

# PRODUCT CATALOGUE

# TERMOFOL

MANUFACTURER OF INNOVATIVE SPACE HEATING SYSTEMS





## ABOUT US

**TERMOFOL** is an enterprise with an international reach. European solutions combined with Korean technology has allowed to deliver energy-saving and failure-free heating systems.

Our main goal is to satisfy needs of our clients, that's why we consistently diversify our offer of innovative products, supporting permanent practical and economical solutions. Inspired with Your needs and expectations, we put ourselves the highest requirements in terms of quality of offered products and customer service.

A dynamically growing export section constitutes a strong pillar in our company's actions. Thanks to cooperation with many foreign partners we successively strengthen

the position of TERMOFOL company in the international arena. Handing our catalogue over to You, we believe that these few minutes of your attention given to our company, will bring our offer closer to You and allow to establish a fruitful cooperation.

We successively invest in continuous development, diversifying and improving of our products and services.

## JOIN US

Good company thinks out of the box  
Good company is still looking for innovations  
Good company wins awards  
Good company is based on a good strategy  
Good company invites to cooperation



PRODUCTION AND WAREHOUSE CENTER

**OFFER**

We are pleased to present You our offer with a full range of accessories for surface heating. Our staff willingly help You to choose optimal solutions fully tailored to Your needs.



Heating foils are modern solutions in the field of heating. The heat emission process works on the principle of infrared radiation, which makes heating more efficient. A heating foil is actually an elastic heater. It is made of high quality coal with specific properties and aluminium mass. Individual materials are arranged in layers thanks to the use of an innovative solution associated with printing. Just these layers are responsible for infrared radiation.

The base of a floor heating foil constitutes a PET foil. It is characterised by good resistance against mechanical damage and abrasion.

In addition, it is highly insulating and fireproof so thanks to it the whole system is very safe. A heating foil is powered by a copper tape which is connected permanently to the electrical network. This method of heating is controlled with a panel built into the wall.

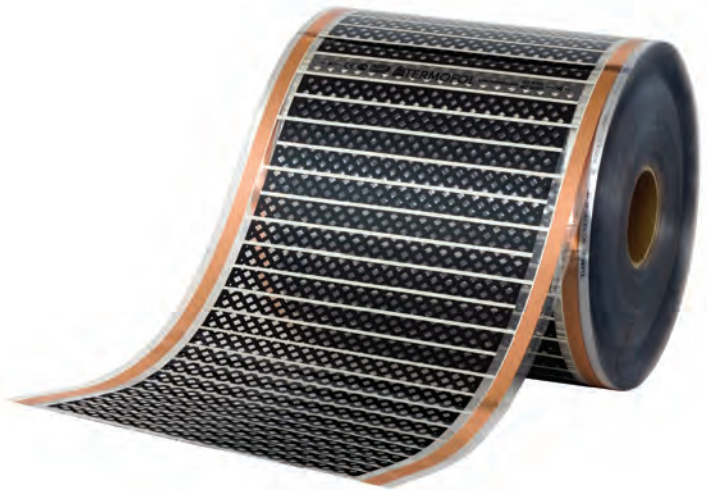
What is the difference between the traditional heating and a heating foil?

Infrared radiation does not heat the air, as is the case of standard convection systems. Infrared rays warm up specific items towards which they are emitted. If the heating foil is placed under floor panels, then the floor finishing elements will be heated. Therefore, it is really justified to place a ceiling heating foil on the ceiling under the plasterboard layer. Unlike other systems, the heat rays are first emitted towards the room, not upwards.



## ECONOMIC HEATING

A heating foil means the ease of creation of heating systems as well an alternative for individual needs of the Customers. Thanks to the wide range of uses every user will find a product to meet Their expectations. Now you can design the underfloor heating yourself and create your own warm interior.



A simple and economical heating system that is characterised by:

- Precise control of heating in individual rooms
- A warm floor in just a few minutes
- Saving of space, no boiler rooms, heaters
- Speed and ease of mounting
- Beneficial effect on health – the heating system does not dry out the conjunctiva and the respiratory tract, and the emitted anions and infrared radiation reduce spreading of bacteria and unpleasant smell
- It does not lift mites or dust so it is allergic friendly
- Beneficial impact on the environment thanks to the no emission of harmful substances

### Economic heating

Heating with a heating foil features low consumption of electric power. Because of a short warming up time and a precise control of temperature, the electric heating will never be associated with high electricity bills. The heating foil uses the capability to store heat through the surface layer, which, while heating up in a few minutes, gives heat to the room for several dozen minutes, without electricity consumption during this time. For example, a heating foil takes energy for one minute and heats up a floor panel to the desired temperature. Then the panel gives back heat to the room for 30 minutes without electricity consumption during this time, keeping the set temperature in the room.





## ■ Heating houses and flats

The use of heating foil system as the basic heating of houses, flats or as an alternative for currently mounted heating. In addition, the foil can be used as a heater and a system preventing a mirror from fogging.



## ■ Hotels and guesthouses

Individual heating of individual rooms in hotels guarantees the cheapest costs of heating. We avoid unnecessary heating of the interior at low attendance, a dynamic start guarantees heat in the short time.



## ■ Restaurants

Lack of heaters enables freedom of interior arrangement. Surface heating controlled from the thermoregulator level guarantees full temperature control in all zones, reducing exploitation costs.



## ■ Churches

Heating up sacred objects with heating foils is an efficient way to provide the faithful with heat. The heating foil system guarantees immediate heating to the faithful and the lowest operating costs.



## ■ Office

Heating with our heating system guarantees heating comfort in our work place. Unheated room does not generate running costs.



## ■ Fitness

The use of surface heating guarantees a precise temperature control, does not dry the air, creating an ideal climate for exercising persons.



## ■ Nursery schools

A heating foil ensures a warm floor. In the opposite of the other forms of heating, it makes ideal conditions for science and play for our children.



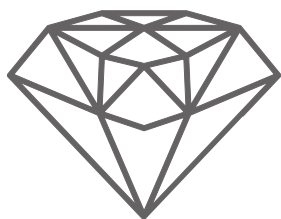
## ■ Camping / Caravanning

A heating foil powered by direct current is an ideal source of warm in the caravans and everywhere where we have no access to the 230V network.

# SPECIFICATION

| Model       | Width | Thickness | Power rm | Power m <sup>2</sup> | Roll length | Roll weight | Maximum temperature | Voltage |
|-------------|-------|-----------|----------|----------------------|-------------|-------------|---------------------|---------|
| TF-3025T    | 25cm  | 0.338mm   | 55W      | 220W                 | 150m        | 19kg        | 55 °C               | AC230V  |
| TF-305T     | 50cm  | 0.338mm   | 110W     | 220W                 | 150m        | 39kg        | 55 °C               | AC230V  |
| TF-310T     | 100cm | 0.338mm   | 220W     | 220W                 | 100m        | 49kg        | 55 °C               | AC230V  |
| TF-3025TL   | 25cm  | 0.338mm   | 35W      | 140W                 | 150m        | 19kg        | 42 °C               | AC230V  |
| TF-305TL    | 50cm  | 0.338mm   | 70W      | 140W                 | 150m        | 39kg        | 42 °C               | AC230V  |
| TF-310TL    | 100cm | 0.338mm   | 140W     | 140W                 | 100m        | 49kg        | 42 °C               | AC230V  |
| TF-3025TT   | 25cm  | 0.338mm   | 20W      | 80W                  | 150m        | 19kg        | 32 °C               | AC230V  |
| TF-305TT    | 50cm  | 0.338mm   | 40W      | 80W                  | 150m        | 39kg        | 32 °C               | AC230V  |
| TF-310TT    | 100cm | 0.338mm   | 80W      | 80W                  | 100m        | 49kg        | 32 °C               | AC230V  |
| TF-3025TH   | 25cm  | 0.338mm   | 15W      | 60W                  | 150m        | 29kg        | 29 °C               | AC230V  |
| TF-305TH    | 50cm  | 0.338mm   | 30W      | 60W                  | 150m        | 39kg        | 29 °C               | AC230V  |
| TF-310TH    | 100cm | 0.338mm   | 60W      | 60W                  | 100m        | 49kg        | 29 °C               | AC230V  |
| TF-305ET    | 50cm  | 0.338mm   | 200W     | 400W                 | 150m        | 38kg        | 75 °C               | AC230V  |
| TF-303DC12V | 30cm  | 0.338mm   | 67W      | 220W                 | 150m        | 23kg        | 55 °C               | DC12V   |





## TERMOFOL DIAMOND

Technologically advanced product incorporating the latest scientific experience in the field of nano-molecular carbon structures

**TERMOFOL DIAMOND** is a PREMIUM brand of TERMOFOL products characterised by special care for above-standard design and quality. The heating films of the TERMOFOL DIAMOND line are manufactured based on ultra-modern technological solutions. In the production process of the heating films of the TERMOFOL DIAMOND line, we use the latest scientific experience in the field of nano-molecular carbon structures. This allows you to achieve the highest quality and durability of the product while maintaining all the advantages of infrared heating.

As in the classic version, the base of the TERMOFOL DIAMOND heating film is PET foil, however, thanks to its increased thickness and stiffness, it is characterized by a much higher resistance to mechanical damage and abrasion. Invariably, also in the PREMIUM version, the heating film shows considerable insulation and fire resistance, thanks to which the entire system is very safe. The heating films of the TERMOFOL DIAMOND line are powered by a highly conductive copper connecting tape which supplies the modified carbon heating sections.





# SPECIFICATION

| Model     | Width  | Thickness | Power/running meter | Power/m <sup>2</sup> | Roll lenght | Roll weight | Maximum temperature | Voltage |
|-----------|--------|-----------|---------------------|----------------------|-------------|-------------|---------------------|---------|
| DTF-505T  | 50 cm  | 0,370 mm  | 110 W               | 220 W                | 130m        | 39kg        | 55 °C               | AC230V  |
| DTF-510T  | 100 cm | 0,370 mm  | 220 W               | 220 W                | 80m         | 41kg        | 55 °C               | AC230V  |
| DTF-505TL | 50 cm  | 0,370 mm  | 70 W                | 140 W                | 130m        | 39kg        | 42 °C               | AC230V  |
| DTF-510TL | 100 cm | 0,370 mm  | 140 W               | 140 W                | 80m         | 41kg        | 42 °C               | AC230V  |
| DTF-505TT | 50 cm  | 0,370 mm  | 40 W                | 80 W                 | 130m        | 39kg        | 32 °C               | AC230V  |
| DTF-510TT | 100 cm | 0,370 mm  | 80 W                | 80 W                 | 80m         | 41kg        | 32 °C               | AC230V  |
| DTF-505TH | 50 cm  | 0,370 mm  | 30 W                | 60 W                 | 130m        | 39kg        | 29 °C               | AC230V  |
| DTF-510TH | 100 cm | 0,370 mm  | 60 W                | 60 W                 | 80m         | 41kg        | 29 °C               | AC230V  |

Products of the **TERMOFOL DIAMOND** line are available only as a part of matched sales featuring combined design and installation service provided by Termofol Sp. z o. o. and its network of installers certified by this brand. This enables us to maintain greater control over quality in terms of both technical advice and the installation process and user training.

Thanks to cyclical theoretical and practical training, as well as rigorous adherence to the guidelines for the design and construction of installations, we can offer investors as much as a **30-year warranty!** Whereas studies carried out allow us to estimate its useful life at around 100 years!



# ● TERMOFOL SUPERTERM INSULATION PAD

## Designed for achieving the highest efficiency in underfloor heating

The Termofol Superterm insulation pad is designed for the performance of insulation between floor panels and concrete substrate. It can be used in construction and public utility buildings. It perfectly protects against heat loss, levels the subfloor and reduces unwanted noise in the rooms. It is an excellent barrier to fungal and mould growth.

The Superterm insulation pad offered by Termofol has been tested according to the standards used in the recommendation of the Association of European Producers of Vinyl Flooring and has a declaration of conformity with the CEN/TS 16354:2012 European standard.

1. Concrete substrate,
2. Termofol Superterm insulation pad (6 mm),
3. Heating film,
4. Vapour barrier film,
5. Vinyl panels (5 mm).



Flammability  
class

**E**



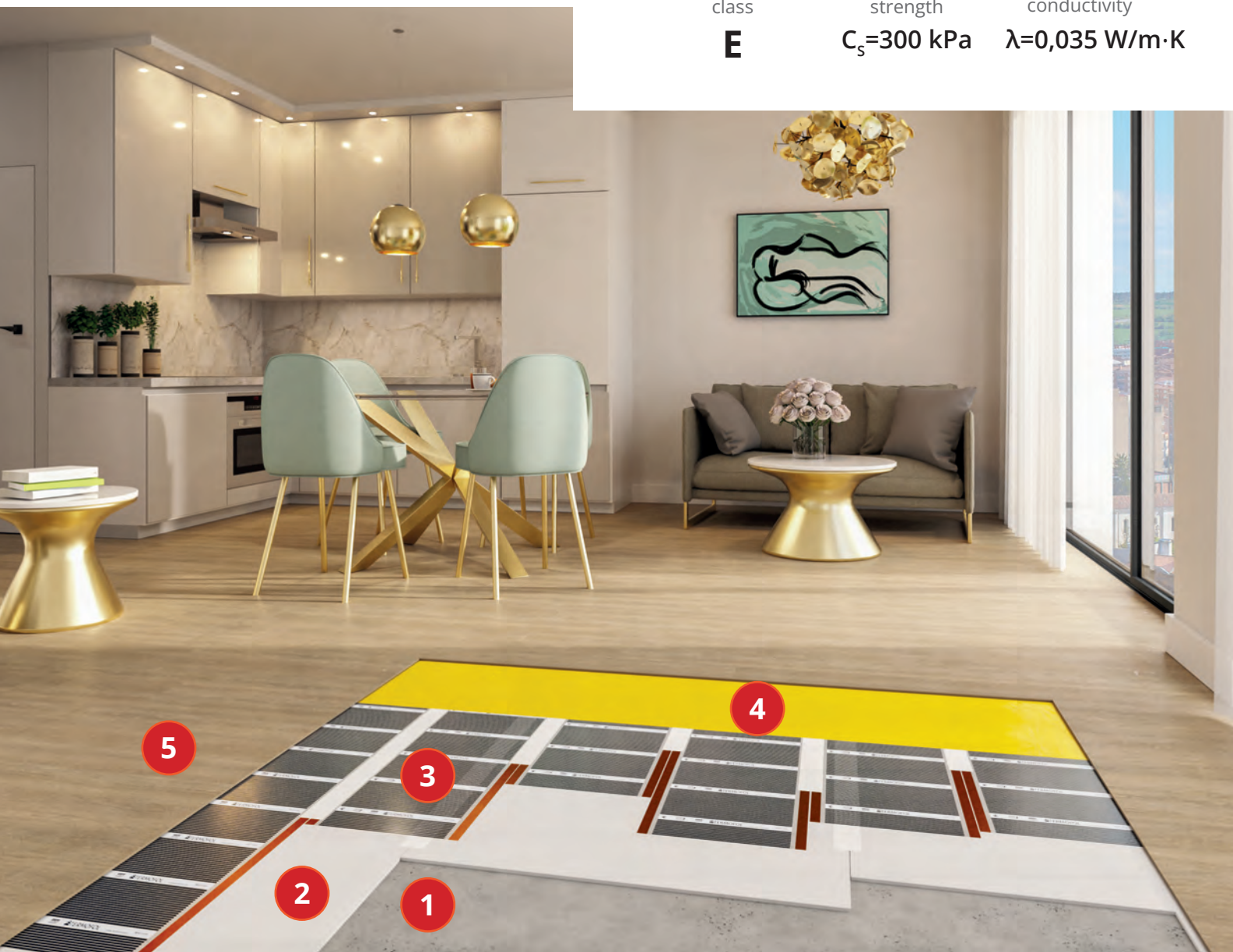
Compressive  
strength

$C_s=300$  kPa



Thermal  
conductivity

$\lambda=0,035$  W/m·K



# SPECIFICATION

| No. | Parameter name   | Symbol [unit]                  | Standard   | Superterm (1200 x 800 x 6mm) |
|-----|--|--------------------------------|------------|------------------------------|
| 1   | Tolerance for thickness  | [mm]                           | EN 822     | ± 0,5                        |
| 2   | Tolerance for length   | [mm]                           | EN 822     | ± 5                          |
| 3   | Tolerance for width  | [mm]                           | EN 822     | ± 1                          |
| 4   | Rectangularity   | [mm/m]                         | EN 824     | ≤ 5                          |
| 5   | Density (bulk)   | kg/m <sup>3</sup>              | EN 1602    | > 30                         |
| 6   | Thermal conductivity   | λ [W/(m•K)]                    | EN 13164   | 0,035                        |
| 7   | Tensile strength   | kPa                            | EN 1607    | ≥ 600                        |
| 8   | Reaction to fire   | flammability class             | EN 13501-1 | E                            |
| 9   | Deformation at specified compressive load and temperature: 40 kPa, 70 °C, 168h | [%]                            | EN 1605    | ≤ 5                          |
| 10  | Dimensional stability 70 °C, 90% RH, 48h                                       | DS.(70,90) [%]                 | EN 1604    | ≤ 5                          |
| 11  | Compressive strength<br>Compressive stress at 10% relative strain              | CS(10/Y) [kPa]                 | EN 826     | 300                          |
| 12  | Long-term water absorption by immersion  | WL(T) [% obj]                  | EN 12087   | ≤ 1                          |
| 13  | Water vapour permeability<br>Coefficient of water vapour diffusion resistance  | [m]                            | EN 12086   | mar.16                       |
| 14  | Temperature range  | °C                             | -          | -50/+75                      |
| 15  | Coefficient of linear expansion (A) / thermal expansion (J)                    | [mm/m delta T60 °C] / mm / m•K | -          | 0,07                         |

## Product properties:

- Specially developed for vinyl floating flooring.
- Compensates for local subfloor irregularities up to 0.88mm, while eliminating the necessity of repairing the subfloor.
- Ensures quick disassembly of the flooring without damaging the floor.
- Designed to achieve the highest efficiency of underfloor heating.
- Improves acoustic comfort – high level of flooring silencing in the room.
- High resistance to loads.
- XPS material.
- 100% recyclable, CFC-free, protects the ozone layer.
- Environmentally friendly.



Termofol Superterm insulating pad with the thickness of 6 mm holds good in case of underfloor heating and rooms particularly exposed to moisture.

# LAMINATE INSULATION PAD

## Double laminated insulation pad under laminated panels and layered board

TERMOFOL double laminated insulation pads with the thickness of: 3mm and 5mm, respectively are intended for the use in floors with underfloor heating as a base for infrared heating films on which a vapour barrier film is laid and then a floating flooring of wood and wood-based laminate panels. The TERMOFOL insulation pad is used to level and compensate for slight unevenness of the surface.

The top layer of the insulation pad is laminated with PET foil with a printed grid (5cm x 5cm) to facilitate the installation. The bottom layer is laminated with metallised reflective PET foil (ALU). The insulation pad is used under laminated panels and layered boards. It is not used under vinyl panels. It is available in two thicknesses: 3mm and 5mm. The insulation pad is placed under heating films in order to reflect heat upwards.

1. Concrete substrate,
2. Termofol insulation pad (5mm),
3. Heating film,
4. Vapour barrier film,
5. Double-layer board.



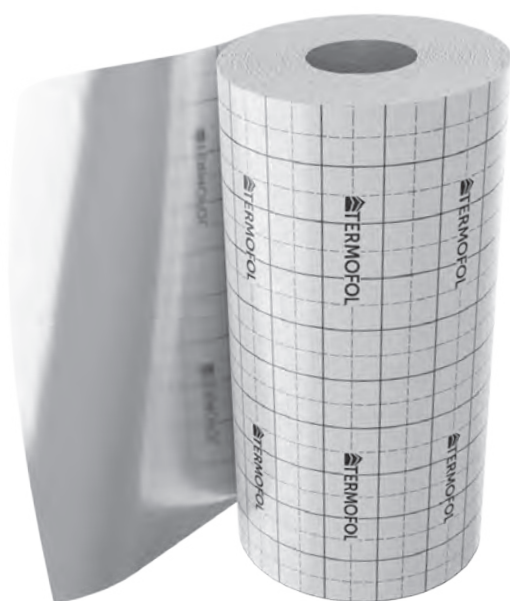
## SPECIFICATION

Termofol double-laminated insulation pads with the thickness of: 3 mm and 5 mm work out perfectly with underfloor heating and in rooms particularly exposed to humidity.



### Product properties:

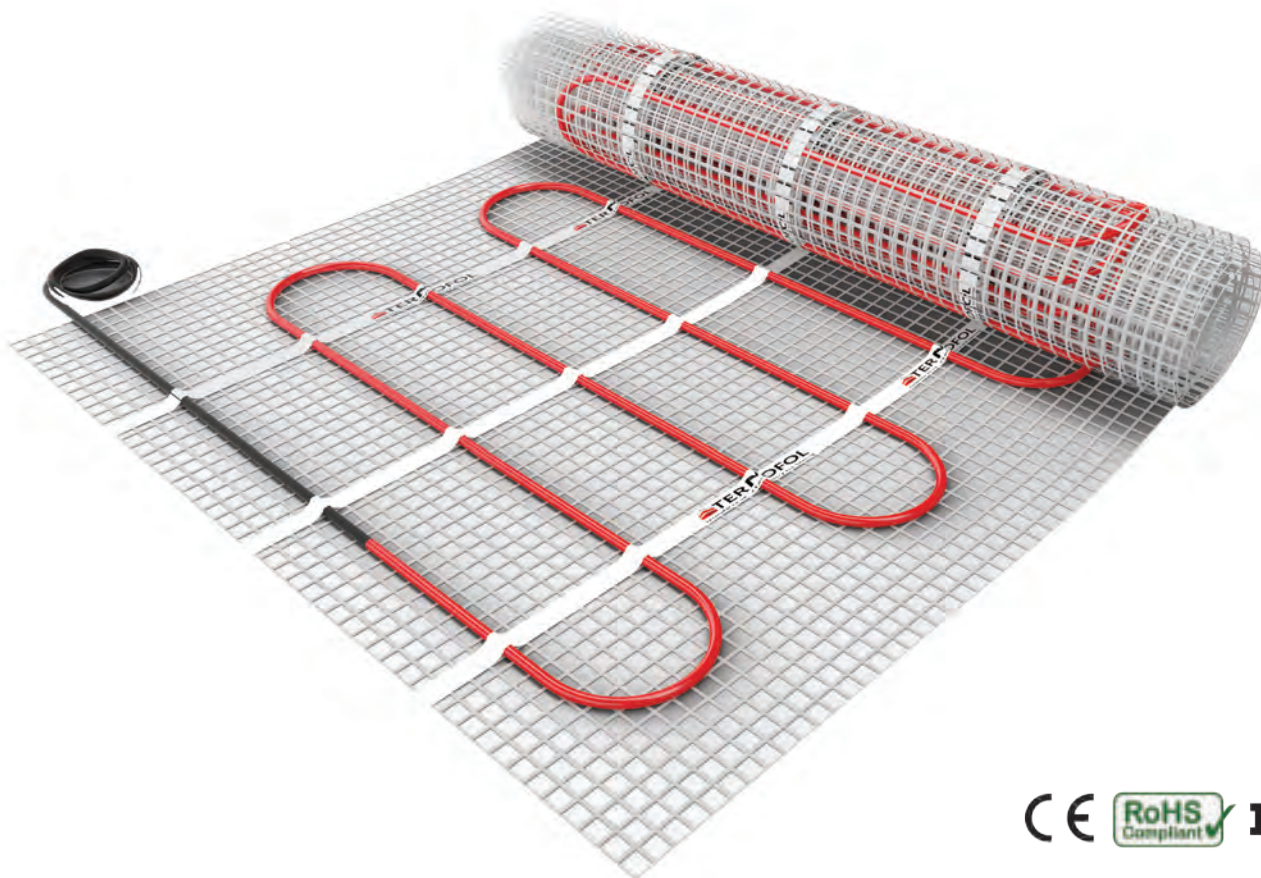
- Specially developed for laminated panels.
- It levels local irregularities of the subfloor eliminating the necessity of repairing the subfloor.
- Ensures quick disassembly of the flooring without damaging the floor.
- Designed to achieve the highest efficiency of underfloor heating.
- Improves acoustic comfort – high level of flooring silencing in the room.
- High resistance to loads.
- Environmentally friendly.



| Model     | Width  | Thickness | Roll length | Roll weight |
|-----------|--------|-----------|-------------|-------------|
| TF-PI-5MM | 100 cm | 5 mm      | 50 r. m.    | 22 kg       |
| TF-PI-3MM | 100 cm | 3 mm      | 50 r. m.    | 18 kg       |

Termofol double-side laminated insulation pad with the thickness of 3 mm and 5 mm on both sides is intended for use in floors with underfloor heating as a pad under infrared heating films on which a vapour barrier film is installed and then a floating flooring of wooden and wood-based laminated elements. The pad is used to level and compensate for slight unevenness of the insulation pads.

A floor heating set of the TERMOFOL TF-HM-150 series is intended for heating floors covered with ceramic, stone or stoneware tiles. The set includes all elements necessary for DIY mounting. The power of 150 W/m guarantees better dynamic of heating. We mount the mat directly in a layer of elastic glue or in a thin layer of concrete floor. A self-adhesive net made of fiberglass makes easier to arrange the heating mat on the base and the one-side power supply definitely makes mounting easier. TERMOFOL heating mats are safe in use, double isolated and shielded along the full heating cable length what protects from electromagnetic radiation or a possible electric shock.



## Advantages of TERMOFOL heating mats

- A possibility of mounting with glue under a ceramic tile
- Thickness of the heating mat: 3.6 mm
- A possibility of mounting on the existing floor without the need of chiseling the old one
- The mat is self-adhesive – mounting is fast and easy
- After mounting the heating installation is invisible
- Safety of use
- Low costs of installation and exploitation
- The system does not require maintenance
- One-way power supply
- No electromagnetic field
- Warranty: 25 years

## ■ CAUTION

For proper functioning, the heating mat must be connected to a thermoregulator!

# SPECIFICATION

| Model         | Heating width [m <sup>2</sup> ] | Mat dimension | Cable diameter [mm] | Power [m <sup>2</sup> ] | Mat power | Amp   | Ohms  | Voltage |
|---------------|---------------------------------|---------------|---------------------|-------------------------|-----------|-------|-------|---------|
| TF-HM-150-05  | 0,5                             | 0,5 x 1       | 3.6 mm              | 150                     | 75        | 0.35  | 601,2 | 230V    |
| TF-HM-150-10  | 1                               | 0,5 x 2       | 3.6 mm              | 150                     | 150       | 0.7   | 352,7 | 230V    |
| TF-HM-150-15  | 1,5                             | 0,5 x 3       | 3.6 mm              | 150                     | 225       | 1.0   | 235,1 | 230V    |
| TF-HM-150-20  | 2                               | 0,5 x 4       | 3.6 mm              | 150                     | 300       | 1.3   | 176,3 | 230V    |
| TF-HM-150-25  | 2,5                             | 0,5 x 5       | 3.6 mm              | 150                     | 375       | 1.6   | 141,1 | 230V    |
| TF-HM-150-30  | 3                               | 0,5 x 6       | 3.6 mm              | 150                     | 450       | 2.0   | 117,6 | 230V    |
| TF-HM-150-35  | 3,5                             | 0,5 x 7       | 3.6 mm              | 150                     | 525       | 2.3   | 100,8 | 230V    |
| TF-HM-150-40  | 4                               | 0,5 x 8       | 3.6 mm              | 150                     | 600       | 2.6   | 88,2  | 230V    |
| TF-HM-150-45  | 4,5                             | 0,5 x 9       | 3.6 mm              | 150                     | 675       | 2.9   | 78,4  | 230V    |
| TF-HM-150-50  | 5                               | 0,5 x 10      | 3.6 mm              | 150                     | 750       | 3.3   | 70,5  | 230V    |
| TF-HM-150-60  | 6                               | 0,5 x 12      | 3.6 mm              | 150                     | 900       | 3.9   | 58,8  | 230V    |
| TF-HM-150-70  | 7                               | 0,5 x 14      | 3.6 mm              | 150                     | 1050      | 4.6   | 50,4  | 230V    |
| TF-HM-150-80  | 8                               | 0,5 x 16      | 3.6 mm              | 150                     | 1200      | 5.2   | 44,1  | 230V    |
| TF-HM-150-90  | 9                               | 0,5 x 18      | 3.6 mm              | 150                     | 1350      | 5.9   | 39,2  | 230V    |
| TF-HM-150-100 | 10                              | 0,5 x 20      | 3.6 mm              | 150                     | 1500      | 6.5   | 35,3  | 230V    |
| TF-HM-150-120 | 12                              | 0,5 x 24      | 3.6 mm              | 150                     | 1800      | 7.8   | 29,4  | 230V    |
| TF-HM-150-150 | 15                              | 0,5 x 30      | 3.6 mm              | 150                     | 2250      | 9.8   | 23,5  | 230V    |
| TF-HM-150-200 | 20                              | 0,5 x 40      | 3.6 mm              | 150                     | 3000      | 13.04 | 17,63 | 230V    |



## ■ Heating mat repair kit: RK-01 model

The kit is used to repair a damaged, broken heating wire in the heating mat, heating cable, heating wire – constant-resistance, one-sided powered one. This kit includes carefully selected components that can work with heating wires that reach temperatures of up to +125 °C on a constant basis.

The kit enables the repair of the Termofo heating mat and constant-resistance heating wires with an external diameter of 3–7 mm

## ● TERMOFOL TERMOTERM

Insulation board intended under Termofol Termoterm heating mats

Effective substrate insulation thanks to the XPS TERMOFOL board. Substrate waterproofing and excellent thermal insulation while maintaining the thickness only of 6 or 12 mm. The product owes its excellent thermal properties to its unique structure.

The centre of the board is made of foamed, extruded polystyrene. The structure in the form of closed cells guarantees effective thermal insulation. The outer part of the board is covered with a specialised polymer mass with the addition of resin in which a glass fibre mesh is embedded. This technology guarantees the low weight of the board and, at the same time, exceptional resistance to damage.

### SPECIFICATION:

Thickness: 6mm, 12mm

Area [m<sup>2</sup>]: 0.72

Coefficient of thermal conductivity:

$\lambda = 0.033 \text{ W / (mK)}$

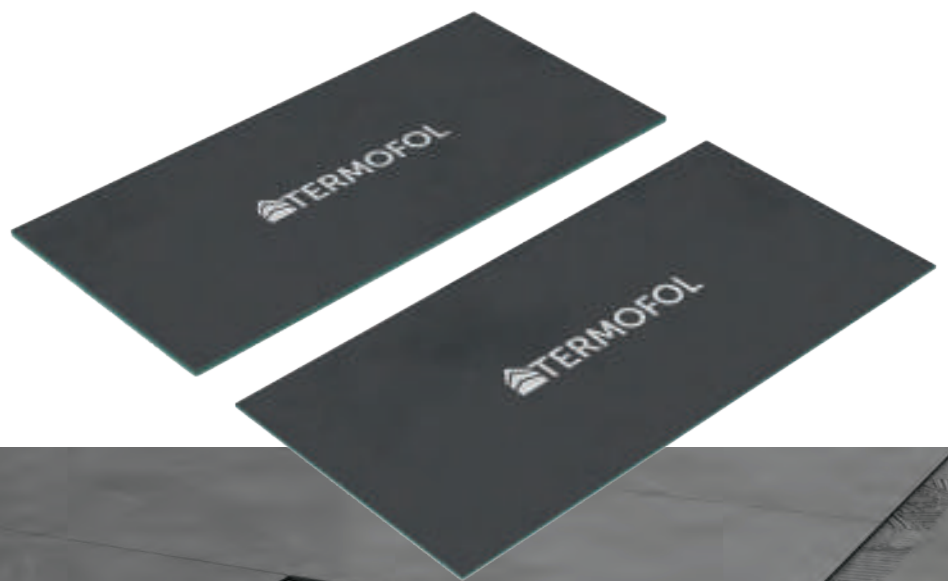
XPS foam density:  $32 \pm 0.02 \text{ kg / m}^3$

Fire resistance class:

E (hardly flammable)

Compressive strength:

min. 300kPa at 10% deformation



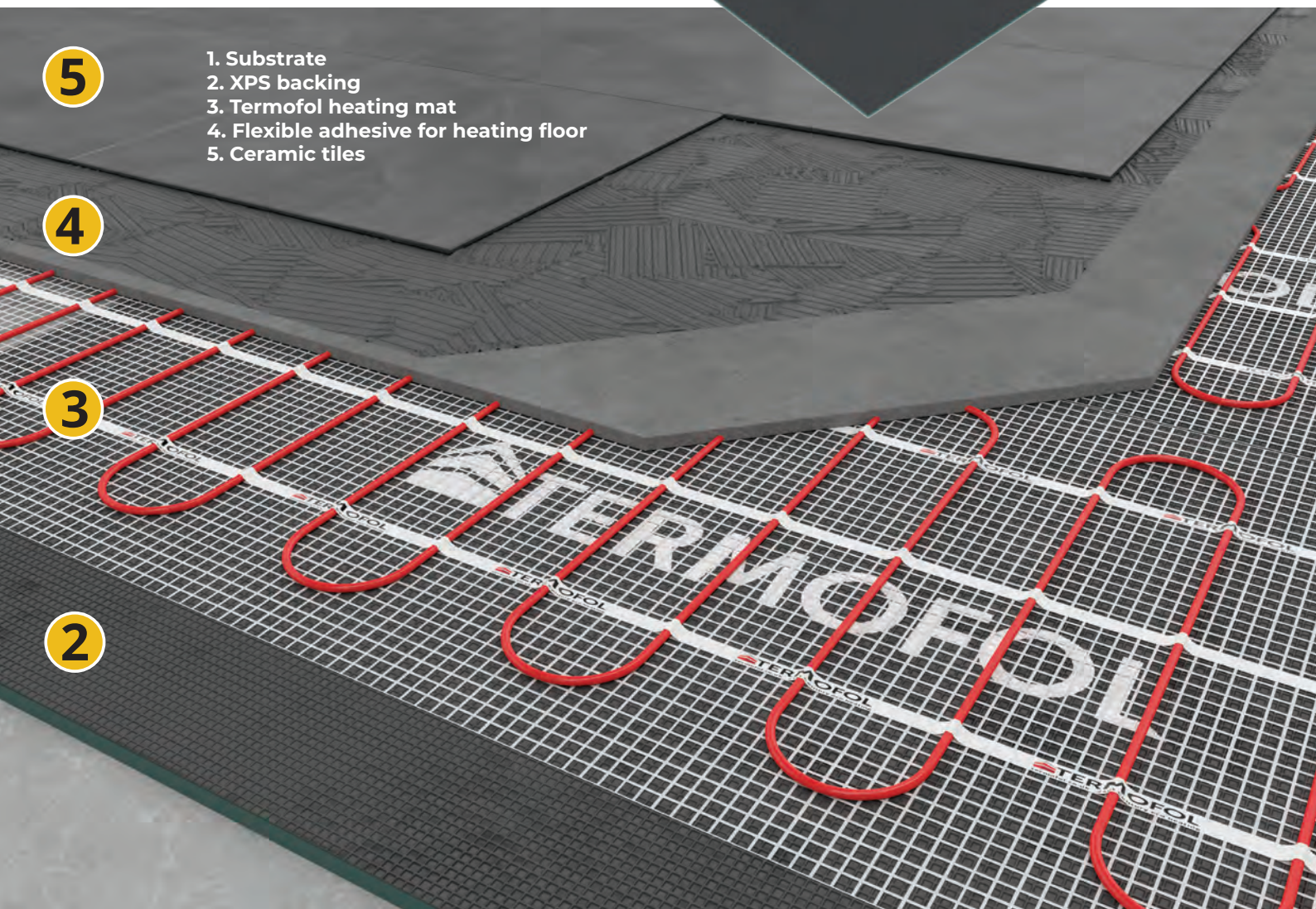
5

1. Substrate
2. XPS backing
3. Termofol heating mat
4. Flexible adhesive for heating floor
5. Ceramic tiles

4

3

2







**TERMOFOL HEATING MATS**

UNIQUE  
EXPERIENCE

# TF-KGJZ HEATING CABLES

## ■ Termofol TF-KGJZ v. 10W/m

| Model           | Length [m] | Diameter [mm] | Power [W/m] | Cable power [W] | Operating voltage [V] |
|-----------------|------------|---------------|-------------|-----------------|-----------------------|
| TF-KGJZ 100/10  | 10         | 4.8-5.6 mm    | 10          | 100             | AC230V                |
| TF-KGJZ 150/10  | 15         | 4.8-5.6 mm    | 10          | 150             | AC230V                |
| TF-KGJZ 200/10  | 20         | 4.8-5.6 mm    | 10          | 200             | AC230V                |
| TF-KGJZ 250/10  | 25         | 4.8-5.6 mm    | 10          | 250             | AC230V                |
| TF-KGJZ 300/10  | 30         | 4.8-5.6 mm    | 10          | 300             | AC230V                |
| TF-KGJZ 350/10  | 35         | 4.8-5.6 mm    | 10          | 350             | AC230V                |
| TF-KGJZ 400/10  | 40         | 4.8-5.6 mm    | 10          | 400             | AC230V                |
| TF-KGJZ 450/10  | 45         | 4.8-5.6 mm    | 10          | 450             | AC230V                |
| TF-KGJZ 500/10  | 50         | 4.8-5.6 mm    | 10          | 500             | AC230V                |
| TF-KGJZ 600/10  | 60         | 4.8-5.6 mm    | 10          | 600             | AC230V                |
| TF-KGJZ 700/10  | 70         | 4.8-5.6 mm    | 10          | 700             | AC230V                |
| TF-KGJZ 800/10  | 80         | 4.8-5.6 mm    | 10          | 800             | AC230V                |
| TF-KGJZ 900/10  | 90         | 4.8-5.6 mm    | 10          | 900             | AC230V                |
| TF-KGJZ 1000/10 | 100        | 4.8-5.6 mm    | 10          | 1000            | AC230V                |
| TF-KGJZ 1200/10 | 120        | 4.8-5.6 mm    | 10          | 1200            | AC230V                |
| TF-KGJZ 1400/10 | 140        | 4.8-5.6 mm    | 10          | 1400            | AC230V                |
| TF-KGJZ 1600/10 | 160        | 4.8-5.6 mm    | 10          | 1600            | AC230V                |
| TF-KGJZ 2000/10 | 200        | 4.8-5.6 mm    | 10          | 2000            | AC230V                |

## ■ Termofol TF-KGJZ v. 20W/m

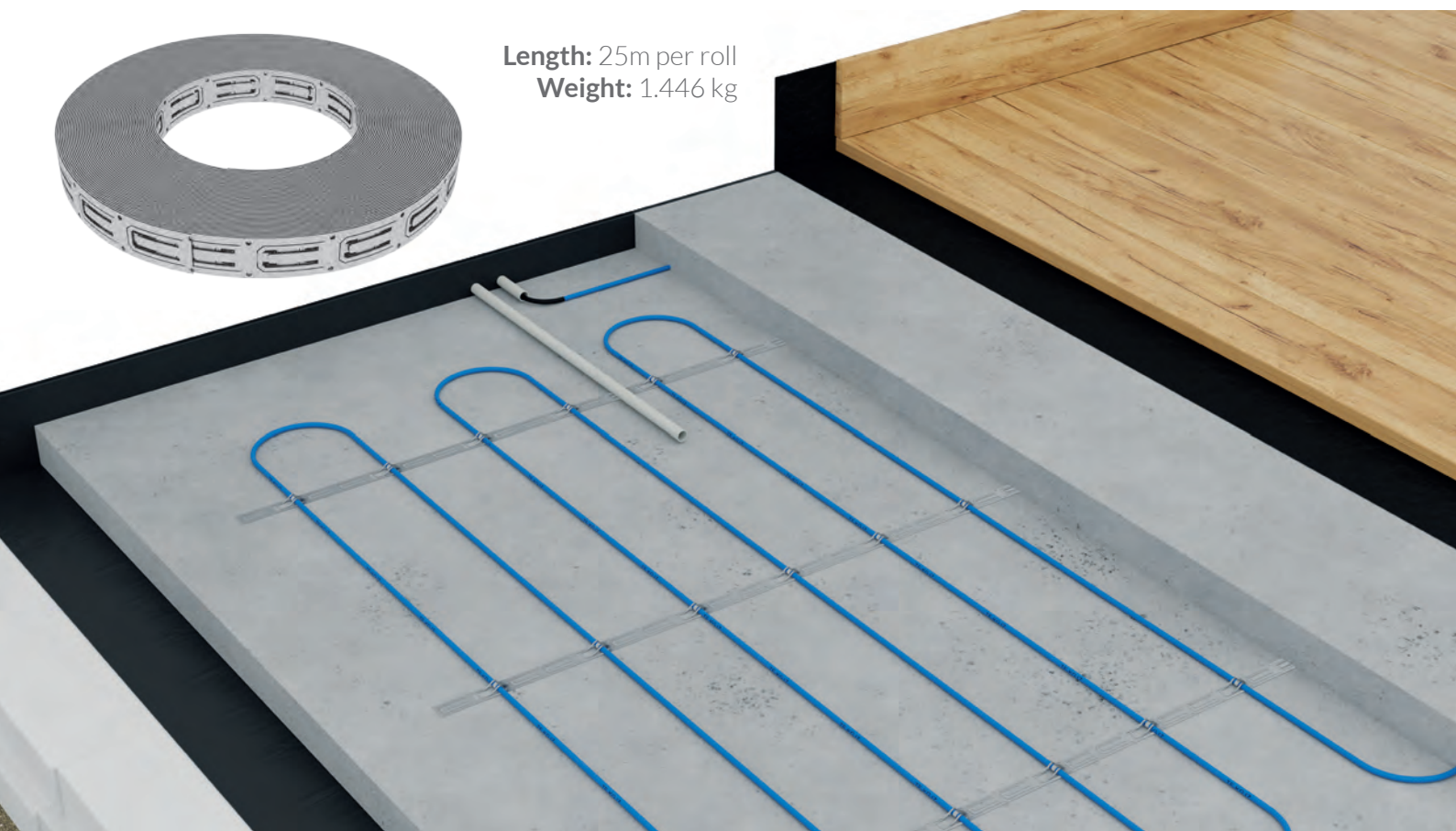
| Model           | Length [m] | Diameter [mm] | Power [W/m] | Cable power [W] | Operating voltage [V] |
|-----------------|------------|---------------|-------------|-----------------|-----------------------|
| TF-KGJZ 150/20  | 7,5        | 4.8-5.6 mm    | 20          | 150             | AC230V                |
| TF-KGJZ 200/20  | 10         | 4.8-5.6 mm    | 20          | 200             | AC230V                |
| TF-KGJZ 300/20  | 15         | 4.8-5.6 mm    | 20          | 300             | AC230V                |
| TF-KGJZ 400/20  | 20         | 4.8-5.6 mm    | 20          | 400             | AC230V                |
| TF-KGJZ 500/20  | 25         | 4.8-5.6 mm    | 20          | 500             | AC230V                |
| TF-KGJZ 600/20  | 30         | 4.8-5.6 mm    | 20          | 600             | AC230V                |
| TF-KGJZ 700/20  | 35         | 4.8-5.6 mm    | 20          | 700             | AC230V                |
| TF-KGJZ 850/20  | 42,5       | 4.8-5.6 mm    | 20          | 850             | AC230V                |
| TF-KGJZ 1000/20 | 50         | 4.8-5.6 mm    | 20          | 1000            | AC230V                |
| TF-KGJZ 1200/20 | 60         | 4.8-5.6 mm    | 20          | 1200            | AC230V                |
| TF-KGJZ 1400/20 | 70         | 4.8-5.6 mm    | 20          | 1400            | AC230V                |
| TF-KGJZ 1600/20 | 80         | 4.8-5.6 mm    | 20          | 1600            | AC230V                |
| TF-KGJZ 1800/20 | 90         | 4.8-5.6 mm    | 20          | 1800            | AC230V                |
| TF-KGJZ 2000/20 | 100        | 4.8-5.6 mm    | 20          | 2000            | AC230V                |
| TF-KGJZ 2200/20 | 110        | 4.8-5.6 mm    | 20          | 2200            | AC230V                |
| TF-KGJZ 2400/20 | 120        | 4.8-5.6 mm    | 20          | 2400            | AC230V                |
| TF-KGJZ 2600/20 | 130        | 4.8-5.6 mm    | 20          | 2600            | AC230V                |
| TF-KGJZ 2800/20 | 140        | 4.8-5.6 mm    | 20          | 2800            | AC230V                |
| TF-KGJZ 3100/20 | 155        | 4.8-5.6 mm    | 20          | 3100            | AC230V                |

## ■ TERMOFOL TF-CW installation tape

TERMOFOL TF-CW insulation tape is intended for the installation of heating cables in underfloor heating systems or external anti-icing systems (with the exception of roof systems).



**Length:** 25m per roll  
**Weight:** 1.446 kg



# ACCUMULATION HEATING

**Termofol TF-KGJZ** heating wires can be the primary heating system for rooms, buildings, being the only self-sufficient source of heat. They can also constitute a supporting heating system, installed to achieve the effect of a warm floor.

Storage underfloor heating is characterised by high thermal inertia, thanks to which we can take advantage of cheaper electricity available in the **G12** tariff from **10p.m.** until **6a.m.** as well as from **01p.m.** until **03p.m.** Electric storage heating must be properly programmed so that the temperature in the room is comfortable.

## Differences between storage and direct underfloor heating

Direct floor heating is characterised by a short heating time and low thermal inertia. This allows us to dynamically change the temperature of the floor as well as precise scheduling. Heating films installed under floating floors and heating mats mounted in a layer of elastic glue are referred to as direct floor heating, while heating cables poured in a layer of concrete substrate are a storage heating floor system. The storage underfloor heating is characterised by high thermal inertia, which makes the heating time of the floor longer, as well as the time of heat transfer to the room. The choice of the system should be adjusted to the investor's individual preferences, but above all to the insulation of the building.



**FULL CONTROL**

OVER THE CLIMATE  
OF YOUR HOME

Both locally and remotely  
from any place in the world

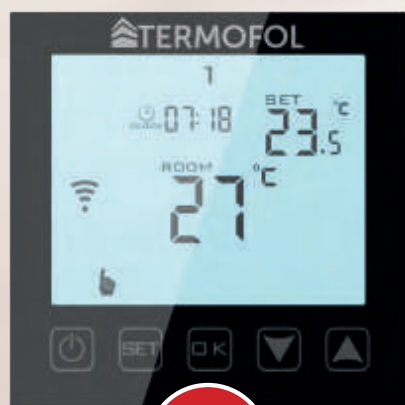


## ● THERMOREGULATORS

Even the simplest heating systems, in order to work optimally, must have an element which controls the temperature of the heating device itself as well as the temperature of the heated medium, such as air or liquid. Various types of thermostats can be used for this purpose.

In the heating systems, a thermostat is usually a device that maintains the set temperature of the air or heating surface through a specific active control of the operation of heating system. During its operation, the thermostat compares the current temperature of the air or heating surface with the set temperature to be reached by the operator and compensates for the difference in temperature by switching the power supply to the heating device on or off. The most popular temperature controllers are based on this simplest principle of switching heating elements of the heating system on and off. These devices regulate the temperature in a comfortable and uncomplicated manner, thanks to which they are easy to operate and have a long useful life. The main advantage of using a room thermostat is saving heating costs and maintaining thermal comfort in the rooms, in which they operate

Temperature regulators can be operated using buttons or knobs. More technically advanced models are operated using a touch-sensitive LED or LCD display. The convenient LCD display is helpful in accurate reading of the temperature and setting the parameters.



# THERMOREGULATORS



## TF-H1 thermoregulator

**TERMOFOL TF-H1 Mark II** is a modern, fully programmable flush-mounted thermoregulator, equipped with a LED control panel, designed to control electric heating systems. The thermoregulator reads the temperature from the in-built and external temperature sensors. The blue backlight is extremely legible, even for people with visual impairments. The following operating modes are also available: room temperature measurement, floor temperature measurement, room with floor temperature limitation.

**Specification:** Power consumption <2 W • supply voltage: 230 V AC 50/60 Hz • maximum switching current: 16A • programmed temperature range: 1 ÷ 70 °C • factory programmed temperature range: 5 ÷ 35 °C • internal air temperature sensor • accuracy: ± 0.5 °C • protection class IP20 • external floor temperature sensor: NTC • manual control • programmable • installation method: flush-mounted in an electrical box • color: white / black • external dimensions: 86 mm x 86 mm x 27 mm



## TF-H2 thermoregulator

**TERMOFOL TF-H2 Mark II** is a modern, programmable thermoregulator equipped with a LCD panel, designed to control electric heating systems. The thermoregulator is designed for surface mounting. The device can work in one of 3 modes: room temperature measurement, floor temperature measurement and room temperature measurement with floor temperature limitation. Thermostat used for electric floor, wall and ceiling heating as well as for electric heaters.

**Specification:** power consumption <3 W • supply voltage: 230 V AC 50/60 Hz • maximum switching current: 20A • programmed temperature range: 1 ÷ 99 °C • factory programmed temperature range: 5 ÷ 35 °C • internal air temperature sensor • accuracy: ± 0.5 °C • protection class IP20 • external floor temperature sensor: NTC • manual control • programmable • installation method: surface-mounted • color: white • external dimensions: 86 mm x 86 mm x 37 mm

## TF-H3 thermoregulator

**TERMOFOL TF-H3** is a manual thermoregulator controlled by a knob. The device operates in the coil heater-floor temperature regulation mode. It is used for electric underfloor heating. The thermoregulator is flush-mounted in the junction box, the set includes a NTC sensor. No programming possible, only a simple temperature change using the knob. LED signalling.



**Specification:** power consumption <2 VA • supply voltage: 230 V AC 50/60 Hz • maximum load on the output: 16A • programmed temperature range: 5 ÷ 40 °C • signaling by a diode • protection class IP21 • external temperature sensor. floors: NTC • manual control • flush mounting – in installation box • color: white • external dimensions: 86 mm x 86 mm x 12 mm • slim shape – only 12mm thick

## TF-H5 thermoregulator

**TERMOFOL TF-H5** is a button-controlled thermoregulator, flush-mounted – in a junction box. Thermostat used for electric floor, wall and ceiling heating as well as for electric heaters. It has the ability to set 6 periods and the appropriate temperature value in a weekly period. Thanks to the double-temperature function of the two temperatures, the temperature of the heating device and the ambient temperature are measured simultaneously. When the temperature of the heating device is higher than the maximum limit temperature, the thermostat stops heating to prevent overheating of the heating device.



**Specification:** power consumption <1.5 W • supply voltage: 230 V AC 50/60 Hz • maximum output load: 16A • programmed temperature range: 5 ÷ 35 °C • limitation of the maximum temperature of the heater – floor: 20 °C – 70 °C • 2 sensors: built-in air temperature sensor + floor temperature sensor – NTC sensor • protection class IP20 • manual control • programmable • installation method: flush-mounted • color: white • temperature programming 5 + 2 (5 days of the week + weekend)



## SPECIFICATION

**Specification:** power consumption <3 W • supply voltage: 230 V AC 50/60 Hz • maximum switching current: 20A • programmed temperature range: 1 ÷ 99 °C • factory programmed temperature range: 5 ÷ 35 °C • internal air temperature sensor • accuracy: ± 0.5 °C • protection class IP20 • external floor temperature sensor: NTC • manual control • programmable • installation method: surface-mounted • color: white • external dimensions: 86 mm x 86 mm x 37 mm

### TF-WIFI thermoregulator

**TERMOFOL TF-WIFI Mark II** is a modern room thermostat used to control underfloor heating. The thermostat is equipped with an in-built temperature sensor (air) and an external NTC sensor. It has a digital display and a touch control panel. The thermoregulator has a built-in WiFi module. The heating is controlled from the level of the smartphone application or from the touch panel. We can also choose the following operating modes: room temperature measurement, floor temperature measurement and room temperature measurement with floor temperature limitation.



The advanced thermostats allow programming of an automatic programme performed in weekly cycles divided into weekdays, Saturdays and Sundays. In the corresponding daily cycle, the temperature is regulated in a specified period of the day, while the day itself is usually divided into hourly configurable periods, of which there are usually about 6. For each period the heating can be programmed to a selected temperature. Programmable thermostats are particularly useful in the winter season.

It is also possible to programme the thermostat so that the kitchen or bathroom is warm earlier, e.g., before waking up, while at night we can maintain a lower temperature. The same applies in the evenings, when you come home to a warm flat after work without having to heat it all day. If the household members sleep longer at the weekend, the unit turns the heating on a few hours later on Saturday and Sunday.

The “Smart Home” idea has also entered the thermostat market. This has led to an increase in the popularity of electronic models of temperature controllers, which can be controlled via a smartphone. During a winter day, it is possible to turn on the heating, e.g., while travelling by car, and then experience the comfort of warmth in the flat when returning home. Up to dozens of devices can be connected to the application and grouped by heating zones or location. If you already have devices connected, you can also download the Termofol Smart application to another telephone, log in to our account and you can control devices from another telephone or tablet. The application also includes weekly and weekend programming. If you leave home for a longer period of time, e.g., for a two-week winter holiday, you can set the entire period to an economy mode, which can be then changed to a comfort mode upon returning home.



## ● THERMOREGULATORS

### TF-H6 thermoregulator

**TERMOFOL TF-H6** is a high-class, fully programmable, programmable thermoregulator equipped with a LED control panel, designed to control electric heating systems. It has an IP31 protection rating that allows the device to be installed inside the bathroom. This parameter is very important because most of the available devices have IP20 protection rating and such devices cannot be installed inside the bathroom.



**Specification:** Supply voltage: 230 V AC 50/60 Hz • color: white • internal air temperature sensor: NTC • external air temperature sensor: NTC • maximum switching current: 16A • programmed temperature range: 1 ÷ 70 °C • factory programmed temperature range: 5 ÷ 35 °C • accuracy: ± 0.5 °C • external dimensions (without frame): 55 mm x 55 mm • external dimensions (with a frame): 82 mm x 82 mm (modular system available) • degree of protection IP31

### TF-H6 WIFI thermoregulator

**TERMOFOL TF-H6 WIFI** has the ability to freely programme the weekly work schedule. The device works with the TERMOFOL Smart and Tuya Smart applications. The entered schedule is repeated every week, so you forget about manually setting the temperature. It is important to be able to change the temperature temporarily. The TF-H6 WIFI thermostat protects household members against potential overheating of the heating system and informs about any irregularities related to the installation. In the event of a failure of the outdoor temperature sensor, the thermostat displays a message and turns off the heating system, so you can be sure that the installation is always safe.



**Specification:** Supply voltage: 230 V AC 50/60 Hz • color: white • internal air temperature sensor: NTC • external air temperature sensor: NTC • maximum switching current: 16A • programmed temperature range: 1 ÷ 70 °C • factory programmed temperature range: 5 ÷ 35 °C • accuracy: ± 0.5 °C • external dimensions (without frame): 55 mm x 55 mm • external dimensions (with a frame): 82 mm x 82 mm (modular system available) • degree of protection IP31 • WIFI

## Smart thermostat TERMOFOL TF-H6 WIFI

Modern room thermostat  
cooperating with electric heating systems

**TERMOFOL TF-H6 WIFI** is the perfect device for advanced control of your heating system. The many years of experience of our engineers have allowed us to develop an advanced thermostat equipped with non-standard functionalities. Increase your and your family's comfort, minimise heat loss and enjoy a perfect device offering many innovative solutions.



### Temperature adjusted to your needs

The thermostat can be freely programmed with the weekly work schedule. The entered schedule is repeated every week, so you forget about manually setting the temperature.



### Electric energy consumption 20% lower

The electronic thermostat optimises a consumption of electric energy by switching the heating on only while the rooms are in use, avoiding unproductive heating of the rooms.

We design products that are modern, economical and convenient. Our newly designed application is inspired by the same idea. Thanks to it you can control the smart thermostat and receive notifications on your iPhone, iPad and a phone with Android system. Our smart thermostat will help you to save energy, but above all you can manage the temperature of your home even when you are anywhere in the world and at any time of the day. The easy-to-use interface allows even a child to operate. High accuracy within 0.5°C enables to keep the comfortable temperature at the level you set. Some features require access to Wi-Fi or 4G Internet.

■ **Termofol Smart**

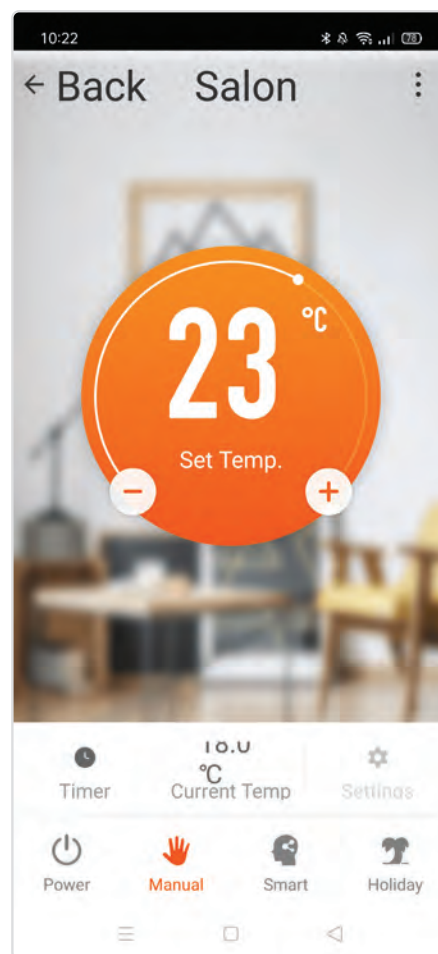
Download for free from Apple App Store (iPhone, iPad) and Google Play (Android phones)



# TERMOFOL SMART

The capabilities of the **TERMOFOL SMART™** application in terms of control convection heaters and ceramic panels of the **TERMOFOL** brand are limited in principle to the invention of a system user. To the most popular and the most frequently used functions belong:

- daily and weekly schedule on/off,
- autonomous energy saving function – holiday,
- use pre-defined time and temperature schedules in a daily and weekly layout,
- a possibility to group devices into sections using pre-defined settings and a joint control,
- check the power supply to the device with alert sending to the operator,
- in the online mode, a possibility of making changes in the settings and to the operation mode both of an individual device and their sections by a remote operator.



## ■ Termofol Smart

## ● DE-ICING HEATING

During winter snowfalls and frosts, it is very important to eliminate slippery pavements, drives or stairs and to safely remove snow overhangs from roofs. This is where de-icing systems are useful, as in addition to providing safety and comfort, they also ensure that the roof and guttering structure is not damaged by accumulating snow and ice.

Our offer includes self-regulating wires, which adjust their heating power to atmospheric conditions, and those with constant heating power (fixed resistance). By installing them, we protect pavements and stairs, drives and ramps, gutters and drain pipes, as well as roof slopes.

Any type of pavement, drive, ramp or stairs can be “cleared of snow’ unattended using heating cables and mats. Regardless of the shape, size of the surface and type of covering - cobblestones, paving stones or stone slabs, concrete, terracotta – a de-icing system is easy to select and simple to install. It is also possible to protect asphalt surfaces.

A typical de-icing system consists of a heating cable and a control system comprising a thermostat and a regulator. Sensors play an important role in this type of systems; they are not only responsible for the smooth operation of the system, but they also contribute to energy savings.

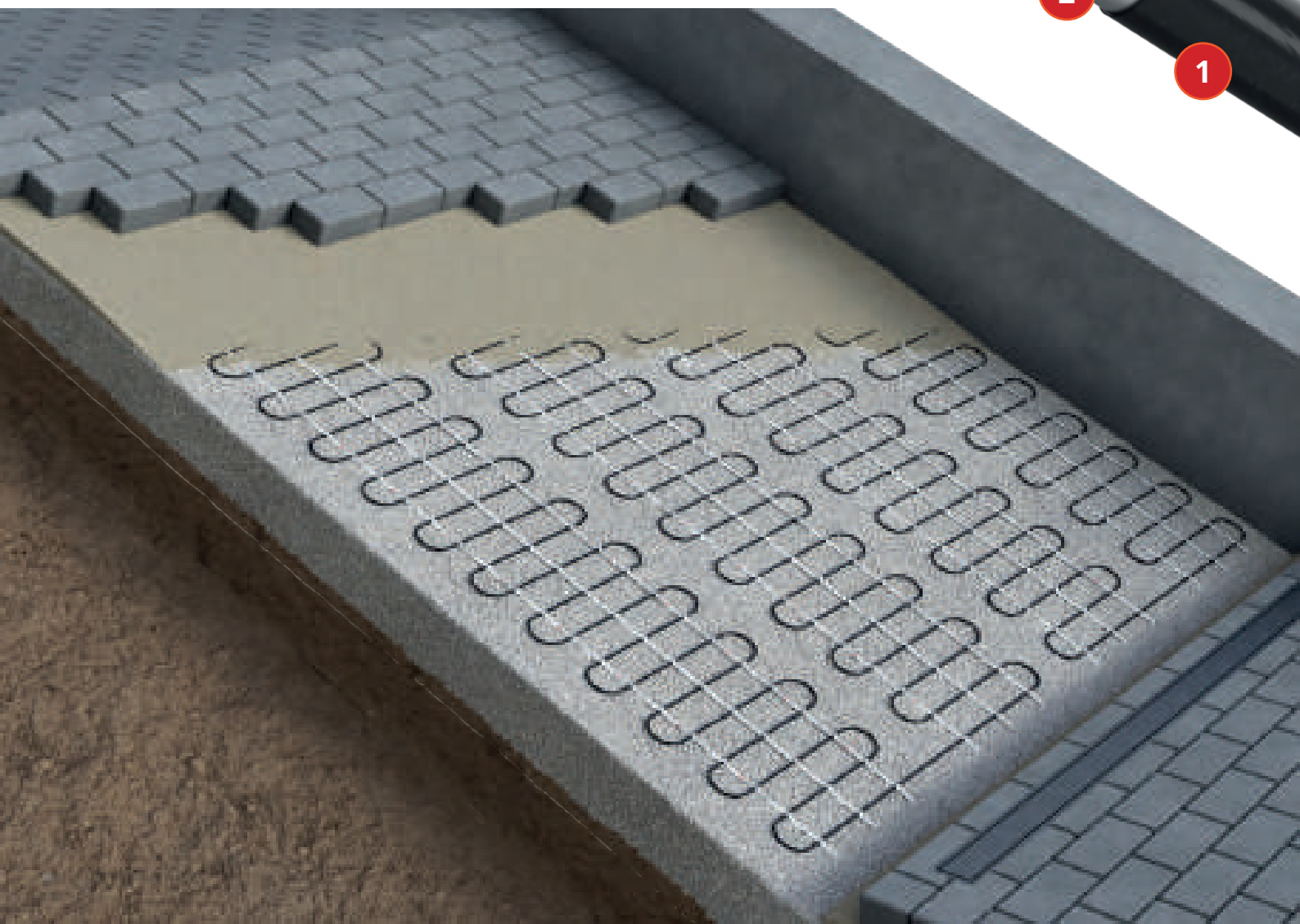
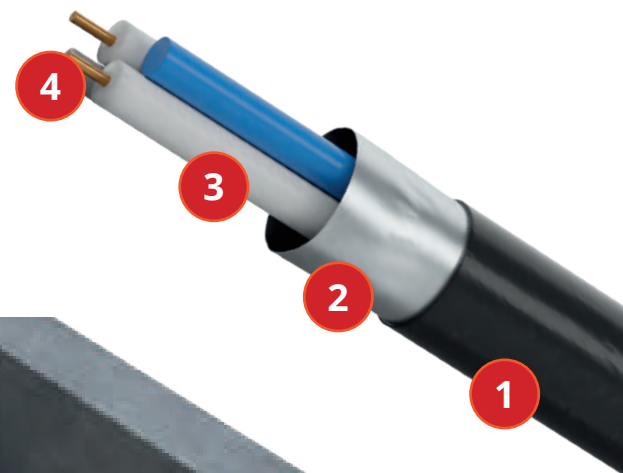


# TF-OHMAT HEATING MAT

When used outdoors, the heating mats develop a smart de-icing system. They are intended for heating up pavements and drives to protect against snow and ice. Properly selected heating mats mean a definite end to winter snow clearance and ensure safety thanks to dry pavement. They are supplied with 230V and installed directly under the surface of cobblestones, paving stones or concrete screed. The mat is laid parallel to the axis of the drive across its entire width or in the wheel tracks of vehicles. The mat consists of a two-conductor shielded heating cable with a braid of tin-plated copper wire attached to plastic strips and one supply wire with a grounding conductor. The outer sheath of the heating cable has additional protection against damage at the electrical connections.

## ■ Termofol TF-OHMAT heating mat for drives

1. Sheath from heat resistant PVC
2. Aluminium foil
3. XLPE insulation
4. Multi-stranded heating conductor



# TF-OHMAT HEATING MAT

## Where the Termofol TF-OHMAT kit is used?

Perfect for de-icing drive surfaces and other traffic routes, e.g., pavements, protection of machine and equipment components, anti-freeze protection of concrete structures.

| Model                  | Surface area [m <sup>2</sup> ] | Length [m] | Dimeter [mm] | Power [W/m <sup>2</sup> ] | Mat power [W] | Operating voltage [V] |
|------------------------|--------------------------------|------------|--------------|---------------------------|---------------|-----------------------|
| TF-OHMAT/300/300/1.0   | 1                              | 2          | 6.0-6.5 mm   | 300                       | 300           | AC230V                |
| TF-OHMAT/300/450/1.5   | 1.5                            | 3          | 6.0-6.5 mm   | 300                       | 450           | AC230V                |
| TF-OHMAT/300/600/2.0   | 2                              | 4          | 6.0-6.5 mm   | 300                       | 600           | AC230V                |
| TF-OHMAT/300/900/3.0   | 3                              | 6          | 6.0-6.5 mm   | 300                       | 900           | AC230V                |
| TF-OHMAT/300/1200/4.0  | 4                              | 8          | 6.0-6.5 mm   | 300                       | 1200          | AC230V                |
| TF-OHMAT/300/1500/5.0  | 5                              | 10         | 6.0-6.5 mm   | 300                       | 1500          | AC230V                |
| TF-OHMAT/300/1800/6.0  | 6                              | 12         | 6.0-6.5 mm   | 300                       | 1800          | AC230V                |
| TF-OHMAT/300/2100/7.0  | 7                              | 14         | 6.0-6.5 mm   | 300                       | 2100          | AC230V                |
| TF-OHMAT/300/2400/8.0  | 8                              | 16         | 6.0-6.5 mm   | 300                       | 2400          | AC230V                |
| TF-OHMAT/300/3000/10.0 | 10                             | 20         | 6.0-6.5 mm   | 300                       | 3000          | AC230V                |
| TF-OHMAT/300/3600/12.0 | 12                             | 24         | 6.0-6.5 mm   | 300                       | 3600          | AC230V                |
| TF-OHMAT/300/4200/14.0 | 14                             | 28         | 6.0-6.5 mm   | 300                       | 4200          | AC230V                |
| TF-OHMAT/300/4800/16.0 | 16                             | 32         | 6.0-6.5 mm   | 300                       | 4800          | AC230V                |





# TF-CW-SR HEATING CABLES

## ■ TERMOFOL TF-CW-SR anti-freeze self-regulating heating cable

Although heating cables have been a well-known solution for years, they are still an unfamiliar issue to many people who are looking for a solution to the problem of freezing pipes. Whereas it is difficult to find a more effective way to protect water installation when temperatures fall below zero. Termofol heating cables have a self-regulating function. Therefore, when the outside temperature drops significantly, the heating cables heat more frequently and intensively, while during light frosts they work intermittently.

### Where heating cables can be used?

The primary task of heating cables is to maintain a safe temperature in the pipes. In the domestic conditions, this is usually the case with water installations outside the building, e.g., supplying water to the garden or another building in the household. This is where there is the highest risk of the water freezing and the pipe failure. A replacement can be costly and time-consuming, particularly if the pipe is laid, for example under a terrace or paving stones.

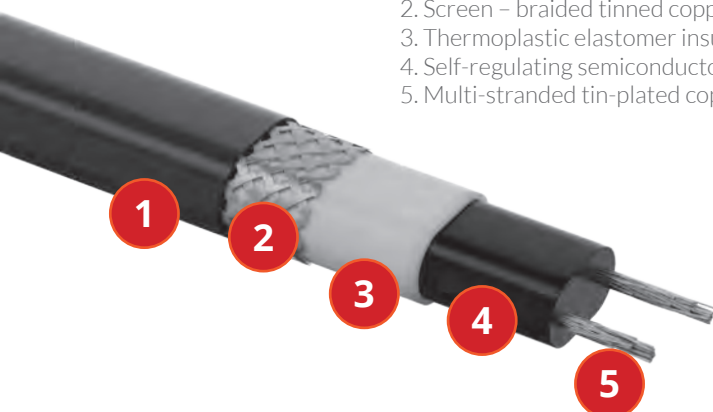
### Advantages:

- Installation inside the pipe,
- Ready to connect,
- Effective anti-freeze protection,
- Safe to use,
- Low installation and operating costs,
- Maintenance-free system.

| Model        | Length [m] | Diameter [mm] | Power [W/m] | Cable power [W] | Operating voltage [V] |
|--------------|------------|---------------|-------------|-----------------|-----------------------|
| TF-CW-SR 1m  | 1          | 8.0×5.1 mm    | 10          | 10              | AC230V                |
| TF-CW-SR 2m  | 2          | 8.0×5.1 mm    | 10          | 20              | AC230V                |
| TF-CW-SR 4m  | 4          | 8.0×5.1 mm    | 10          | 40              | AC230V                |
| TF-CW-SR 6m  | 6          | 8.0×5.1 mm    | 10          | 60              | AC230V                |
| TF-CW-SR 8m  | 8          | 8.0×5.1 mm    | 10          | 80              | AC230V                |
| TF-CW-SR 10m | 10         | 8.0×5.1 mm    | 10          | 100             | AC230V                |
| TF-CW-SR 12m | 12         | 8.0×5.1 mm    | 10          | 120             | AC230V                |
| TF-CW-SR 14m | 14         | 8.0×5.1 mm    | 10          | 140             | AC230V                |
| TF-CW-SR 16m | 16         | 8.0×5.1 mm    | 10          | 160             | AC230V                |
| TF-CW-SR 18m | 18         | 8.0×5.1 mm    | 10          | 180             | AC230V                |
| TF-CW-SR 20m | 20         | 8.0×5.1 mm    | 10          | 200             | AC230V                |
| TF-CW-SR 25m | 25         | 8.0×5.1 mm    | 10          | 250             | AC230V                |
| TF-CW-SR 35m | 35         | 8.0×5.1 mm    | 10          | 350             | AC230V                |



1. Heat-resistant PVC sheath
2. Screen – braided tinned copper wires
3. Thermoplastic elastomer insulation
4. Self-regulating semiconductor core
5. Multi-stranded tin-plated copper heating conductor 20A

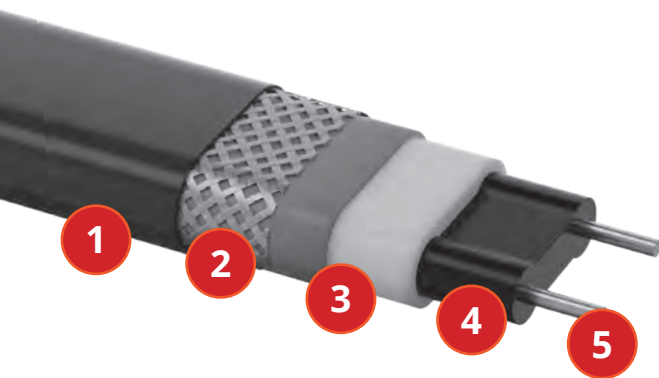


# TF-KGSR HEATING CABLES

## ■ TERMOFOL TF-KGSR self-regulating heating cable

Termofol TF-KGSR-10-2CR cable is a self-regulating (variable-resistance) wire, intended for installation in external de-icing and anti-freezing systems of buildings.

Thanks to the self-regulating power technology, the wire can be used to protect roofs, gutters and pipes, drainage channels, pipelines, as well as to protect the structural components of machinery and equipment. De-icing heating cables are a perfect manner to get rid of ice and freezing snow in gutters, drain pipes and roof slopes located directly above the gutter.



1. Heat-resistant PVC sheath
2. Screen – braided tinned copper wires
3. Thermoplastic elastomer insulation
4. Self-regulating semiconductor core
5. Multi-stranded tin-plated copper heating conductor 20A

| Model               | Dimension [mm] | Cable power [W] | UV resistance | Operating voltage [V] |
|---------------------|----------------|-----------------|---------------|-----------------------|
| TF-KGSR-10-2CR      | 11.0x6.2 mm    | 10              | no            | AC230V                |
| TF-KGSR-16-2CR      | 11.0x6.2 mm    | 16              | no            | AC230V                |
| TF-KGSR-24-2CR      | 11.0x6.2 mm    | 24              | no            | AC230V                |
| TF-KGSR-30-2CR (UV) | 11.0x6.2 mm    | 30              | yes           | AC230V                |
| TF-KGSR-40-2CR (UV) | 11.0x6.2 mm    | 40              | yes           | AC230V                |

TERMOFOL TF-KGSR self-regulating cable can be used to protect pipes and pipelines.



Example of cable installation on rooflines directly above a gutter.

# TF-KZT HEATING CABLES

## ■ Termofol TF-KZT heating cable integrated with thermostat

Termofol TF-KZT is a heating cable that protects pipes and valves against icing even within the most severe winter. With the Termofol TF-KZT protection system you do not have to worry about the water pipes or valves in unheated rooms and outside the building. The assembly of the system is fast and simple - the cable itself is installed on the pipe. The operation of the system does not require control, because the heating cable is equipped with a thermostat. Designed for installation on pipelines and tanks protected by 10mm thick thermal insulation. It does not require the installation of a separate control as in the case of traditional heating cables. The Termofol TF-KZT heating cable is highly effective, easy to install and maintenance free. It works very well in residential buildings, as well as residential facilities intended for recreational purposes.

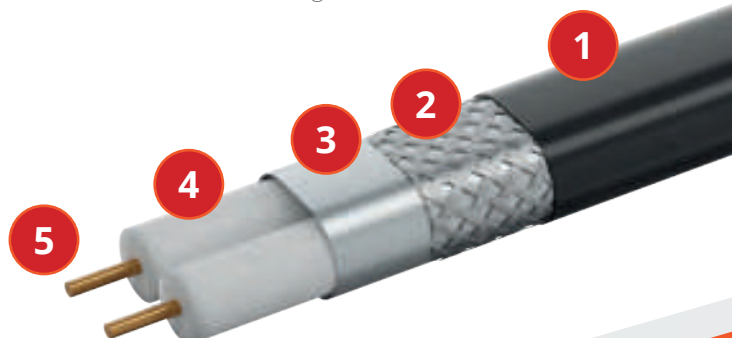


| Model         | Length [m] | Cable power [W] | Operating voltage [V] |
|---------------|------------|-----------------|-----------------------|
| TF-KZT-30-2   | 2          | 30              | AC230V                |
| TF-KZT-60-4   | 4          | 60              | AC230V                |
| TF-KZT-75-5   | 5          | 75              | AC230V                |
| TF-KZT-90-6   | 6          | 90              | AC230V                |
| TF-KZT-120-8  | 8          | 120             | AC230V                |
| TF-KZT-150-10 | 10         | 150             | AC230V                |
| TF-KZT-180-12 | 12         | 180             | AC230V                |
| TF-KZT-210-14 | 14         | 210             | AC230V                |
| TF-KZT-225-15 | 15         | 225             | AC230V                |
| TF-KZT-270-18 | 18         | 270             | AC230V                |
| TF-KZT-300-20 | 20         | 300             | AC230V                |
| TF-KZT-360-24 | 24         | 360             | AC230V                |
| TF-KZT-375-25 | 25         | 375             | AC230V                |



Example of installation of the heating cable on the insulated pipelines.

1. Heat-resistant PVC sheath
2. Screen - braided tinned copper wires
3. Aluminium foil
4. XLPE insulation
5. Multi-stranded heating conductor



## Thermoregulator TF-M1

The **TF-M1 thermoregulator** is used to control electric heating systems designed to protect against ice and snow (e.g. protection of gutters and downspouts, protection of driveways against icing, prevention of snow accumulation on roofs, anti-icing protection of stairs, etc.). one zone. Manual control with knobs. It is not programmable. Mounting method: on a DIN rail. LED signalling.



**Specification:** Supply voltage: 230V, 50-60Hz • output relay (potential contact, NO): 16 A • Hysteresis: 0.3K • temperature adjustment range: from 0 °C to +10 °C • controller housing tightness: IP 20 • clock: switch-off delay setting from 0 to 5 hours • weight: 200g • dimensions: H 86 W 52 D 59 mm.

## Thermoregulator TF-M2

The **TF-M2 thermoregulator** is used to control electric heating systems designed to protect against ice and snow (e.g. protection of gutters and downspouts, protection of driveways against icing, prevention of snow accumulation on roofs, anti-icing protection of stairs, etc.). two zones. All parameters that will be defined in the programme are visible on the liquid crystal display. Manual control with a knob. Mounting method: on a DIN rail.



**Specification:** Supply voltage: 120 / 230V, 50-60Hz • built-in transformer: 24 VAC, 6 VA • three output relays (potential-free contact): 3 × 16 A • one auxiliary relay (potential-free contact): 5A • hysteresis: 0.3K • temperature adjustment range: from 0 °C to +5 °C • weight: 600g • dimensions: height 90 width 156 depth 45 mm • tightness of the controller housing for surface mounting: IP 21



## Ground sensor ETOG-56T

Integrated humidity and temperature sensor for heating control systems for drives, stairs and pavements. It works with the TF-M1 and TF-M2 thermoregulators. Installation: in the ground. Casing tightness: IP 68. Dimensions: height 32; Ø 60 mm. Measurement of: humidity and temperature. 6-wire cable, length 25m.



## Mounting sleeve ETOK

Mounting sleeve for the temperature and the ETOG humidity sensor. It is a durable housing that facilitates the installation of the sensor. It is designed for installation in the ground outside the house, in systems to protect drives, pavements and stairs against ice and snow.



## ETOR-55 gutter humidity sensor

The ETOR humidity sensor is a gutter sensor that reads the humidity. It is designed for direct installation in gutters, on roofs, in drainage channels, drain pipes, etc. The power cable of the sensor should be mounted in a protective tube. The factory length of the power cord is 10m. This cable can be extended up to 200m. The sensor works with the TF- M1 and TF-M2 thermoregulators.



## External ETF sensor

The ETF temperature sensor is a sensor used to read the air temperature, in a hermetic casing with the IP 67 Ingress Protection Rating. The sensor should be located on the northern side of the building. It works with the ETOR humidity sensor and TF-M1 and TF-M2 thermoregulators. The length of the sensor supply cable must not exceed 50 meters.

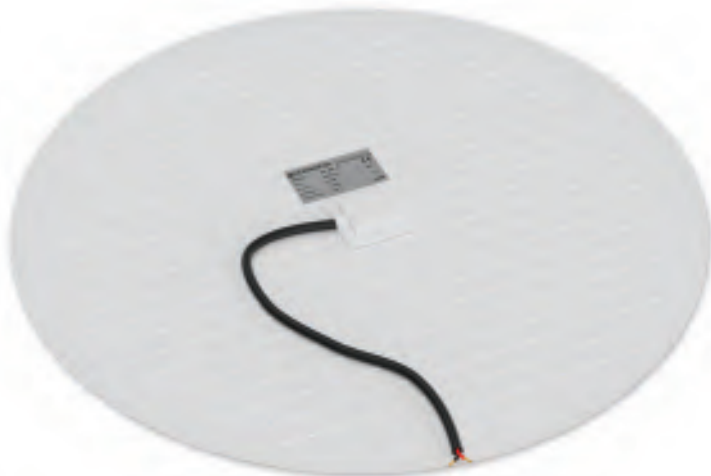
## ● HEATING FOIL UNDER THE MIRROR

### ■ TERMOFOL self-adhesive heating foil under the mirror

A heating foil prevents steam settling on the mirror surface. Mounting is trouble-free thanks to a self-adhesive surface of a foil. We connect foils to a light switch and thanks to this the electric energy consumption is low and there is no need for a thermoregulator. A mirror with the installed foil can be hung loosely on the surface of the wall or pasted into a wall facade.



## SPECIFICATION



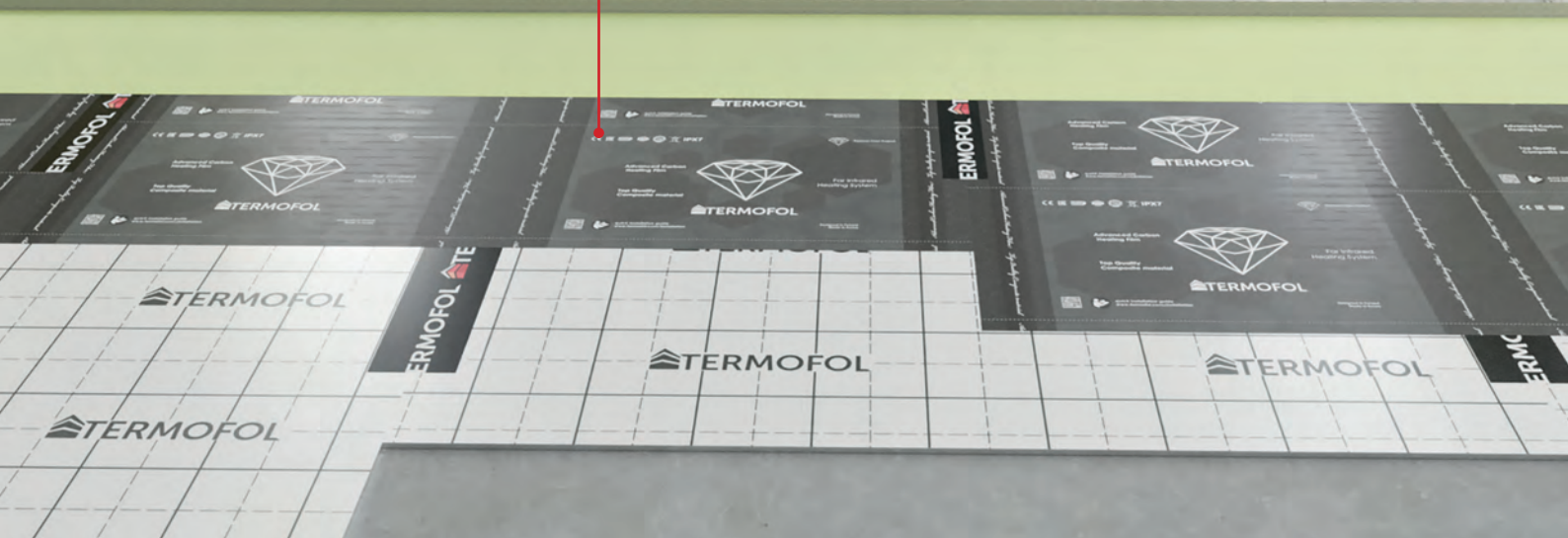
In our offer, You have a choice of heating mats for mirrors. Mats in several types differ in dimensions and power – the larger surface, the higher amount of generated heat so as to effectively prevent the mirror from fogging up. When choosing a product, one should take into account that the glass heating foil must be slightly smaller than the mirror surface. Detailed data concerning dimensions and power of our products are in the table below.

| Model    | Dimensions      | Power | Ohms            | Voltage | Amp       |
|----------|-----------------|-------|-----------------|---------|-----------|
| TF-AF-1  | 400x400 mm      | 30 W  | 1,76 k $\Omega$ | 230 V   | 130 mA    |
| TF-AF-2  | 400x600 mm      | 44 W  | 1,20 k $\Omega$ | 230 V   | 191 mA    |
| TF-AF-3  | 520x520 mm      | 45 W  | 1,18 k $\Omega$ | 230 V   | 195 mA    |
| TF-AF-4  | 640x640 mm      | 100 W | 529 $\Omega$    | 230 V   | 434 mA    |
| TF-AF-5  | 540x800 mm      | 88 W  | 601 $\Omega$    | 230 V   | 383 mA    |
| TF-AF-6  | 700x900 mm      | 108 W | 489 $\Omega$    | 230 V   | 469 mA    |
| TF-AF-10 | diameter 300 mm | 30 W  | 1.76 k $\Omega$ | 230 V   | 130.43 mA |
| TF-AF-11 | diameter 450 mm | 45 W  | 1.18 k $\Omega$ | 230 V   | 195.65 mA |
| TF-AF-12 | diameter 600 mm | 60 W  | 881.67 $\Omega$ | 230 V   | 260.87 mA |

**WE INSPIRE**

THE WEATHER CHANGES,  
THE WORLD CHANGES  
AND WE CHANGE ALONG  
WITH THEM





## ● CONVECTION HEATERS

A versatile device with a wide range of use and with a possibility to control with a smartphone from any place in the world.

■ **TERMOFOL TF-1000 WIFI**    ■ **TERMOFOL TF-1500 WIFI**    ■ **TERMOFOL TF-2000 WIFI**

It is a modern and energy-saving convection heater with a possibility to mount on the walls or on legs.

### **Dedicated to heating of a:**

- Bedroom
- Children's room
- Living room
- Bathroom
- Offices
- Public utility buildings
- Maintenance rooms, garages.

The device can be remotely controlled with a phone or a tablet with Android or iOS systems.

A modern aluminium low temperature heater, made with the most modern X-Shape technology, guarantees quick heating of a room. A front panel was made of hardened glass, the heater is equipped with a touch-sensitive digital thermostat with an LCD display. The device has a thermoregulator with a possibility to change of heating power mode (100%/50%) and to program the weekly schedule.



# SPECIFICATION

## TF-1000 WIFI



| Thermostat   | Power, Watt | Current power, A | Current frequency, Hz | Weight, kg | Surface of heating, m <sup>2</sup> | Heat amount | Dimensions, length / width / thickness mm | Model       |
|--|-------------|------------------|-----------------------|------------|------------------------------------|-------------|---|-------------|
| Protection Class 1. Protection against electric shock. Product does not contain harmful ingredients. The date of manufacture and a serial number are on the product. |             |                  |                       |            |                                    |             |   |             |
|  |             |                  |                       |            |                                    |             |   |             |
| Yes  | 1000        | 4,2-4,5          | 50-60                 | 5,1        | 10                                 | 25          | 600/380/65                                | TF-1000WIFI |

## TF-1500 WIFI



| Thermostat   | Power, Watt | Current power, A | Current frequency, Hz | Weight, kg | Surface of heating, m <sup>2</sup> | Heat amount | Dimensions, length / width / thickness mm | Model       |
|--|-------------|------------------|-----------------------|------------|------------------------------------|-------------|---|-------------|
| Protection Class 1. Protection against electric shock. Product does not contain harmful ingredients. The date of manufacture and a serial number are on the product. |             |                  |                       |            |                                    |             |   |             |
|  |             |                  |                       |            |                                    |             |   |             |
| Yes  | 1500        | 6,3-6,7          | 50-60                 | 6,2        | 15                                 | 37          | 760/380/65                                | TF-1500WIFI |

## TF-2000 WIFI



| Thermostat   | Power, Watt | Current power, A | Current frequency, Hz | Weight, kg | Surface of heating, m <sup>2</sup> | Heat amount | Dimensions, length / width / thickness mm | Model       |
|--|-------------|------------------|-----------------------|------------|------------------------------------|-------------|---|-------------|
| Protection Class 1. Protection against electric shock. Product does not contain harmful ingredients. The date of manufacture and a serial number are on the product. |             |                  |                       |            |                                    |             |   |             |
|  |             |                  |                       |            |                                    |             |   |             |
| Yes  | 2000        | 8,5-8,9          | 50-60                 | 7,4        | 20                                 | 50          | 920/380/65                                | TF-2000WIFI |

## Convection heaters specification

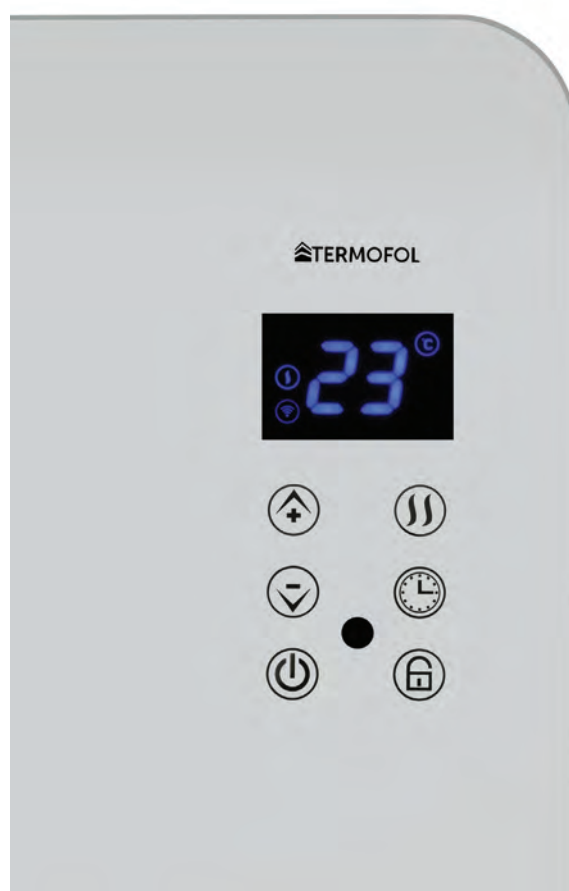
### Quick and effective heating of the rooms

Quick heating of a room is guaranteed by a modern aluminium low temperature heater made with the most modern X-Shape technology. A front made of hardened glass, readable backlight, week programming and a temperature control from the application level are only a part of available functions.

Modern look thanks to the front made of hardend glass.

The front panel was made of hardened glass, The heater is equipped with a touch-sensitive digital thermostat with an LCD display. A unique design for reasonable money.

The appliance can be used as a decorative heater both in normal rooms as well as in those with a modern look.



## STEEL RADIATORS

**TERMOFOL** steel heating panels are made of epoxide-varnished sheet steel, resistant to high temperature. A heating panel starts to work immediately after turning it on, distributing fine thermal radiation within a room.

**SW** radiator series do not have a built-in thermoregulator. A heater must be connected to a thermostat controlling the temperature in a room.

Radiators of the **SWT** series have a built-in thermoregulator enabling to control the temperature of a panel and of the temperature in a room.

**TERMOFOL** radiators belong to hybrid heaters using the phenomenon of longwave radiation in the infrared band as well as classic convection. It results in even heating of the room without so-called 'cold corners'.

Mounting is possible both in a vertical and horizontal position. Each radiator is equipped with a mounting kit and the assembly and use instruction of a radiator.



## ● STEEL RADIATORS

**TERMOFOL** radiators of the **SWT** series were equipped with a dual sensor thermoregulator. **TERMOFOL** radiators can control the temperature either of the air or a heating panel. A radiator does not require any additional control devices.

Radiators are mounted on steel profiles protected from children. Profiles are screwed with screw anchors directly to a wall. The assembly instruction and steel mounting profiles are included in the set with the radiator.

In the air temperature regulation mode, the temperature of a heating device is controlled regarding the air temperature. The air temperature is controlled to within 1°C.

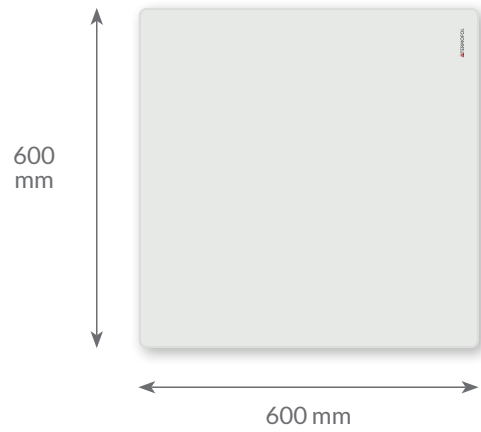
The temperature regulation mode of the heating panel enables to set the constant temperature of a heater, regardless of the air temperature.

### ■ TF-SWT



# SPECIFICATION

## ■ TF-SWT400



## ■ TF-SWT700



## ■ TF-SWT1000



| Thermostat   | Power, Watt | Current power, A | Current frequency, Hz | Weight, kg | Surface of heating, m <sup>2</sup> | Heat amount | Dimensions, length / width / thickness mm | Model      |
|--|-------------|------------------|-----------------------|------------|------------------------------------|-------------|---|------------|
| Protection Class 1. Protection against electric shock. Product does not contain harmful ingredients. The date of manufacture and a serial number are on the product. |             |                  |                       |            |                                    |             |   |            |
|  |             |                  |                       |            |                                    |             |   |            |
| Yes  | 350         | 1,5-1,8          | 50-60                 | 5,8        | 8                                  | 20          | 600/600/15                                | TF-SWT400  |
| Yes  | 500         | 2,1-2,4          | 50-60                 | 8,4        | 14                                 | 35          | 850/600/15                                | TF-SWT700  |
| Yes  | 700         | 3,0-3,4          | 50-60                 | 12,5       | 20                                 | 50          | 1200/600/15                               | TF-SWT1000 |

## ● STEEL RADIATORS

### Steel infrared heating radiators

**TERMOFOL** steel heating panels are manufactured of epoxide varnished sheet steel resistant to high temperature. A heating panel starts to work immediately after turning it on, distributing fine thermal radiation within a room.

**TERMOFOL** radiators belong to hybrid radiators using the phenomenon of longwave radiation in the infrared band as well as classic convection. It results in even heating of the room without so-called 'cold corners'.

Mounting is possible both in a vertical or horizontal position. Each radiator is equipped with a mounting kit along with the assembly instruction of a radiator.

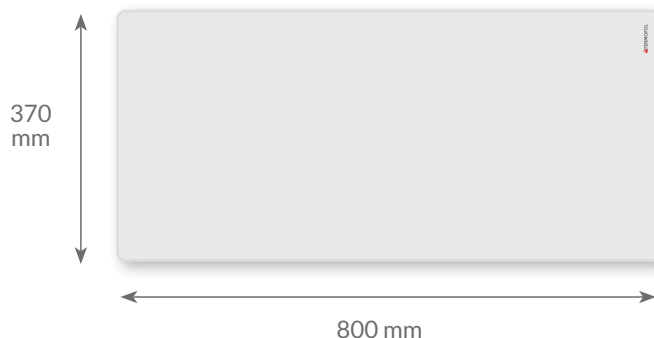


Infrared heating panels have a degree of protection at **IP44**. This means that they can be installed in bathrooms. In addition, they have a lock against unauthorized persons, which is an excellent protection for families with young children.

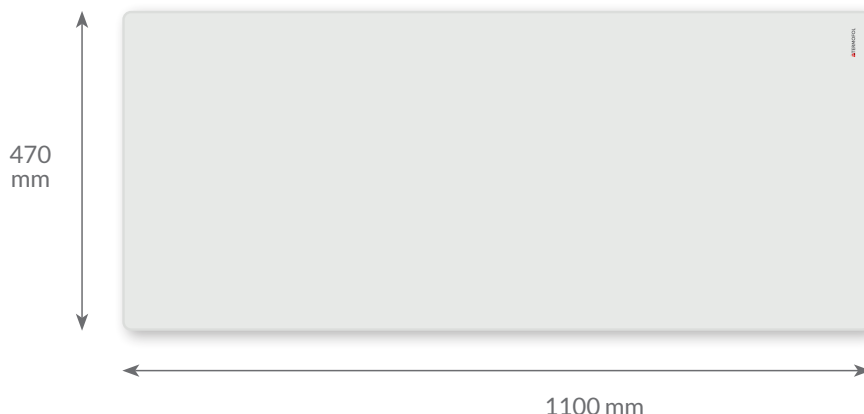


# SPECIFICATION

## ■ TF-SW300












## ■ TF-SW500



## ■ TF-SW750



| Thermostat   | Power, Watt   | Current power, A  | Current frequency, Hz   | Weight, kg  | Surface of heating, m <sup>2</sup>   | Heat amount   | Dimensions, length / width / thickness mm   | Model   |
|--|---|---|---|---|--|---|---|---|
| Protection Class 1. Protection against electric shock. Product does not contain harmful ingredients. The date of manufacture and a serial number are on the product. |   |   |   |   |  |   |   |   |
|   |  |  |  |  |  |  |  |  |
| Not  | 300   | 1,2-1,45  | 50-60   | 8,5   | 6  | 15  | 800/370/15  | TF-SW300  |
| Not  | 500   | 2,1-2,4   | 50-60   | 12,5  | 10   | 25  | 1100/470/15   | TF-SW500  |
| Not  | 750   | 3,1-3,5   | 50-60   | 18  | 25   | 38  | 1200/570/15   | TF-SW750  |

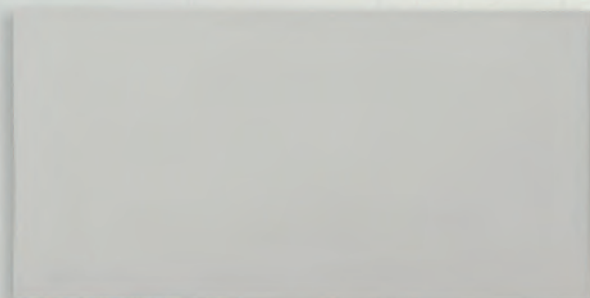
## ● STEEL RADIATORS

Smart hybrid heating panel with the possibility of remote control

**TF-HMP** series devices are equipped with an integrated WiFi thermoregulator, which means that no other additional thermostat is needed to control the heater. After connecting the heater to the application, the smartphone takes control and communicates with the thermoregulator. If the Internet does not work at home, it is still possible to manually control the heater with the thermoregulator. After reconnecting the heater to the WiFi network, the smartphone will regain control over it. The TF-HMP series panels have a manual mode, characterised by simple temperature control and a 24-hour timer function. Smart mode: 7-day programme, 4 time zones per day.



■ TF-HMP1000

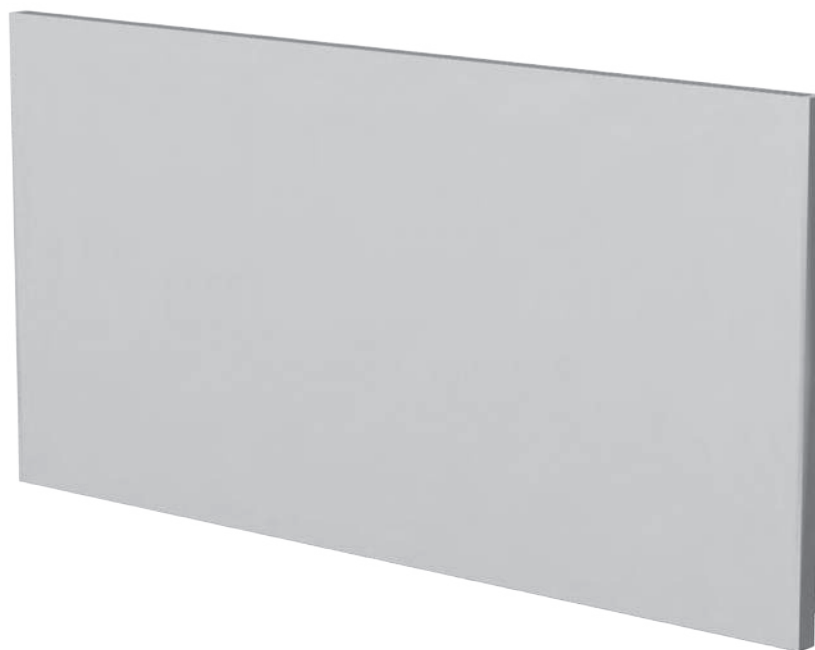


# SPECIFICATION

## ■ TF-HMP500



## ■ TF-HMP1000



| Termostat   | Moc [W]   | Natężenie prądu [A]   | Częstotliwość prądu [Hz]  | Waga [kg]   | Powierzchnia ogrzewana [m <sup>2</sup> ]   | Ilość ciepła [MJ]   | Wymiary dł/ szer/gr [mm]  | Model   |
|---|---|---|---|---|--|---|---|---|
| Klasa ochrony 1. Ochrona przed porażeniem prądem elektrycznym. Produkt nie zawiera szkodliwych składników. Data produkcji i numer seryjny znajdują się na produkcie |   |   |   |   |  |   |   |   |
|    |  |  |  |  |  |  |  |  |
| TAK   | 500   | 2,1-2,4   | 50-60   | 5,5   | 10   | 25  | 600/600/30  | TF-HMP500   |
| TAK   | 1000  | 4,2-4,8   | 50-60   | 10,3  | 20   | 50  | 1200/600/30   | TF-HMP1000  |

## ● CERAMIC RADIATORS

The presented TERMOFOL decorative infrared heating panels are the quality, usefulness, functionality and a modern design in one. Infrared heating panels emit warmth, which quickly and efficiently heats not only walls and a ceiling but also the floor as well as items and persons that are currently in the given room. Accumulated energy is given up to the surroundings, so thermal comfort never fades. Heater adjustments must be tailored to the individual needs of each user. The correct configuration is a key to low running costs. The key to success of the technology presented by us is that radiators available in our offer enable the secondary heat emission to the room through walls, floors and ceilings. This will undoubtedly affect the uniform temperature distribution in rooms. Warmed-up walls remain dry over the entire surface that additionally eliminates problems with damp.

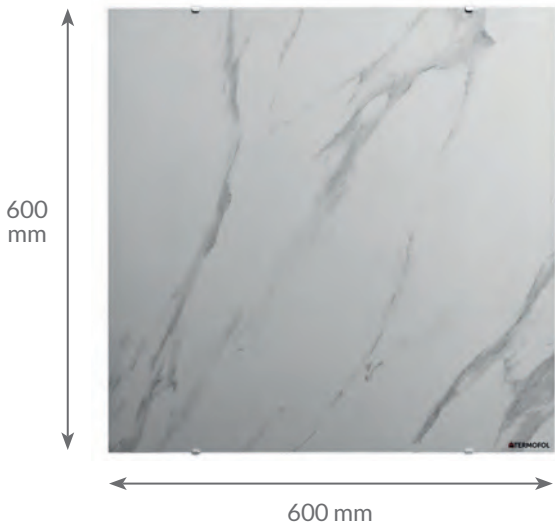


■ TF-CS1000/01



# SPECIFICATION

## ■ TERMOFOL TF-CS500/01



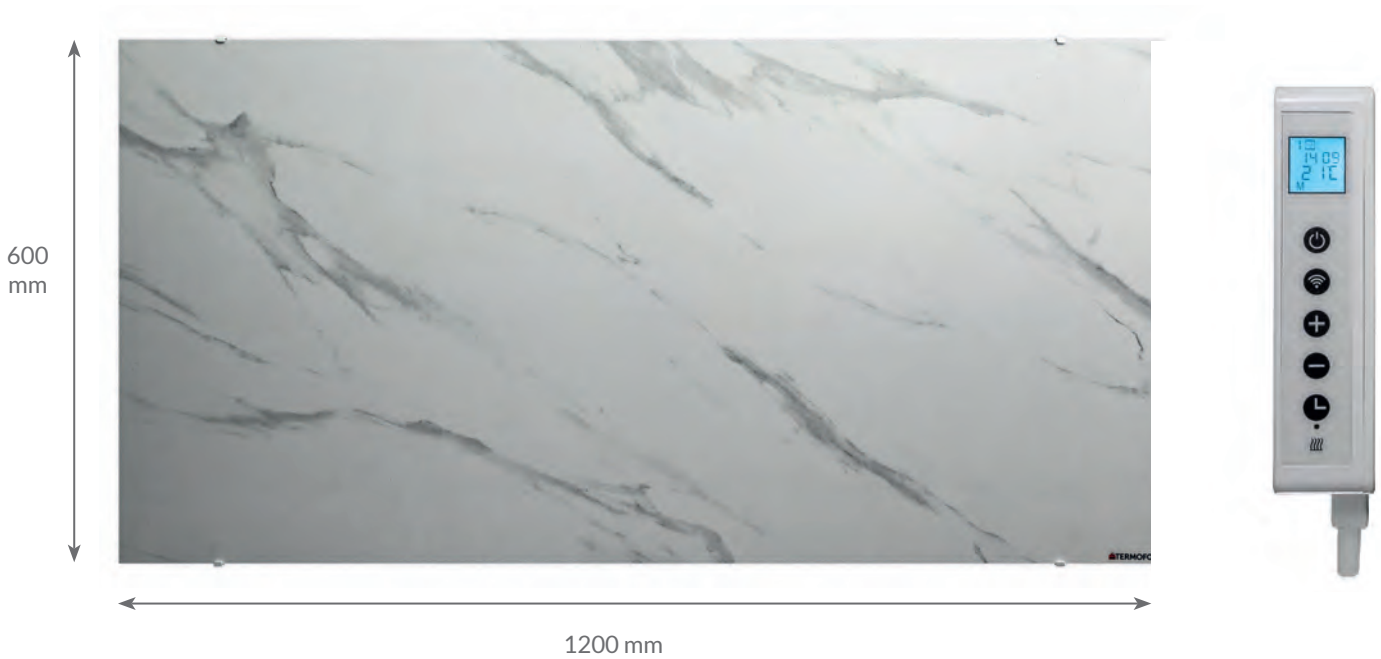
■ TF-CS500/02

■ TF-CS500/03

| Thermostat   | Power, Watt | Current power, A | Current frequency, Hz | Weight, kg | Surface of heating, m <sup>2</sup> | Heat amount | Dimensions, length / width / thickness mm | Model       |
|--|-------------|------------------|-----------------------|------------|------------------------------------|-------------|---|-------------|
| Protection Class 1. Protection against electric shock. Product does not contain harmful ingredients. The date of manufacture and a serial number are on the product. |             |                  |                       |            |                                    |             |   |             |
|  |             |                  |                       |            |                                    |             |   |             |
| Yes  | 500         | 2,1-2,3          | 50-60                 | 13         | 10                                 | 25          | 600/600/17                                | TF-CS500/01 |
| Yes  | 500         | 2,1-2,3          | 50-60                 | 13         | 10                                 | 25          | 600/600/17                                | TF-CS500/02 |
| Yes  | 500         | 2,1-2,3          | 50-60                 | 13         | 10                                 | 25          | 600/600/17                                | TF-CS500/03 |

# ● STEEL RADIATORS

## ■ TERMOFOL TF-CS1000



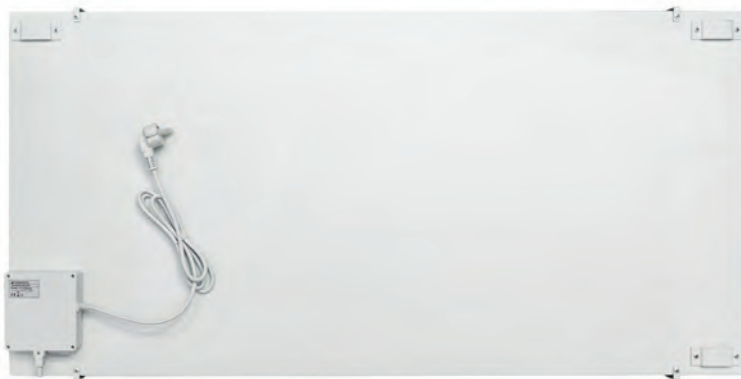
## ■ TF-CS1000/01












## ■ TF-CS1000/02



## ■ TF-CS1000/03



# SPECIFICATION

| Thermostat   | Power, Watt   | Current power, A  | Current frequency, Hz   | Weight, kg  | Surface of heating, m <sup>2</sup>  | Heat amount   | Dimensions, length / width / thickness mm   | Model   |
|--|---|---|---|---|---|---|---|---|
| Protection Class 1. Protection against electric shock. Product does not contain harmful ingredients. The date of manufacture and a serial number are on the product. |   |   |   |   |   |   |   |   |
|   |  |  |  |  |  |  |  |  |
| Yes  | 1000  | 4,1-4,5   | 50-60   | 25  | 20  | 50  | 1200/600/18   | TF-CS1000/01  |
| Yes  | 1000  | 4,1-4,5   | 50-60   | 25  | 20  | 50  | 1200/600/18   | TF-CS1000/02  |
| Yes  | 1000  | 4,1-4,5   | 50-60   | 25  | 20  | 50  | 1200/600/18   | TF-CS1000/03  |



## ● BATHROOM RADIATOR

A versatile device with a wide range of use and a possibility to control with a smartphone from any place in the world.

### ■ TERMOFOL TF-SW 750

A heating panel is an electric heater emitting heat in the form of infrared beams. An innovative heating plate was placed between two layers of hardened glass. We can compare the emitted heat to natural sources of infrared radiation, which are e.g. the Sun or fire, and thanks to this the feeling of warm is nice and healthy for our body.

### The advantages of a glass heating panel

- The most effective and accurate device in comparison to conventional heaters.
- Fast warm-up time.
- Nice feelings when using infrared radiation, which acts like relaxing and healthy heat.
- A radiator using a modern infrared technology.
- Control from the level of application, a thermostat or a remote control.
- Possibility of programming.
- A built-in timer – a possibility of turning the heating on for e.g. 1 hour only.
- 1 towel rail.














# SPECIFICATION

## ■ TF-SW 750



A built-in thermoregulator allows to adjust the temperature and the working time individually. It is also controlled from TERMOFOL Smart application level. Power, timer or programme settings are only the basic functions of the offered product. An innovative solution enables to control the heating from any place in the world.

| Thermostat   | Power, Watt   | Current power, A  | Current frequency, Hz   | Weight, kg  | Surface of heating, m <sup>2</sup>   | Heat amount   | Dimensions, length / width / thickness mm   | Model   |
|--|---|---|---|---|--|---|---|---|
| Protection Class 1. Protection against electric shock. Product does not contain harmful ingredients. The date of manufacture and a serial number are on the product. |   |   |   |   |  |   |   |   |
|   |  |  |  |  |  |  |  |  |
| Yes  | 750   | 3.26  | 50-60   | 15  | 15   | 50  | 1120/580/15   | TF-750W   |

**GOOD CLIMATE**

TUNED  
WITH TERMOFOL

We support the needy for years



ARTUR ZAM  
STENOFOI

TECH FOOL  
STENOFOI  
www.stenofoi.com

STENOFOI

CE

STENOFOI

STENOFOI

STENOFOI



## GLASS HEATING PANELS

This series will certainly interest those who are looking for innovative solutions in terms of aesthetics. The infrared heating panel of glass looks extraordinarily. A smooth and straight surface matches all interior designs – especially those minimalist or industrial ones. The glass heating panel can successfully replace a bathroom heater. It is mounted on the wall and thanks to this it is well visible and finely distributes heat within a bathroom (or within any other room).

The infrared heating panel is made of hardened glass. It is a special material, which guarantees the long term use. It is not damaged even as a result of unforeseen accidents. There is also a thermostat in the set.



# SPECIFICATION










## ■ TERMOFOL TF-SWGT450



■ TF-SWGT450/01



■ TF-SWGT450/02

| Thermostat   | Power, Watt   | Current power, A  | Current frequency, Hz   | Weight, kg  | Surface of heating, m <sup>2</sup>  | Heat amount   | Dimensions, length / width / thickness mm   | Model   |
|--|---|---|---|---|---|---|---|---|
| Protection Class 1. Protection against electric shock. Product does not contain harmful ingredients. The date of manufacture and a serial number are on the product. |   |   |   |   |   |   |   |   |
|   |  |  |  |  |  |  |  |  |
| Yes  | 450   | 2,0-2,2   | 50-60   | 13  | 9   | 23  | 450/900/18  | TF-SWGT450/01   |
| Yes  | 450   | 2,0-2,2   | 50-60   | 13  | 9   | 23  | 450/900/18  | TF-SWGT450/02   |

## ● CEILING HEATING PANELS

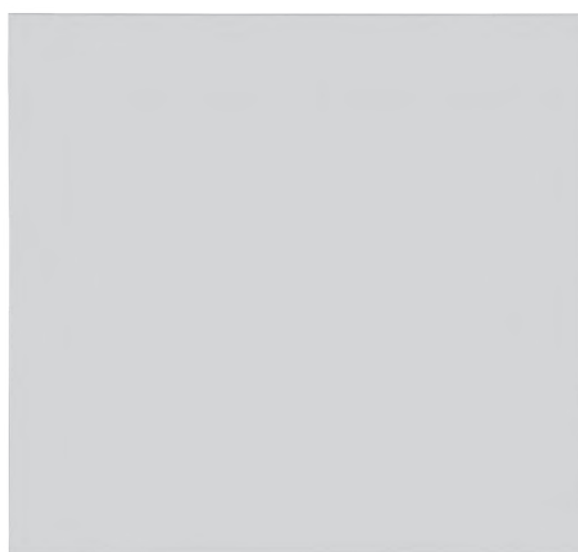
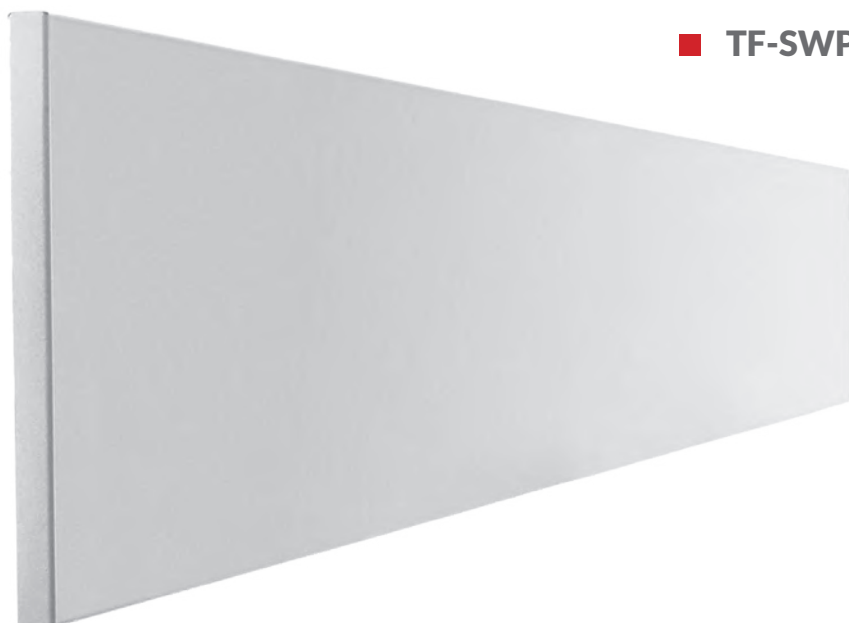
**TERMOFOL** TF-SWPO400/1600 and TF-SWPO450/618 infrared heating panels are the universal heat radiators to use in living spaces and to mount on a ceiling or inside a suspended ceiling module. Mounted on a ceiling, they enable to get a perfect distribution of temperature in a room because the difference of temperature between the ceiling and the floor does not exceed 1–2°C. Properly selected thermal radiation wavelength cause that it is absorbed in a large part by elements in a room – the floor, walls, furniture – resulting in an increase of their temperature, but simultaneously it is not absorbed by glass surfaces (e.g. windows) thanks to which we avoid the unnecessary waste of energy.

We can mount panels in a few different ways: mounting to a ceiling, suspension under a ceiling, built in a suspended ceiling (ceiling coffers).












# SPECIFICATION

## ■ TF-SWPO400/1600



## ■ TF-SWPO450/618

| Thermostat   | Power, Watt   | Current power, A  | Current frequency, Hz   | Weight, kg  | Surface of heating, m <sup>2</sup>  | Heat amount  | Dimensions, length / width / thickness mm   | Model   |
|--|---|---|---|---|---|--|---|---|
| Protection Class 1. Protection against electric shock. Product does not contain harmful ingredients. The date of manufacture and a serial number are on the product. |   |   |   |   |   |  |   |   |
|   |  |  |  |  |  |  |  |  |
| Not  | 400   | 1,5-1,9   | 50-60   | 13  | 8   | 20   | 1600/200/15   | TF-SWPO400/1600   |
| Not  | 450   | 1,7-2,2   | 50-60   | 13  | 8,5   | 22   | 618/618/15  | TF-SWPO450/618  |

## ● CEILING HEATING PANELS

The Armstrong suspended ceiling has the versatile use in the public spaces. High level of acoustic insulation, aesthetics and safety are a few of the many reasons why the Armstrong ceilings are the first choice of thousands of designers around the world.

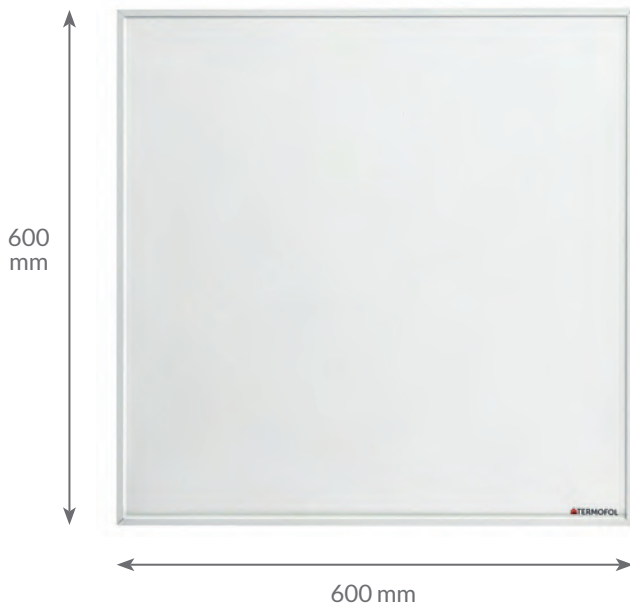
A decorative suspended ceiling can provide comfort, save time, improve building efficiency and create beautiful spaces. An additional construction element can be the **Termofol TF-SW350** infrared heating panels with standard dimensions of 600x600mm





# SPECIFICATION

## ■ TF-SW350



| Thermostat   | Power [W] | Voltage [A] | Current frequency [Hz] | Weight [kg] | Heating surface [m <sup>2</sup> ] | Heat quantity [MJ] | Dimensions L/W/T [mm] | Model    |
|--|-----------|-------------|------------------------|-------------|-----------------------------------|--------------------|-----------------------|----------|
| Protection Class 1. Protection against electric shock. Product does not contain harmful ingredients. The date of manufacture and a serial number are on the product. |           |             |                        |             |                                   |                    |                       |          |
|  |           |             |                        |             |                                   |                    |                       |          |
| Not  | 300       | 1,2-1,45    | 50-60                  | 1,67        | 6                                 | 15                 | 600/600/18            | TF-SW350 |

The infrared heating panel with the power of 300W for installation in the Armstrong suspended ceilings, dedicated to heating rooms in the home and office, i.e., living rooms, schools, shops, etc. The TF-SW350 is distinguished by its aesthetics and high efficiency. It is perfect for heating an entire space or a selected zone. When installed in suspended ceilings, the heater is fully integrated into the ceiling. A ceiling installation enables optimum use of space and prevents mechanical damage.

- Suitable for ceiling and wall installation.
- Steel housing.
- Lightweight construction.
- Only 1.85 cm thick.
- High infrared heat intensity.
- Maximum heat emission at the front and very low at the back.
- Do not emit harmful electromagnetic waves.

## EXTERNAL RADIATORS

**TERMOFOL** external infrared radiators are manufactured with the use of the most modern technology and a unique design. A radiator core is made of a special material which is made with a technology used in aviation (a resistance heater in ceramic insulation). The energetic efficiency ratio of our radiators is at the level of 99% that means that they belong to very efficient and energy-saving products. The surface of heating panels was coated with a layer of a special nano-material protecting from results of using in high temperatures but along with maintaining free emission of infrared radiation. This layer causes an increase of the infrared radiation ratio up to 86%.

The **TERMOFOL** radiators are silent while in use, energy-efficient, comfortable and reliable – and thereby they are very widely used both in industry and home applications. They can be controlled with the Termofol Smart application and a remote control, which is delivered in a set with the device.



# SPECIFICATION

## ■ TF-1200IR



## ■ TF-2400IR



## ■ TF-3200IR



| Thermostat  | Power, Watt | 3-step power regulation | Current power, A | Current frequency, Hz | Weight, kg | Dimensions, length / width / thickness mm | Model     |
|---|-------------|-------------------------|------------------|-----------------------|------------|---|-----------|
| Protection Class 1. Protection against electric shock. Product does not contain harmful ingredients.<br>The date of manufacture and a serial number are on the product. |             |                         |                  |                       |            |   |           |
|   |             |                         |                  |                       |            |   |           |
| Yes   | 1200        | 400/800/1200W           | 4,7-5,7          | 50-60                 | 7,8        | 930/200/50                                | TF-1200IR |
| Yes   | 2400        | 800/1600/2400W          | 9,4-11,4         | 50-60                 | 11,6       | 1460/200/50                               | TF-2400IR |
| Yes   | 3200        | 1070/2140/3200W         | 12,5-15,3        | 50-60                 | 13,5       | 1815/200/50                               | TF-3200IR |

Control from **TERMOFOL Smart** application level. The innovative solution enables to control heating from any place in the world.e.

## Energy straight from the Sun

Photovoltaics constitute the answer to the growing demand for electric energy both for households and business. Still growing electricity bills, environmental pollution and the Union requirements concerning payments for carbon dioxide emission in connection with coal exploitation are the factors, which justify the need of searching alternative energy sources. Photovoltaics as the method of energy acquisition from the solar energy is a more and more popular solution tailored to individual needs of every customer.

The use of solar electricity is possible after mounting a suitable installation, which one should mount on the ground or on the roof of a building. Moreover, it is also necessary to apply safety devices that guarantee safe and long-lasting operation of the photovoltaic set.



## COMPREHENSIVE EXECUTION



TERMOFOL Solar is an example of an intelligent technological solution enabling to deliver a complete photovoltaic set to the customer. It is composed of inverters, solar panels, fixings, fittings as well as services connected with arrangement and mounting of the installation. The customer also gets round-the-clock online access enabling monitoring of both production and consumption of electric energy, which is used by the installation.

The effect of the proposed solution is a financial advantage on the score of a decrease in the electricity bill and the awareness of taking care of the environment. This system enables to optimise heating costs as well, what is a condition for reducing total costs of the house operation. It is possible 'Heating of the house for **0 zloty**'.



## ● INSTALLATION SERVICES

### Professional installation services

The TERMOFOL company also provides comprehensive support for investment processes dedicated to individual and institutional customers carried out by own trained personnel and a nationwide network of authorised Partners. Comprehensiveness of this service is expressed through an optimal selection of technical solutions based on the products offered by our company within the categories of utility heat sources (infrared heating films, heating mats) and their control, as well as in the pursuit of obtaining electric energy from renewable sources with the use of photovoltaic installations. The solutions offered are based on a solid substantive basis resulting from the expertise of our personnel and professional servicing of the investments made.



The TERMOFOL company is constantly committed to a high standard of customer service, both at the design stage of the investment process and during its implementation and servicing. Comprehensively trained personnel as well as a selective selection of Partners thanks to a periodically repeated certification translates into a high level of our installation services and maintenance services.

## COMPREHENSIVE IMPELEMNTATION

At the stage of implementation, the investor's support is not limited only to the implementation of the installation heating or photovoltaic systems based on high-quality components offered by the TERMOFOL company but also includes customer support in the process of obtaining the necessary certificates and administrative approvals or acceptances for use based on the performer as-built and measurement documentation. Maintenance service and after-sales service for the warranty is carried out in accordance with the highest standards – in an enabling manner uninterrupted operation of connected devices. We offer the shortest delivery times and order-cycle times thanks to the optimisation of the warehouse policy and inventory rotation in the just-in-time system, also taking care of efficient after-sales service. It all translates into customer satisfaction in respect of our services as well as the constantly growing network of Partners.

We invite investors, developers, designers and private individuals to cooperate with us.

[Join our team](#)



# UV OVERPRINT

FOR STEEL RADIATORS  
OF SW, SWT, HMP SERIES



**For the purpose of satisfying customer requirements, we have introduced infrared heaters of the SW, SWT and HMP series, which can function as paintings. In our shop, we have prepared carefully selected designs based on high-quality photographs divided into themes: The most beautiful corners of the world, monuments of the European culture, landscape, macro-photography. The offer is addressed to people who, in addition to warmth, appreciate original design and their own interior decoration.**

In addition to the advantages of UV overprinting such as versatility of use, readiness of the material as soon as the process is completed, and resistance to weather conditions, it is also considered to be one of the most environmentally friendly. This is because UV overprinting uses inks which are solvent-free coloured materials without any harmful fumes. As a result, work using it can be carried out successfully indoors. Another advantage of UV overprinting is that it can be used to print surfaces made of a variety of materials and plastics. Thus, it is ideal for printing on paper and cardboard, but also in case of the Thermofol steel radiators.



# TERMOFOL

[www.termofol.com](http://www.termofol.com) • [biuro@termofol.pl](mailto:biuro@termofol.pl) • tel. +48 12 376 86 00

