aluminium heat diffusion panels and, when in operation, helps to achieve fast, uniform and efficient underfloor heating. The heating tape is self-regulating and reliably limited to the maximum temperature.

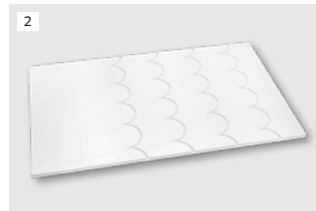
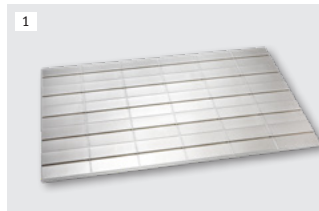


TECHNICAL DATA

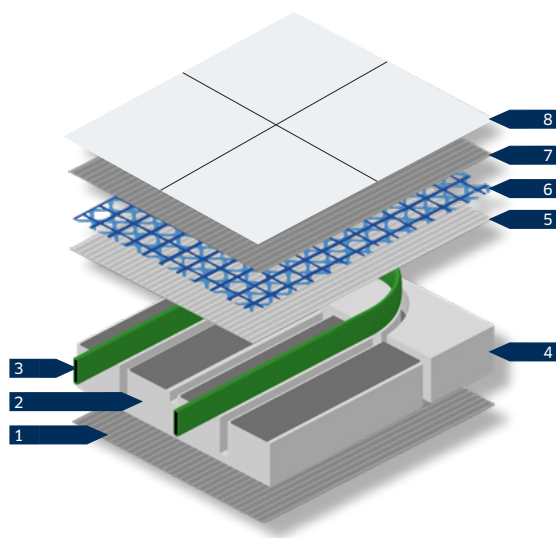
Voltage:	230 V	Nominal limit temp.:	max. ambient temperature 65 °C (min. processing temp. 0 °C)
Conductor rating:	10 - 25 W/m	Protective measure	20 A power circuit breaker [C characteristic]
Electrical power:	70 - 170 W/m ²	Fusing:	30 mA residual-current circuit breaker
Size of pipe:	13 × 5 mm	Connection cable:	40 W/m electr. rating (270 W/m ²) (max. switch-on rating)
Bending radius:	25 mm (smallest bending radius)	Test voltage:	Insulation resistance measurement min. 500 V
		Thermal conductivity level:	(WLS) 035 (0.035 W/(mK))
		Fire classification:	E in acc. with DIN EN 13501-1 (without end covering)

BLANKE ELOTOP 1000 COMPONENTS

- 1 ELOTOP 1000 GROOVED PANEL
- 2 ELOTOP 1000 COMBI-ELEMENT
(4 deflector / 2 edge extension
elements)
- 3 ELOTOP 1000 HEATING TAPE
- 4 ELOTOP 1000 CONNECTION SET
- 5 REPAIR SET
- 6 TERMINATING SET
- 7 SENSOR CONNECTION SET
(on request for walls)
- 8 WIFI TOUCH THERMOSTAT
- 9 CONNECTION CONTROLLER
- 10 ADAPTER FOR GROOVE
CUTTING TOOL
- 11 CUTTING TOOL
- 12 GROOVE CUTTING TOOL
U-CONTOUR



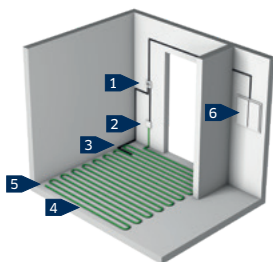
SYSTEM DESIGN BLANKE ELOTOP 1000



- 1 Tile adhesive
- 2 ELOTOP 1000 GROOVED PANEL
- 3 ELOTOP 1000 HEATING TAPE
- 4 ELOTOP 1000 COMBI-ELEMENT (4 deflector / 2 edge extension elements)
- 5 BLANKE GLUEMAX
- 6 BLANKE PERMAT
- 7 Mortar tile adhesive
- 8 Floor covering (in this case, tile)

Room size up to 9 m²*

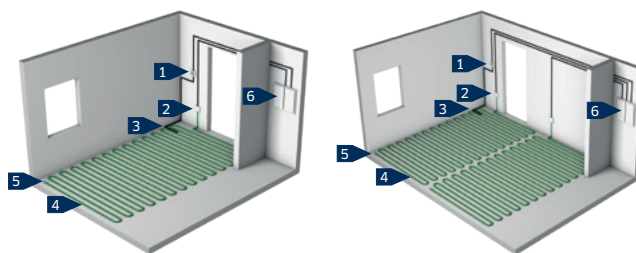
> (Direct connection to room thermostat; heating tape length max. 60 m; meter box fuse rating 16 A [C characteristic])



- 1 Room thermostat
- 2 Junction box
- 3 Floor Sensor

Room size up to 15 m²**

> (Connection via an external power contactor in the electrical sub-distributor; heating tape length max. 100 m; meter box fuse rating 20 A [C characteristic]).



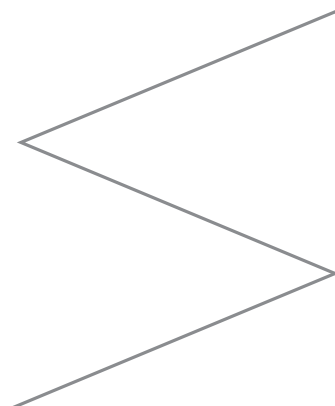
- 4 * ELOTOP 1000 (max. 60m / < 9 m²)
- 5 Termination
- 6 Meter box
- 4 **ELOTOP 1000 (max. 100m / < 15 m²)





BLANKE ELOTOP CARBON

The ultra-thin heating mat for walls and floors



BLANKE ELOTOP CARBON



ADVANTAGES AT A GLANCE

- > Low installation height in the millimetre range for barrier-free living
- > Fast and easy mounting, flexible installation
- > Particularly energy-efficient and sustainable thanks to low investment and operating costs

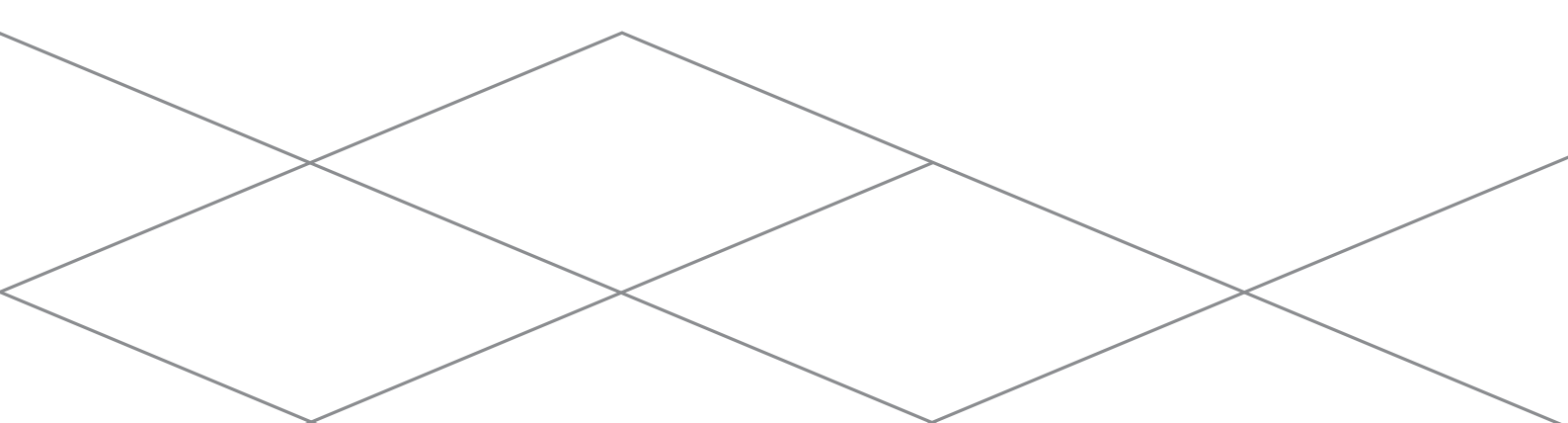
Enjoy complete interior design freedom, with no need to take radiators into account.

BLANKE ELOTOP CARBON is an ultra-thin heating mat for use on walls and floors. The heating mat enables space-saving interior design solutions, helping to create stylish ambiances, and enhances living comfort in new, renovated and refurbished buildings.

The patented BLANKE ELOTOP CARBON HEATING MAT based on 36 V SELV (safety extra-low voltage) consists of a specially designed, ultra-thin 0.4 mm diffusion-open, fleece-laminated structure that is perforated for optimised adhesion. The heating mat is laid on the tile adhesive and thanks to its perforations reliably connects with the substrate.

As wall or floor heating, BLANKE ELOTOP CARBON perfectly enhances living areas and bathrooms and guarantees maximum comfort with the mild warmth radiated by surface heating. In modern shower areas, its radiant heat is perfect for heating walls or acting as an invisible hand towel heater. In low-energy houses (efficiency houses 40 or 50), it is ideal as a fully-fledged heating system and prevents mould in homes under renovation.

As a source of on-demand heating, it responds swiftly and can be operated and controlled room by room. It can also be integrated into smart home systems.



TECHNICAL DATA

Safety extra-low voltage SELV:	36 V	Secondary cable between power supply unit and heating mat:	2.5 mm ² max. length 10 m 6.0 mm ² max. length 25 m
Nominal limit temperature:	70 °C		
Minimum installation temperature:	5 °C		
Minimum bending radius of the heating mat:	R 10 mm		
Material:	PET film with carbon fibres and fillers	Max. heat transfer resistance for floor coverings:	0.15 m ² K/W
Connection cable:	2.5 mm ² / 6 mm ²		

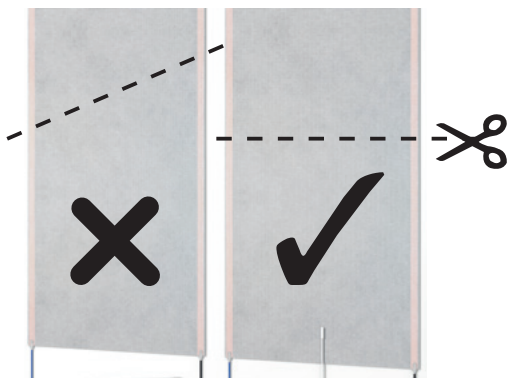
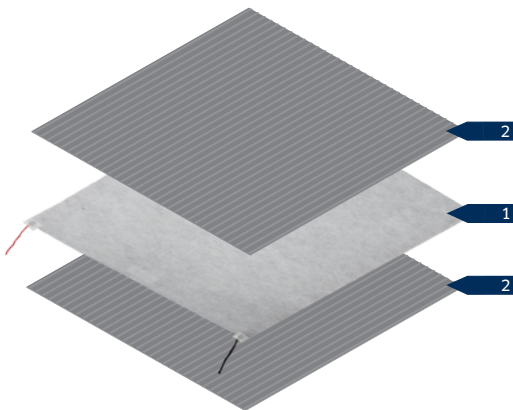
BLANKE ELTOP CARBON SYSTEM COMPONENTS

- 1 HEATING MAT
- 2 TWIN CONNECTING CABLE
- 3 CRIMP 2.5/6.0 mm² [CRIMP CONNECTOR]
- 4 POWER SUPPLY UNIT 300 W
- 5 POWER SUPPLY UNIT 800 W
- 6 SWITCHING RELAY for WIFI TOUCH THERMOSTAT (only required for 300 W POWER SUPPLY UNIT)
- 7 WIFI TOUCH THERMOSTAT including temperature sensor
- 8 SENSOR CONNECTION SET for floor heating

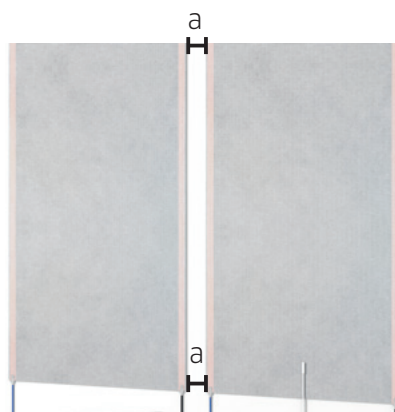


SYSTEM DESIGN BLANKE ELOTOP CARBON

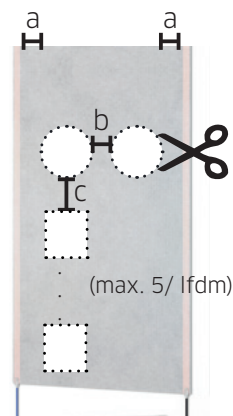
- 1 BLANKE ELOTOP CARBON HEATING MAT
- 2 TILE ADHESIVE



The mats must never be cut diagonally. Horizontal cutting is correct.



The individual heating mats must be spaced at least 20 mm apart.



A maximum of five slots per metre are permitted in the mats.

a	min. 20 mm	b	min. 50 mm	c	min. 50 mm
	Ø max. 70 mm		max. 70 x 70 mm		

APPLICATION EXAMPLES



Application examples Floor

The heating mat is an ideal solution for floor heating. The example on the left shows installation under laminate/parquet flooring. We recommend combining with tiles for maximum efficiency. BLANKE ELOTOP CARBON can be combined with almost all floor coverings. When combining ELOTOP CARBON heating mats with a PERMATOP surface heating system, for which the BLANKE PERMAT system must be used, the ELOTOP CARBON heating mats must be laid on top of the PERMAT. In wet rooms, a composite sealant must be used in line with regulations. **Note:** Even subsequent drilling (to insert a door stop for instance) is no problem at all.



Application examples for walls

Mounted flush in the wall, ELOTOP CARBON HEATING MATS provide an excellent source of evenly distributed heat. Tiles can be laid directly after the installation in the adhesive bed. Alternative wall coverings must be installed according to the manufacturer's instructions. Built-in components such as flush-mounted bodies can be easily installed at a later date. Pictures and shelves can be attached with dowels and screws to walls behind which the heating mats are installed. You enjoy complete freedom to design areas as you wish.

System solution 1

HEATING MAT 36 V -
 floor heating Electrical power:
 66 W/lm [110 W/m²]
 1000 x 590 x 0.4 mm
 Contacting on one side
 Article no.: 918-900-110100

POWER SUPPLY UNIT: 300 W
 Article no.: 921-900-300

SENSOR CONNECTING SET
 for floor heating
 Article no.: 725-900

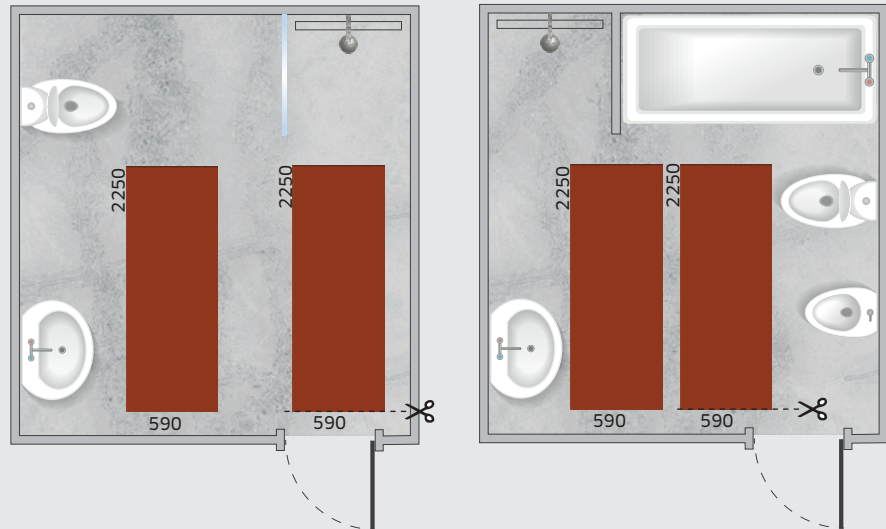


System solution 2

HEATING MAT 36 V -
 floor heating Electrical power:
 66 W/lm [110 W/m²]
 4500 x 590 x 0.4 mm
 Contacting on both sides
 Article no.: 918-900-110450

POWER SUPPLY UNIT: 300 W
 Article no.: 921-900-300

SENSOR CONNECTING SET
 for floor heating
 Article no.: 725-900



✂ Heating mats with contacting on both sides can be cut Heating mats can be cut to size;
 original size L x W x H: 4500 x 590 x 0.4 mm

System solution 3

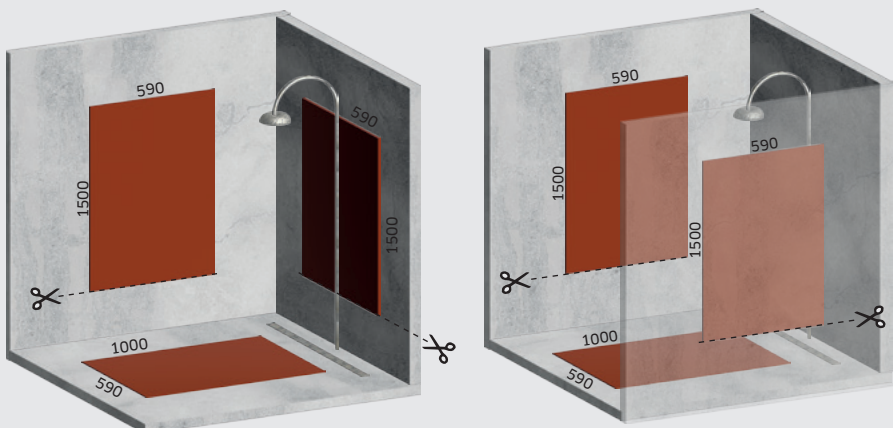
HEATING MAT 36 V -
 wall heating Electrical power:
 132 W/lm [220 W/m²]
 2000 x 590 x 0.4 mm
 Contacting on one side
 Article no.: 918-900-220200

POWER SUPPLY UNIT: 300 W
 Article no.: 921-900-300



System solution 4

4



HEATING MAT 36 V -
wall heating Electrical power:
132 W/lm [220 W/m²]
3000 x 590 x 0.4 mm
Contacting on both sides
Article no. : 918-900-220300

HEATING MAT 36 V -
floor heating Electrical power:
66 W/lm [110 W/m²]
1000 x 590 x 0.4 mm
Contacting on one side
Article no. : 918-900-110100

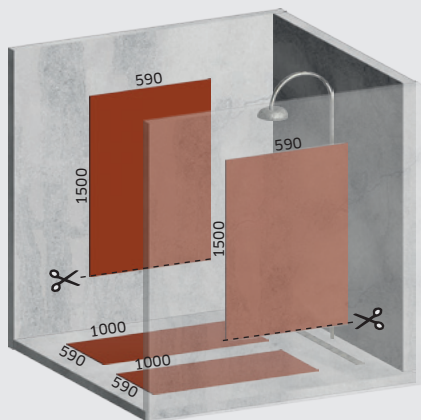
POWER SUPPLY UNIT: 800 W
Article no. : 921-900-800

SENSOR CONNECTING SET
for floor heating
Article no. : 725-900

✂ Heating mats with contacting on both sides can be cut Heating mats can be cut to size;
original size L x W x H: 3000 x 590 x 0.4 mm

System solution 5

5



2 HEATING MATS 36 V -
floor heating Electrical power:
66 W/lm [110 W/m²]
1000 x 590 x 0.4 mm
Contacting on one side
Article no. : 918-900-110100

HEATING MAT 36 V -
wall heating Electrical power:
132 W/lm [220 W/m²]
3000 x 590 x 0.4 mm
Contacting on both sides
Article no. : 918-900-220300

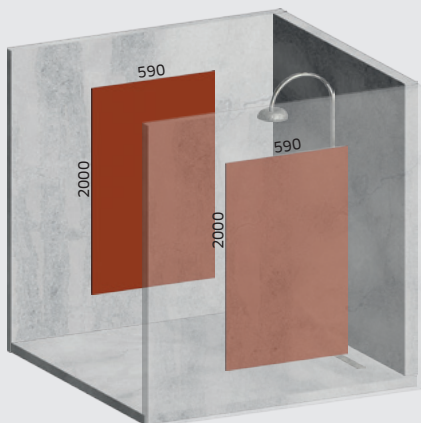
POWER SUPPLY UNIT: 800 W
Article no. : 921-900-800

SENSOR CONNECTING SET
for floor heating
Article no. : 725-900

✂ Heating mats with contacting on both sides can be cut Heating mats can be cut to size;
original size L x W x H: 3000 x 590 x 0.4 mm

System solution 6

6



2 HEATING MATS 36 V -
wall heating Electrical power:
132 W/lm [220 W/m²]
2000 x 590 x 0.4 mm
Contacting on one side
Article no. : 918-900-220200

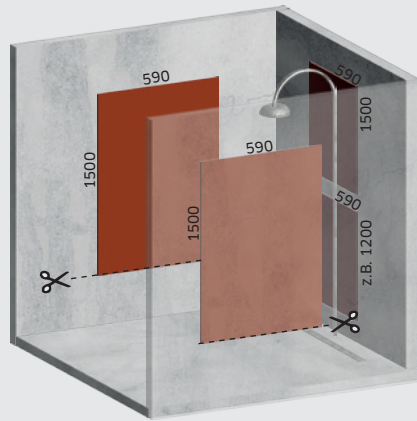
POWER SUPPLY UNIT: 800 W
Article no. : 921-900-800

✂ Heating mats with contacting on both sides can be cut Heating mats can be cut to size;
original size L x W x H: 3000 x 590 x 0.4 mm

System solution 7

2 HEATING MATS 36 V -
wall heating Electrical power:
132 W/lm [220 W/m²]
3000 x 590 x 0.4 mm
Contacting on both sides
Article no.: 918-900-220300

POWER SUPPLY UNIT: 800 W
Article no.: 921-900-800



✂ Heating mats with contacting on both sides can be cut Heating mats can be cut to size;
original size L x W x H: 3000 x 590 x 0.4 mm

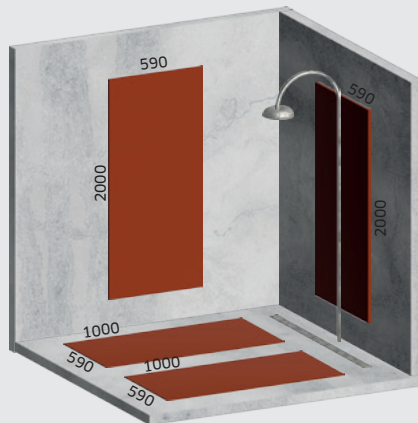
System solution 8

2 HEATING MATS 36 V -
wall heating Electrical power:
132 W/lm [220 W/m²]
2000 x 590 x 0.4 mm
Contacting on one side
Article no. : 918-900-220200

2 HEATING MATS 36 V -
floor heating Electrical power:
66 W/lm [110 W/m²]
1000 x 590 x 0.4 mm
Contacting on one side
Article no. : 918-900-110100

POWER SUPPLY UNIT: 800 W
Article no.: 921-900-800

SENSOR CONNECTING SET
for floor heating
Article no.: 725-900

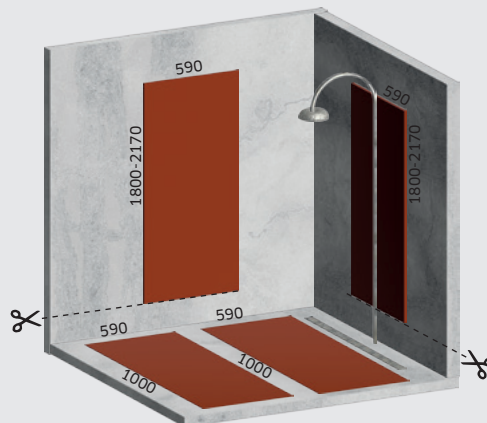


System solution 9

2 HEATING MATS 36 V -
wall heating Electrical power:
132 W/lm [220 W/m²]
2200 x 590 x 0.4 mm
Contacting on both sides
Article no. : 918-900-220220

2 HEATING MATS 36 V -
floor heating Electrical power:
66 W/lm [110 W/m²]
1000 x 590 x 0.4 mm
Contacting on one side
Article no. : 918-900-110100

POWER SUPPLY UNIT: 800 W
Article no.: 921-900-800



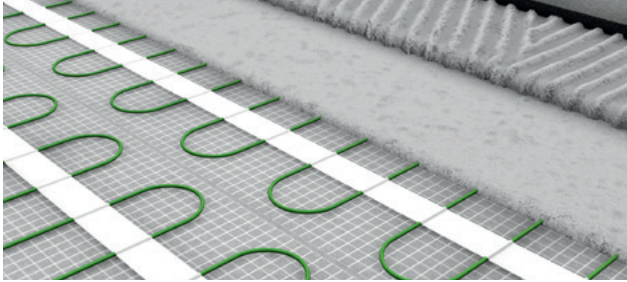
✂ Heating mats with contacting on both sides can be cut Heating mats can be cut to size;
original size L x W x H: 2200 x 590 x 0.4 mm



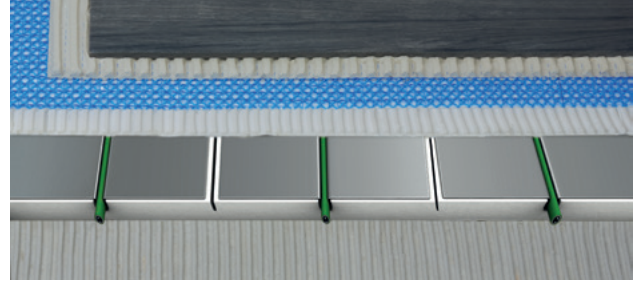
BLANKE ELOTOP MATRIX

System

BLANKE ELOTOP+



BLANKE ELOTOP 1000



Components

Complete sets incl. touch room thermostat, protective sleeve for temperature sensor, temperature sensor 2 m long

BLANKE 230 - 900 - 0500 200 = length 2.0 m
 230 - 900 - 0500 300 = length 3.0 m
 up to
 230 - 900 - 0500 1200 = length 12.0 m

Single mats: no other accessories

BLANKE 225 - 900 - 0500 200 = length 2.0 m
 225 - 900 - 0500 300 = length 3.0 m
 up to
 225 - 900 - 050 3000 = length 30.0 m

DIGITAL TOUCH THERMOSTAT 220-900

DIGITAL TOUCH THERMOSTAT WIFI 224-900

BLANKE GROOVED PANELS	719-900
BLANKE COMBI-ELEMENTS	720-900
BLANKE HEATING TAPE 50 m / 100 m / 500 m	721-900-050/100/500
BLANKE CONNECTION SET	723-900
BLANKE TERMINATING SET	722-900
BLANKE REPAIR SET	724-900
BLANKE SENSOR CONNECTION SET	725-900
BLANKE WIFI ROOM THERMOSTAT TOUCH	726-900
BLANKE CONNECTION CONTROLLER	729-900
BLANKE COMPLETE SET FOR CERAMIC FLOOR COVERINGS	718-900-1000

Installation height

Heating mat 3.2 mm

System element panels 20 mm without PERMAT / 25 mm with PERMAT

Substrate

Level and load-bearing, see processing instructions

Level and load-bearing, see processing instructions

Fixation

Heating mat self-adhesive on substrate

Firmly bonded to the existing substrate

Advantages

Fast reacting, thin layer, very light, very suitable for renovations

Very fast reacting, thin layer, very light, minimal moisture

Remark

Prefabricated electric underfloor heating system on self-adhesive heating mat, perfect for renovations thanks to its low installation height

Self-regulating heating tape, suitable for all types of floor covering (parquet, laminate, carpet), can be used as a full heating system in efficiency houses

Tech. data

Voltage 230 V AC
 Output heating mat: 160 W/m²
 Width heating mat: 0.50 m

Voltage: 230 V AC
 Conductor rating: 10-25 W/m
 Electrical power: 70-170 W/m²

BLANKE ELOTOP CARBON (wall)



BLANKE HEATING MAT	2000 x 590 x 0.4	918-900-220200
BLANKE HEATING MAT contacted on both sides	2200 x 590 x 0.4	918-900-220220
BLANKE HEATING MAT contacted on both sides	3000 x 590 x 0.4	918-900-220300
BLANKE CRIMP CONNECTOR	6.0 mm ²	920-900-60
BLANKE CRIMP CONNECTOR	2.5 mm ²	920-900-25
BLANKE WIFI ROOM THERMOSTAT		726-900
BLANKE SENSOR CONNECTION SET, FLOOR (on request for walls)		725-900
BLANKE POWER SUPPLY UNIT 300 W		921-900-300
BLANKE POWER SUPPLY UNIT 800 W		921-900-800
BLANKE TWIN CONNECTING CABLE	10 m 2 x 2.5 mm ²	919-900-2510
BLANKE TWIN CONNECTING CABLE	25 m 2 x 6.0 mm ²	919-900-6025
BLANKE SWITCHING RELAY		922-900

Heating mat 0.4 mm

Level, load-bearing, if possible with insulation to the substrate

Firmly bonded to the existing substrate

Low installation height, simple and quick installation, mild radiant heat

Can be used as wall heating and as a full heating system in efficiency houses 40/50
Usable invisible radiant heating with 36 V safety extra-low voltage

Voltage: 36 V SELV (safety extra-low voltage)
Electrical power: 132 W/m = 220 W/m²

BLANKE ELOTOP CARBON (floor)



BLANKE HEATING MAT	1000 x 590 x 0.4	918-900-110 100
BLANKE HEATING MAT contacted on both sides	4500 x 590 x 0.4	918-900-110 450
BLANKE CRIMP CONNECTOR	6.0 mm ²	920-900-60
BLANKE CRIMP CONNECTOR	2.5 mm ²	920-900-25
BLANKE WIFI ROOM THERMOSTAT		726-900
BLANKE SENSOR CONNECTION SET FLOOR		725-900
BLANKE POWER SUPPLY UNIT 300 W		921-900-300
BLANKE POWER SUPPLY UNIT 800 W		921-900-800
BLANKE TWIN CONNECTING CABLE	10 m 2 x 2.5 mm ²	919-900-2510
BLANKE TWIN CONNECTING CABLE	25 m 2 x 6.0 mm ²	919-900-6025
BLANKE SWITCHING RELAY		922-900

Heating mat 0.4 mm

Level, load-bearing, if possible with insulation to the substrate

Firmly bonded to the existing substrate

Low installation height, simple and quick installation, mild radiant heat

Can be used as wall and floor heating, as a full heating system in efficiency houses 40/50,
invisible radiant heating with a safety extra-low voltage of 36 V

Voltage: 36 V SELV (safety extra-low voltage)
electrical power: 66 W/m = 110 W/m²





BLANKE ON SOCIAL MEDIA

On our social media channels we post the latest news about Blanke, our projects and visions for the future. Follow us on our different channels and discover input about our company, new products, carrier opportunities and events - or just gather inspiration from the pictures of our projects.

Below you will find the different Platforms where you can find us.



www.instagram.com/blanke_systems/



www.youtube.com/c/BlankeSystemsIserlohn/videos



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