# ThermoFloor

— smart heating solutions —

# HEATING SOLUTIONS

## CODE OF CONDUCT

Thermo-Floor AS has prepared a code of conduct for corporate social responsibility and ethics that all our suppliers and distributors must sign.

This Code is based on the principles of ISO 26000:2010 "Social responsibility", as well as applicable human rights conventions implemented in Norwegian law.

Our code contains, among other things, points regarding:

- Child labor, forced labor and slave labor
- Corruption
- Human rights
- Basic working conditions
- Organizational law
- Environmental considerations
- Health and safety

Conformité Européenne (CE) CE marking of a product means that it complies with the regulations and legal requirements imposed on the product through the EEA and can therefore be sold in Europe.

The Nemko mark is proof of compliance with relevant safety and EMC standards in Norway.

The Eurasian Conformity Mark (EAC) is a certification mark to indicate that products conform to all technical regulations of the Eurasian Customs Union.

WEEE is an EU directive which states that manufacturers of electrical and electronic products are responsible for the collection and recycling of the products when they are disposed of.

Restriction of Hazardous Substances Directive - RoHS is an EU directive that prohibits cadmium, lead, mercury, hexavalent chromium, polybrominated biphenyls and polybrominated diphenyl ethers in certain types of electrical and electronic products

**Photos:**
InHouse Thermo-Floor AS / Heatit Controls AB

Istockphoto.com
Colourbox.com
stock.adobe.com

Product photos from suppliers.

## CERTIFICATIONS

We want to contribute to developing eco-friendly solutions, and our efforts have resulted in several sertifications we can be proud of.

**ISO CERTIFIED ISO 9001:2015 & ISO 14001:2015**

Thermo-Floor AS is certified according to **ISO 9001:2015** and **ISO 14001:2015**.
Our guidelines for ethics and social responsibility are based on the principles of ISO 26000:2010

## SUSTAINABILITY

Thermo-Floor AS works purposefully to be a positive force in the society around us and to contribute to innovation. We wish to contribute to sustainable social development and reduce the environmental impact associated with our activities. Our goal is to take care of the environment and people, while creating value, growth and innovation.

We have an internship program.

## HEATIT CONTROLS

Heatit Controls AB offers an innovative range of heating control products, from basic thermostats, relays, switches and dimmers, to advanced solutions for smart homes. Almost all of our products use Z-Wave, the world's largest system of interoperable IOT products.
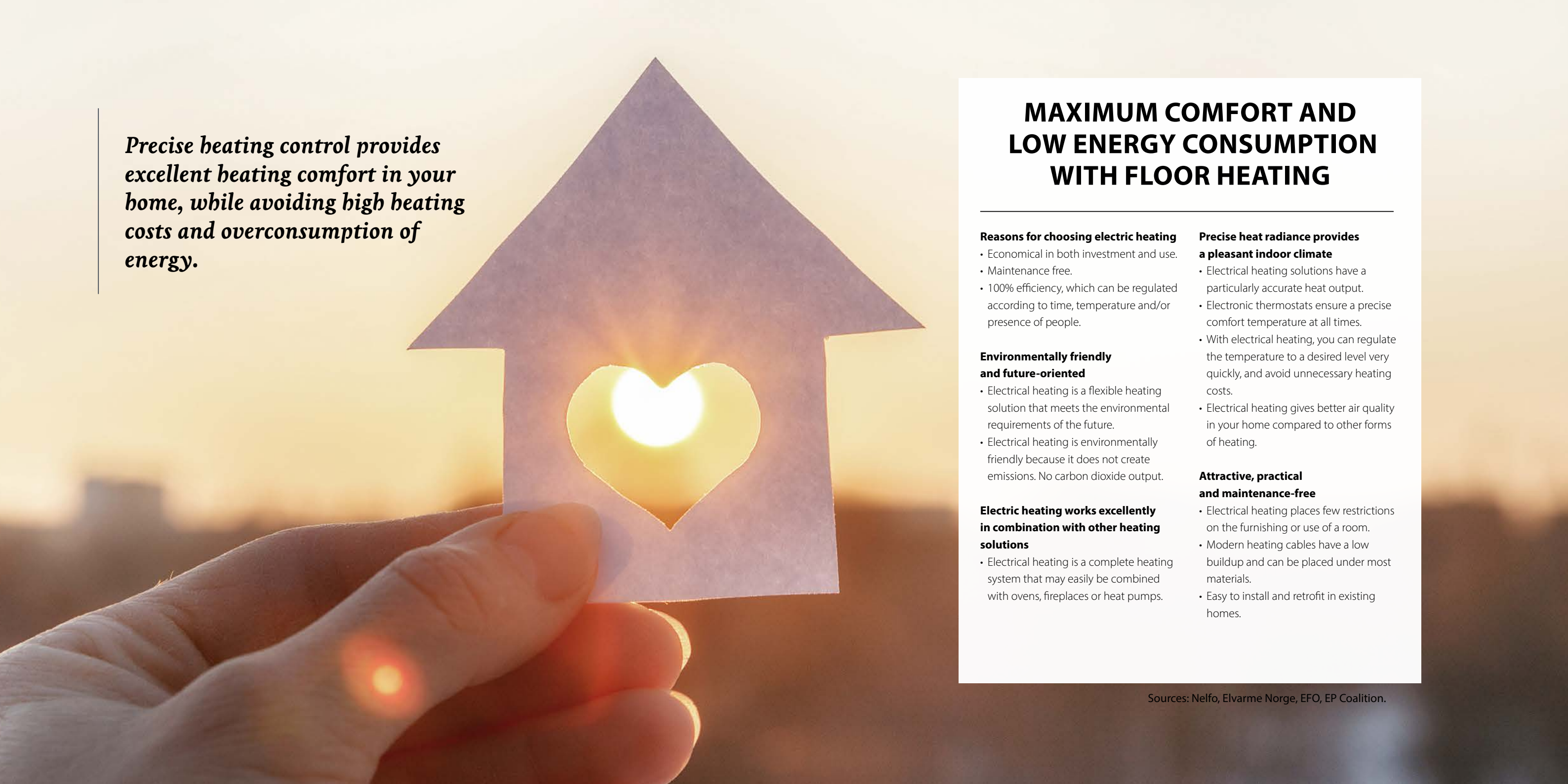
Heatit Controls AB is a sister company of Thermo-Floor AS in Norway. Thermo-Floor AS has operated in the floor heating market for more than 30 years and are continuously investing in new innovative products.

**Heatit Controls AB**, SE-Läkarvägen 4, 544 31 BRASTAD, SWEDEN
Phone: +47 61 18 77 77 • post@heatit.com
**heatit.com**

| Pål | Tine | Mats Even | Jan Åke |

| Pål | Gjermund | Ann Kristin | Heidi | Mats Even | Øyvind |

| Frank | Jonas | Imre | Odd Reidar |

**Thermo-Floor AS**, Mattisrudsvingen 19,
NO-2827 HUNNDALEN, NORWAY- T: +47 61 18 77 77
post@thermo-floor.no - **thermo-floor.no**

| Tove | Lars Fredrik | Harald | Ruben | Finn Morten | Frode | Jan | Einar | Cato | Stein Tore |

| Per Håkon | Astrid | Ine | Harry | Frode |
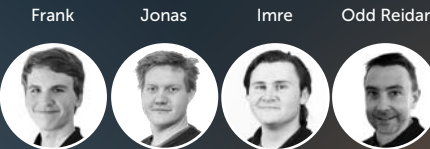
*Precise heating control provides excellent heating comfort in your home, while avoiding high heating costs and overconsumption of energy.*

## MAXIMUM COMFORT AND LOW ENERGY CONSUMPTION WITH FLOOR HEATING

**Reasons for choosing electric heating**
- Economical in both investment and use.
- Maintenance free.
- 100% efficiency, which can be regulated according to time, temperature and/or presence of people.

**Environmentally friendly and future-oriented**
- Electrical heating is a flexible heating solution that meets the environmental requirements of the future.
- Electrical heating is environmentally friendly because it does not create emissions. No carbon dioxide output.

**Electric heating works excellently in combination with other heating solutions**
- Electrical heating is a complete heating system that may easily be combined with ovens, fireplaces or heat pumps.

**Precise heat radiance provides a pleasant indoor climate**
- Electrical heating solutions have a particularly accurate heat output.
- Electronic thermostats ensure a precise comfort temperature at all times.
- With electrical heating, you can regulate the temperature to a desired level very quickly, and avoid unnecessary heating costs.
- Electrical heating gives better air quality in your home compared to other forms of heating.

**Attractive, practical and maintenance-free**
- Electrical heating places few restrictions on the furnishing or use of a room.
- Modern heating cables have a low buildup and can be placed under most materials.
- Easy to install and retrofit in existing homes.

Sources: Nelfo, Elvarme Norge, EFO, EP Coalition.

# HEATING CONTROL

A thermostat makes sure that you always have the desired temperature in your room. It can be placed anywhere in the room and does not take up any space. We offer a wide range of thermostats from the simple versions with a floor sensor and a dial, to smart versions with power metering, OTA updates and remote access via a Z-Wave gateway. The choice is yours.

Consult your electrician

# MyHeatit

Our new Wi-Fi products - both those launching now and coming later will all support our newly developed app - MyHeatit

The app contains functionality that enables you to control your smart home via WiFi or Bluetooth Low Energy (BLE).

Special for this app is its functionality in connection with installation. The installer can connect, include and organize your devices before the entire system can be easily transferred to the home owner.

In addition, of course, functions such as scenes, schedules, user management etc. will be an important part of the app. MyHeatit will also be connected to our own cloud solution Heatit Cloud2 for safe and easy handling of data, backup and functionality.

MyHeatit will be available for Android and for iOS during the ultimo 2023.

**heatit CLOUD 2™**

Available on the **App Store**

GET IT ON **Google Play**

Look for products marked with MyHeatit brand.

Works with **MyHeatit**

## HEATIT WIFI6

Heatit WiFi6 - White  RAL 9003     Art. no. 54 305 42

Heatit WiFi6 - Black Matt          Art. no. 54 305 43

Heatit WiFi6 is an electronic thermostat designed for electrical heating. The thermostat can be controlled using the "MyHeatit" app via Wi-Fi, Bluetooth (BLE), or by the buttons in front of the thermostat. The thermostat has a user friendly interface.

Heatit WiFi6 has 3 modes; Heat, Cool and Eco.

The thermostat fits in standard European junction boxes and may be used with most System 55 frames. It has a sturdy metal frame for secure fastening on the junction box.

Heatit WiFi6 has power metering and it gives you the real time information about your power consumption.

## HEATIT WIFI DIM

Heatit WiFi Dim - White  RAL 9003     Art. no. 14 444 70

Heatit WiFi Dim - White  RAL 9010     Art. no. 14 444 71

Heatit WiFi Dim is a WiFi twist dimmer for many different types of light sources. The dimmer works on most low loads without causing flicker. Heatit WiFi Dim is suitable for use with LED lights.

The dimmer is controlled via the MyHeatit App via WiFi, Bluetooth (BLE), or from the turning wheel on the front of the dimmer.

The dimmer has the option of an external switch that allows you to dim and turn the light on/off.

Mounted in a standard wall box and fits into System 55 frames.

Heatit WiFi Dim has power metering and it gives you the real time information about your power consumption.

**heat**it



Heatit WiFi6
WiFi & Bluetooth Thermostat

# HEATIT WIFI6

Heatit WiFi6 is an electronic thermostat designed for electrical heating. The thermostat can be controlled using the "MyHeatit" app via Wi-Fi, Bluetooth (BLE), or by the buttons in front of the thermostat. The thermostat has a user friendly interface.

Heatit WiFi6 has 3 modes; Heat - Cool and Eco.

The thermostat fits in standard European junction boxes and may be used with most System 55 frames. It has a sturdy metal frame for secure fastening on the junction box. The thermostat has a built-in room temperature sensor. Two additional external temperature sensors may also be connected. The device has an open API and supports Amazon Alexa and Google Home (open API, Amazon Alexa and Google Home is pending).

Heatit WiFi6 has active power metering and it gives you real time information about your power consumption. It also allows you to set the power metering value manually in case of connection with a contactor.

POWER METERING

OTA UPDATE

WIFI

ZeroX DETECTION

## FUNCTIONS

- Wi-Fi/BLE thermostat
- Internal room sensor
- External room sensor (wired by cable)
- Floor sensor
- Power regulator
- Temperature limiter
- 3 modes; Heat - Cool and Eco
- Hystereses/PWM
- Temperature calibration

- Open window detection
- ZeroX-detection
- Relay status icon
- Adjustable display brightness
- Single pole switch
- Lock mode/child lock
- Google Home, Amazone Alexa and open API (pending)
- Weekly schedule
- Active power metering
- Firmware update (OTA)

## TECHNICAL DATA

| | |
|---|---|
| Protocol | Wi-Fi 2.4GHz/BLE |
| Rated voltage | 230VAC  50Hz |
| Max load | 3600W (resistive load) |
| Max current | 16A |
| Power consumption | <2.0W |
| Ambient temperature | 5°C to 40°C |
| Hysteresis | 0.3°C to 3.0°C (default 0.5°C) |
| Humidity | 10% to 85% RH |
| Compatible with NTC sensors with values | 6.8, 10, 12, 15, 22, 33, 47 and 100kΩ @ 25°C |
| Product size (WxHxD) | 84 x 84 x 45mm |
| IP Code | IP21 |
| Approvals | CE, Nemko |

Ⓝ CE

| ART. NO. | PRODUCT | COLOR | |
|---|---|---|---|
| 54 305 42 | Heatit WiFi6 thermostat 3600W  16A | White RAL 9003 | |
| 54 305 43 | Heatit WiFi6 thermostat 3600W  16A | Black matt | |



**heat**it | **WIFI6**



Works with
**MyHeatit**

MyHeatit App

GET IT ON
Google Play

Available on the
App Store

# HEATIT WIFI

Heatit WiFi is an electronic thermostat for electrical underfloor heating. The thermostat has a simple user interface and can be easily programmed via the capacitive buttons. The thermostat has an easy user interface.

The thermostat fits in standard European wall box and can be used with most frames that are adapted to System 55. The thermostat has a builtin sensor and can be connected to two external sensors.

The thermostat has a built-in Wi-Fi that allows you to control it from a user-friendly app. The "Heatit WiFi" app is available on Google Play and in the App Store. Works with Amazon Alexa and Google Home. If you are installing multiple thermostats in the same house, you may copy the settings from one thermostat to the next. This simplifies the installation.

**FUNCTIONS**

- Wi-Fi thermostat
- Floor sensor possibly external sensor
- Internal room sensor
- Power regulator
- Adaptive regulation
- Temperature limiter
- Weekly schedule
- Home/Away/Anti-frost
- Intuitive app - easy to use
- Control via app
- Alarm/notifications in app
- Firmware update (OTA)
- Energy calculator
- Single pole switch
- Lock mode/Child lock
- Temperature calibration
- Amazon Cloud
- Norwegian/Svensk/ English/Finnish/Dutch language

**TECHNICAL DATA**

| | |
|---|---|
| Protocol | WiFi |
| Rated voltage | 230VAC 50Hz |
| Max load | 3600W (resistive load) |
| Max current | 16A |
| Power consumption | <2.0W |
| Ambient temperature | 5°C to 40°C |
| Hysteresis | 0.2°C to 2.0°C (default 0.5°C) |
| Humidity | 10% to 85% RH |
| Compatible with NTC sensors with values | 6.8, 10, 12, 15, 22, 33, 47, 100kΩ @25°C |
| Product size (WxHxD) | 86 x 86 x 38mm |
| IP Code | IP21 |
| Approvals | CE |

| ART. NO. | PRODUCT | COLOR | |
|---|---|---|---|
| 54 305 89 | Heatit WiFi thermostat 3600W / 16A | White RAL 9003 | |
| 54 304 88 | Heatit WiFi thermostat 3600W / 16A | Black matt | |

Heatit WiFi App
GET IT ON Google Play
Available on the App Store

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# HEATIT 7S NFC

Heatit 7S NFC is an electronic thermostat for electrical underfloor heating. The thermostat has three modes; Comfort, Eco and weekly program.

The thermostat fits in standard European wall boxes and can be used with most frames that are adapted to System 55. The thermostat has a built-in sensor and may be connected to two external sensors.

Heatit NFC Thermostat has a built-in NFC chip to control the thermostat via NFC app on your phone. All parameters can be configured from the app, and you can also set up weekly schedules via the app.

**FUNCTIONS**

- NFC thermostat
- 7-segment LED display
- Floor sensor
- Internal room sensor
- External sensor (wired)
- Adaptive regulation
- 3 modes: Comfort, Economy and Automatic
- Weekly schedule
- Single pole switch
- Lock / child safety
- Temperature calibration
- Requires smartphone with iOS 14, Android 6.0 or later + NFC support

**TECHNICAL DATA**

| | |
|---|---|
| Protocol | NFC |
| Rated voltage | 230VAC 50Hz |
| Max load | 3600W (resistive load) |
| Max current | 16A |
| Power consumption | 0.5W |
| Ambient temperature | 5°C to 40°C |
| Hysteresis | 0.5°C |
| Humidity | 10% to 85% RH |
| Compatible with NTC sensors with values | 6.8, 10, 12, 15, 22, 33 and 47kΩ @25°C |
| Product size (WxHxD) | 86 x 86 x 51mm |
| IP Code | IP21 |
| Approvals | CE |

| ART. NO. | PRODUCT | COLOR | |
|---|---|---|---|
| 54 305 85 | Heatit 7S NFC thermostat 3600W/16A | White RAL 9003 | |
| 54 304 46 | Heatit Plastic Kit for thermostats | Black RAL 9011 | |

Heatit NFC App
GET IT ON Google Play
Available on the App Store

*Heatit WiFi thermostat has a simple user interface and can be easily programmed via the capacitive buttons. The color screen displays an accessible user interface.*

# MULTIREG6

Multireg6 is an electronic thermostat designed for electrical heating. The thermostat has a user friendly interface that can be controlled from the buttons on the front.

Multireg6 has 3 modes; Heat - Cool and Eco.

The thermostat fits in standard European junction boxes and may be used with most System 55 frames. It has a sturdy metal frame for secure fastening on the junction box. The thermostat has one built-in room temperature sensor.
Two additional external temperature sensors may also be connected.

Multireg6 has active power metering and it allows the user to see the total accumulated energy consumption in kWh.

**POWER METERING**

**ZeroX DETECTION**

## FUNCTIONS

- Internal room sensor
- External room sensor (wired by cable)
- Floor sensor
- Power regulator
- Temperature limiter
- 3 modes; Heat - Cool and Eco
- Hystereses/PWM

- Temperature calibration
- Open window detection
- ZeroX-detection
- Relay status icon
- Adjustable display brightness
- Single pole switch
- Lock mode/child lock
- Active power metering

## TECHNICAL DATA

| | |
|---|---|
| Rated voltage | 230VAC 50Hz |
| Max load | 3600W (resistive load) |
| Max current | 16A |
| Power consumption | <2.0W |
| Power regulator | Time cycle 0 to 30 minutes |
| Ambient temperature | 5℃ to 40℃ |
| Hysteresis | 0.3℃ to 3.0℃ (default 0.5℃) |
| Humidity | 10% to 85% RH |
| Compatible with NTC sensors with values | 6.8, 10, 12, 15, 22, 33, 47 and 100kΩ @ 25℃ |
| Product size (WxHxD) | 84 x 84 x 45mm |
| IP Code | IP21 |
| Approvals | CE, Nemko |

Ⓝ CE

| ART. NO. | PRODUCT | COLOR | |
|---|---|---|---|
| 54 305 34 | Multireg6 thermostat 3600W / 16A | White RAL 9003 | |
| 54 305 33 | Multireg6 thermostat 3600W / 16A | White RAL 9010 | |
| 54 305 35 | Multireg6 thermostat 3600W / 16A | Black matt | |

# MULTIREG LCD2

Multireg LCD2 is an electronic thermostat for mounting in a standard wall box. Multireg LCD2 is equipped with a two-pole break and fits into most systems used in Norway (Elko RS16, Schneider Exxact, Eljo Trend and Norvesco).

**MULTI REG**

**FUNCTIONS**

- Floor sensor
- Internal room sensor
- Temperature limiter
- Power regulator
- Weekly schedule

- Setback via pilot wire
- Lock mode/child lock
- Backlight
- Calibration

**TECHNICAL DATA**

| | |
|---|---|
| Rated voltage | 230VAC  50/60Hz |
| Max load | 3600W (resistive load) |
| Max current | 16A |
| Power consumption | 0.5W |
| Power regulator | Time cycle 0 to 30min |
| Ambient temperature | 5°C to 40°C |
| Temperature range | Floor sensor 5°C to 40°C |
| | Room sensor 5°C to 40°C |
| Hysteresis | 0.5°C |
| Switch | 2-pole-switch |
| Included in package | Floor sensor, Art. no. 54 301 07 |
| Compatible with NTC sensors with values | 10, 12, 15, 22, 33 and 47 kΩ @ 25°C |
| IP Code | IP21 |
| Approvals | CE |

CE

| ART. NO. | PRODUCT | COLOR | |
|---|---|---|---|
| 54 303 01 | Multireg LCD2 thermostat 3600W  16A | White RAL 9010 | |
| 54 304 49 | Plastic kit for Multireg LCD2 thermostat | Black RAL 9011 | |



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**MULTI REG**

# MULTIREG S-CONTROL

Multireg S-Control is an electronic thermostat with four functions. The thermostat is easy to install and program, and the design makes it very user-friendly. The thermostat has a setback temperature option.

Multireg S-Control is equipped with a 2-pole switch, and fits System 55 frames.

**FUNCTIONS**

- Floor sensor
- Internal room sensor

- Power regulator
- Temperature limiter

**TECHNICAL DATA**

| | |
|---|---|
| Rated voltage | 230VAC  50/60Hz |
| Max load | 3600W (resistive load) |
| Max current | 16A |
| Power consumption | 0.5W |
| Power regulator | Time cycle 0 to 30min |
| Ambient temperature | 5°C to 40°C |
| Temperature range | 5° to 40°C |
| Hysteresis | 0.5°C |
| Switch | 2-pole-switch |
| Included in package | Floor sensor, Art. no. 54 301 07 |
| | Plastic cover |
| Compatible with NTC sensors with values | 10 kΩ @ 25°C |
| IP Code | IP21 |
| Approvals | CE |

CE

| ART. NO. | PRODUCT | COLOR | |
|---|---|---|---|
| 54 303 33 | Multireg S-Control thermostat 3600W  16A | White RAL 9010 | |
| 54 304 48 | Plastic kit for Multireg S-control thermostat | Black RAL 9011 | |

# MULTIREG LCD3

Multireg LCD3 is an electronic thermostat designed for electrical heating. The thermostat fits in standard European junction boxes and may be used with most System 55 frames.
Multireg LCD3 has the option of a weekly program. It has an internal sensor and can be connected to two external sensors.

Multireg LCD3 also has two modes for outdoor use. When using two sensors, it is possible to limit the ground temperature additionally. Multireg LCD3 is designed to melt snow and ice on the ground, stairs, and smaller outdoor areas. The thermostat operates within a specific temperature range.



## FUNCTIONS

- 7 segment LED display
- Floor sensor
- Internal room sensor
- External room sensor (wired by cable)
- Temperature limiter
- +/- thermostat w/sensor
- Weekly schedule
- Clock function
- Setback via pilot wire
- Single pole switch
- Lock mode/child lock
- Backlight
- Temperature calibration

## TECHNICAL DATA

| | |
|---|---|
| Rated voltage | 230VAC  50Hz |
| Max load | 3600W (resistive loads only) |
| Max current | 16A |
| Power consumption | 1.5W |
| Power regulator | Time cycle 0 to 30min |
| Ambient temperature | 5°C to 40°C (-30°C to 70°C storage temperature) |
| Temperature range | -20°C to 40°C |
| Hysteresis | 0.3°C to 3.0°C (0,5°C standard) |
| Included in package | Floor sensor, Art. no. 54 301 07 |
| Compatible with NTC sensors with values | 6,8, 10, 12, 15, 22, 33, 47 og 100kΩ @25°C |
| IP Code | IP21 |
| Approvals | CE |

$C \in$

| ART. NO. | PRODUCT | COLOR | |
|---|---|---|---|
| 54 305 74 | Multireg LCD3 thermostat 3600W 16A | White RAL 9010 |  |





## MULTI REG | MULTIREG LCD3

# HEATIT EXTERNAL ROOM SENSOR



RAL 9010          RAL 9003

Heatit External Room Sensor is designed for use with Multireg- and Heatit thermostats. The sensor can be mounted directly on a wall or on top of a wall box. Fits into most System 55 frames. The product comes in a matte version.

When used with a thermostat, dimmer or other products that emit heat, it is recommended that the sensor be mounted below these other products.

**It is not possible to connect the sensors in series or in parallel.**



84mm

84mm          20mm

## FUNCTIONS
- External sensor
- Designed for use with Multireg- and Heatit thermostats
- Fits into combination frames
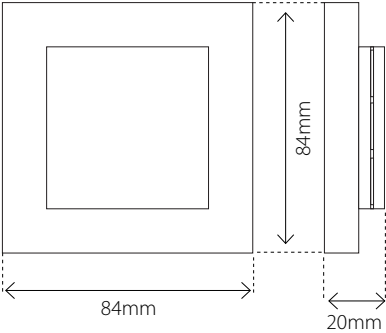- Can be mounted directly on the wall or on top of a wall box
- Connected by cable to the thermostat
- For indoor use

## TECHNICAL DATA
| | |
|---|---|
| NTC | 10kΩ @ 25°C |
| Cable diameter | Ø1,5mm² |
| Ambient temperature | 5°C to 40°C |
| Humidity | 10% to 85% RH |
| Size (LxWxH) | 84 x 84 x 20mm |
| IP-Code | IP21 |
| Approvals | CE |

## MAINTENANCE
The product does not need maintenance, but it must never be covered.

CE

| ART. NO. | PRODUCT | COLOR | |
|---|---|---|---|
| 54 301 31 | Heatit External Room Sensor  NTC 10kΩ | White  RAL 9003 | |
| 54 301 32 | Heatit External Room Sensor  NTC 10kΩ | White  RAL 9010 | |
| 54 301 33 | Heatit External Room Sensor  NTC 10kΩ | Black matt | |



# SENSORS



54 301 08

**FLOOR SENSOR  Ø3MM**
NTC 10kΩ @ 25°C
Cable length 6 meters.

| ART. NO. | PRODUCT |
|---|---|
| 54 301 07 | Floor sensor Ø4mm  3 meters  NTC 10kΩ |
| 54 301 08 | Floor sensor  Ø3mm  6 meters  NTC 10kΩ |
| 54 301 24 | Floor sensor  Ø3mm  15 meters  NTC 10kΩ |



54 301 07

**FLOOR SENSOR  Ø4MM**
NTC 10kΩ @ 25°C
Standard sensor for Multireg and Heatit thermostats.
Cable length 3 meters.



54 301 24

**FLOOR SENSOR  Ø3MM**
NTC 10kΩ @ 25°C
Standard sensor for Multireg and Heatit thermostats.
Cable length 15 meters.

*Perfect temperature throughout your home. Lower the temperature at night, make sure your house is warm when you come home from work. Eco-friendly and economical at the same time. – Your home, your choice*

# FLOOR HEATING

# HEATING SOLUTIONS

Electrical underfloor heating has incomparable energy efficiency, and at Thermo-Floor AS, we offer all types of solutions. Low-build electrical systems quickly heat up and cool down, and this makes electric underfloor heating a very energy-efficient solution. The heat rises evenly from the entire surface of the floor and prevents hot and cold zones in the room, which may be a problem when using radiators, convectors and heat pumps. Our bodies are designed to be most comfortable when our feet are warm and our heads cool. With heated floors, you may lower your indoor temperature a couple of degrees, thus saving energy without losing comfort. With state-of-the-art thermostats that control the heat in every room, you can create a warm environment for the whole family throughout your living space.

| FLOOR HEATING | EFFECT per. m² | PARQUET, LAMINATE | TILES | VINYLS, CARPETS | BUILDUP |
|---|---|---|---|---|---|
| TFP heating mat | 60W | x | | | 4 - 4,5mm w/underlay |
| TF heating foil | 60W and 100W | x | | | 6 - 7mm w/underlay |
| TF Sticky2 | 60W - 100W - 130W - 160W | x | x | x | 4 - 20mm* |
| TF SVK2 heating cable | 10W - 17W - 30W | x 60W | x | x | 30 - 80mm* |
| TF NSX heating cable | 17W | | x | x | 30 - 80mm* |
| TF BVK heating cable | 10W | x | x | x | 4 - 20mm* |

*depending on underlay and floor covering

# TFP HEATING MAT

The TFP heating mat is an ideal heating solution for your floating parquet or laminate floors. TFP provides comfort heating in all rooms. Combined with the TFP underlay, the TFP heating mat replaces standard parquet underlays, and the build-up height is no more than 4 - 4,5mm. The heating mat is easy to install, thus keeping installation costs down.

## An ideal product for parquet and laminate flooring

**Advantage**
• Very low buildup.
• Excellent heat distribution.
• Quick and simple installation.
• Retrofit friendly.

**Buildup**  4 - 4.5mm including underlay.

## TECHNICAL DATA

| | |
|---|---|
| Cable type | Twin conductor, screened |
| Rated voltage | 230VAC  50Hz |
| Output pr. m² | 60W |
| Cable diameter | Ø1.4mm |
| Mat width | 0.5 meter |
| Mat length | 2.0 - 30.0 meters |
| Cold lead | 6 meters |
| IP Code | IPX7 |
| Approvals | CE |

### RCD/THERMOSTAT

All heating cables must be equipped with a residual current disrupter with 30mA.
The heating cable installation must be installed with an electronic thermostat for energy efficiency and temperature control.

### AREAS OF USE

Comfort heating for all dry rooms indoors. Can be installed directly on wooden or concrete sub-flooring in combination with the 3mm TFP underlay.

### FLOOR COVERING

• Parquet
• Laminate
• Chipboard

The mat is available in many sizes up to 15m², and several mats may be connected to cover large areas.

Parquet   Laminate   Chipboard

CE

| ART. NO. | PRODUCT | SIZE | TOTAL OUTPUT | OHM VALUE |
|---|---|---|---|---|
| 10 010 51 | TFP 60W/1.0m² 0.5x2m 60W | 0.5 x 2 meters | 60W | 882 |
| 10 010 52 | TFP 60W/2.0m² 0.5x4m 120W | 0.5 x 4 meters | 120W | 441 |
| 10 010 53 | TFP 60W/3.0m² 0.5x6m 180W | 0.5 x 6 meters | 180W | 294 |
| 10 010 54 | TFP 60W/4.0m² 0.5x8m 240W | 0.5 x 8 meters | 240W | 220 |
| 10 010 55 | TFP 60W/5.0m² 0.5x10m 300W | 0.5 x 10 meters | 300W | 176 |
| 10 010 56 | TFP 60W/6.0m² 0.5x12m 360W | 0.5 x 12 meters | 360W | 147 |
| 10 010 57 | TFP 60W/7.0m² 0.5x14m 420W | 0.5 x 14 meters | 420W | 126 |
| 10 010 58 | TFP 60W/8.0m² 0.5x16m 480W | 0.5 x 16 meters | 480W | 110 |
| 10 010 59 | TFP 60W/9.0m² 0.5x18m 540W | 0.5 x1 8m meters | 540W | 98 |
| 10 010 60 | TFP 60W/10.0m² 0.5x20m 600W | 0.5 x 20 meters | 600W | 88 |
| 10 010 62 | TFP 60W/12.0m² 0.5x24m 720W | 0.5 x 24 meters | 720W | 73 |
| 10 010 65 | TFP 60W/15.0m² 0.5x30m 900W | 0.5 x 30 meters | 900W | 59 |
| 10 011 47 | TF tape  50mm, grey | 50 mm 66 meters | | |
| 10 011 49 | TFP underlay mat  3mm | 15m² | | |
| 10 010 95 | Cold lead wire for TFP | 2 x 0.75mm² | | |

Often used with

**FOR PARQUET AND LAMINATE**

**ThermoFloor**
— smart heating solutions —

# TF HEATING FOIL

TF heating foil is an easy and cost-efficient underfloor heating system, whether you are building a new floor or refurbishing an old one. The heating foil is placed directly on heat-reflecting, insulating underlay, and may be covered by floating parquet or laminate flooring.  We supply heating foil in various widths and effects.  The heating foil is approximately 0,3mm thick. The buildup of the TF heating foil combined with the TFV underlay is no more than 6 - 7 mm. TF heating foil is made from eco-friendly materials, and it is easy to cut and splice according to your needs.

It takes very little time to heat up a room with this type of flooring. Using a thermostat with setback temperature helps you save money by reducing the heat at times when no one is at home, or at night.

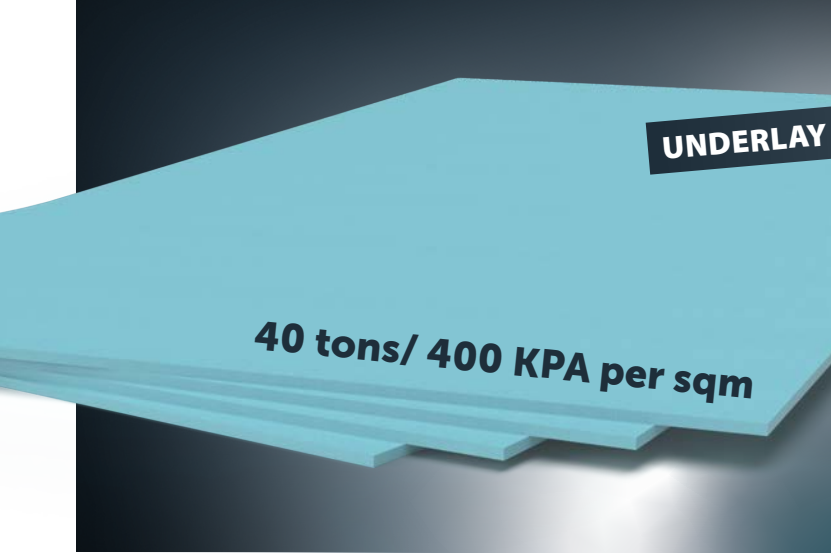## Heating foil for parquet and laminate flooring

**Advantages**
Responds quickly, easy to adjust up and down.
With its low output, it can be laid directly under wooden floors, parquet and laminate.
Low buildup and retrofit friendly.

### TECHNICAL DATA

| | |
|---|---|
| **Rated voltage** | 230VAC  50Hz |
| **Output pr. m²** | 60W or 100W |
| **Thickness** | 0.3mm |
| **Widths** | 30cm + 50cm + 80cm + 100cm + 120cm |
| **Length** | 50 - 100 meters depending on type |
| **Approvals** | CE |

TF heating foil is a product with single layer insulation. In order to achieve double insulation, the foil needs to be covered with PE foil.
All concrete sub-floors or sub-floors on ground level must be covered by a 0,20mm PE plastic foil before installing the TF heating foil.

### RCD/THERMOSTAT
All heating cables must be equipped with a residual current disrupter with 30mA.
The heating cable installation must be installed with an electronic thermostat for energy efficiency and temperature control.

### AREAS OF USE
Comfort heating and total heating for all dry rooms.
TF heating foil is designed for use underneath parquet and laminate floors.

### FLOOR COVERING
• Parquet
• Laminate
• Chipboard

$C\mathcal{E}$

**Buildup**  The heating foil is approx. 0,3mm thick. TF heating foil in combination with TFV underlay has a buildup of about 6 - 7mm.

Parquet    Laminate    Chipboard

| ART. NO. | PRODUCT | SIZE |
|---|---|---|
| 54 304 03 | TF heating foil  30cm  60W/m² | 30cm x 50 meters |
| 54 304 05 | TF heating foil  50cm  60W/m² | 50cm x 100 meters |
| 54 304 07 | TF heating foil  80cm  60W/m² | 80cm x 70 meters |
| 54 304 10 | TF heating foil 100cm  60W/m² | 100cm x 70 meters |
| 54 304 13 | TF heating foil 120cm  60W/m² | 120cm x 55 meters |
| 54 304 20 | TF heating foil  50cm  100W/m² | 50cm x 100 meters |
| **ACCESSORIES** | | |
| 54 304 30 | TFV underlay Blue  6mm   25 pcs   40 t/m²/ 400KPA | 0,580 x 1.1 meter    15.9m² |
| 54 304 40 | TFV underlay Blue  6mm   60 pcs   40 t/m² / 400KPA | 0,580 x 1.1 meter    38.28m² |
| 54 304 08 | TF RKK double insulated cable  1.5mm²   Blue | 100 meters |
| 54 304 18 | TF RKK double insulated cable  2.5mm²   Blue | 100 meters |
| 54 304 09 | TF RKK double insulated cable  1.5mm²   Black | 100 meters |
| 54 304 19 | TF RKK double insulated cable  2.5mm²   Black | 100 meters |
| 54 304 11 | PE plastic foil  0.20mm | 2.6m x 15 meters   39m² |
| 54 304 12 | TFV  crimp connectors | 50 pcs |
| 54 304 14 | TFV mastic tape | 20 meters |
| 54 304 15 | TF double-sided tape | 105 meters |
| 10 011 47 | TF tape 50mm, grey | 50mm  66 meters |
| 54 304 16 | TFV  crimping tool | |

Often used with

**UNDERLAY FOR TF HEATING FOIL**

**40 tons/ 400 KPA per sqm**

## AREAS OF USE

- TFV underlay Blue for TF heating foil.
- High compressive strength. min. 40tons/400 KPA per sqm.
- Ideal for click laminate flooring.
- Reduces step noise in the room and improves the acoustic properties.
- Good thermal insulation - suitable for use on cold floors, e.g. in basements.
- Lower heating costs.

## BUILD-UP

The surface must be clean and dry.
The underlay is insulating and made of extruded polystyrene with flame-retardant material. The underlay has several different properties that help to give the floor optimal performance and comfort.
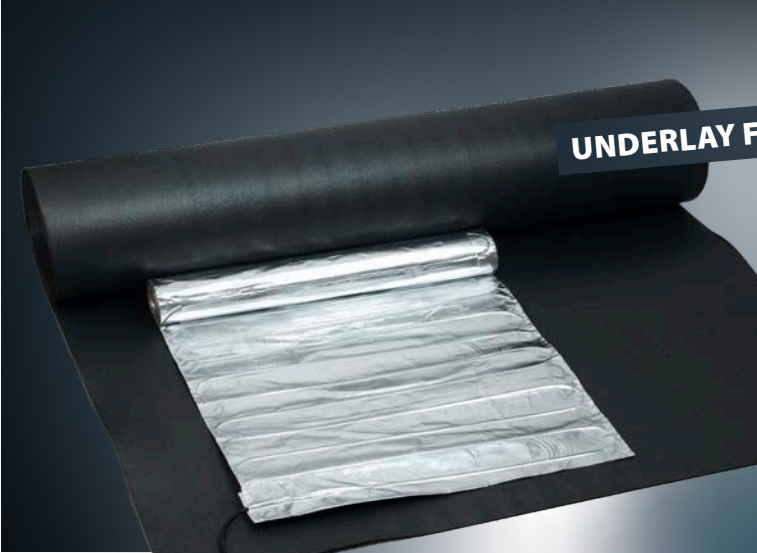
# TFV UNDERLAY BLUE

**Always follow the floor supplier's installation guidelines and ensure that the floor is indeed suitable for underfloor heating.**

Certain floor types have specific requirements for subfloor hardness. In these cases, it might be necessary to place a pressure distribution plate over the installed heating foil to meet the floor supplier's specifications.

| TECHNICAL DATA | |
|---|---|
| Material | Extruded polystyrene |
| Thickness | 6mm |
| Compressive strength | 28 t/m² |
| Density | 55 kg/m³ |
| Impact sound according to ISO 10140 | $\Delta Lw = 23$ dB |
| Therminal conductivity | 0,0307 W/mK |
| Therminal conductivity (calculated value) | 0,0341 W/mK |
| Therminal resistance | 0,187 m²K/W |
| Operating temperature | -40°C - +70°C |
| Meilting point | > 160°C |
| Therminal decomposition | > 250°C |
| Water absorption | < 0,1 vol% |
| Surface tension | > 42 mN/m |
| Fire classification | E |

| ART. NO. | PRODUCT | SIZE |
|---|---|---|
| 54 304 30 | TFV underlay Blue 6mm 25 pcs 40 t/m²/ 400KPA | 0,580 x 1.1 meter 15.9m² |
| 54 304 40 | TFV underlay Blue 6mm 60 pcs 40 t/m² / 400KPA | 0,580 x 1.1 meter 38.28m² |

**UNDERLAY FOR TFP HEATING MAT**

## AREAS OF USE

- Underlay mat for TFP heating mat.
- Reduces step noise. Step noise with 17 - 19dB.
- Thickness 3mm.
- Density 60kg/m³.
- Deformation temperature 100°C.
- Operating temperature -40°C - 95°C.

## BUILD-UP

The surface must be clean and dry.
The underlay is insulating and made of extruded polystyrene with airolen material. The underlay has several different properties that help to give the floor optimal performance and comfort.

# TFP UNDERLAY MAT

| ART. NO. | PRODUCT | AREA |
|---|---|---|
| 10 011 49 | TFP underlay mat 3mm | 15m² |

| COMPRESSION | STANDARD | | RESULT |
|---|---|---|---|
| | | 10% | 0,01 N/mm² |
| | | 20% | 0,02 N/mm² |
| | | 25% | 0,02 N/mm² |
| | ISO 3386-1 100mm/min | 30% | 0,03 N/mm² |
| | | 40% | 0,05 N/mm² |
| | | 50% | 0,07 N/mm² |
| | | 75% | 0,27 N/mm² |

| STEP NOISE | STANDARD | RESULT |
|---|---|---|
| | ISO 10140-8 SS 02 52 67 ISO 717-2 | $\Delta Lw$ 17 - 19dB |

# ACCESSORY HEATING FOIL



10 011 47

**TF TAPE**
50mm  66 meters
Grey  -  10 011 47

Used when installing TFP heating cable mats and TF heating foil.



54 304 30
54 304 40

**TFV UNDERLAY BLUE**
- High compressive strength.
- 40t/400 KPA per m².
- Reduces step noise in the room and improves acoustic properties.
- Good thermal insulation - suitable for use on cold floors, e.g. in basements.
- Lower heating costs.



54 304 12

**TFV CONNECTION TERMINAL**
Package size of 50 pieces. Used during installation of TF heating foil.



54 304 08
54 304 18

**TF RKK 2-ISOLATED WIRE, BLUE**
1,5mm²  100 meters  -  54 304 08
2,5mm²  100 meters  -  54 304 18

Double-insulated wiring for use where extra protection is required, including supply lines for TF heating foil.
Temperature range: -40°C to 90°C
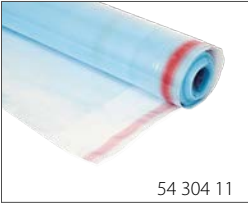IP rating: IPX7



54 304 14

**TF  MASTIC TAPE**
50mm  20 meters
Used during installation of connection clamps on TF heating foil.



54 304 15

**TF DOUBLE-SIDED TAPE**
25mm  105 meters
Used, among other things, during the installation of underlay mats and TF heating foil.



54 304 11

**PE PLASTIC FOIL**
0,20mm  2,6 m x 15 meters
Total area 39m²
- Max temperature 80°C.
- Quick installation.
- No tool usage required
- With an adhesive edge - avoids puncturing the vapor barrier.
- Easy to adjust.



54 304 09
54 304 19

**TF RKK 2-ISOLATED WIRE, BLACK**
1,5mm²  100 meters  -  54 304 09
2,5mm²  100 meters  -  54 304 19

Double-insulated wiring for use where extra protection is required, including supply lines for TF heating foil.
Temperature range: -40°C to 90°C
IP rating: IPX7

| ART. NO. | PRODUCT | COLOR | SIZE |
|---|---|---|---|
| 54 304 30 | TFV underlay Blue  6mm   25 pcs    40 t/m²/ 400KPA | Blue | 0,580 x 1.1 meter   15.9m² |
| 54 304 40 | TFV underlay Blue  6mm   60 pcs  40 t/m² / 400KPA | Blue | 0,580 x 1.1 meter   38.28m² |
| 54 304 08 | TF RKK 2-isolated wire  1,5mm² | Blue | 100 meters |
| 54 304 09 | TF RKK 2-isolated wire  1,5mm² | Black | 100 meters |
| 54 304 18 | TF RKK 2-isolated wire  2,5mm² | Blue | 100 meters |
| 54 304 19 | TF RKK 2-isolated wire  2,5mm² | Black | 100 meters |
| 54 304 11 | PE plastic foil 0,20mm | | 2,6 x 15m  39m² |
| 54 304 12 | TFV connection terminal | | 50 pcs. |
| 54 304 14 | TF mastic tape  50mm | | 50mm   20 meters |
| 54 304 15 | TF double-sided tape  25mm | | 25mm   105 meters |
| 54 304 16 | TFV torque wrench | | For heating foil clips |
| 10 011 47 | TF tape 50mm  grey | Grey | 50mm  66 meters |

# ACCESSORY TFP HEATING CABLE MAT
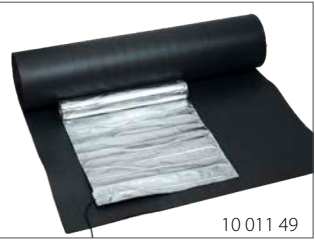


10 011 49



10 011 47



54 304 15

**TFP UNDERLAY MAT**
· Functions as parquet underlay
· Reduces footstep noise
· Thickness 3mm

**TF TAPE**
50mm  66 meters
Grey  -  10 011 47
Clear  -  10 011 48

Used when installing TFP heating cable mats and TF heating foil.

**TF DOUBLE-SIDED TAPE**
25mm  105 meters
Used, among other things, during the installation of underlay mats and TF heating foil.

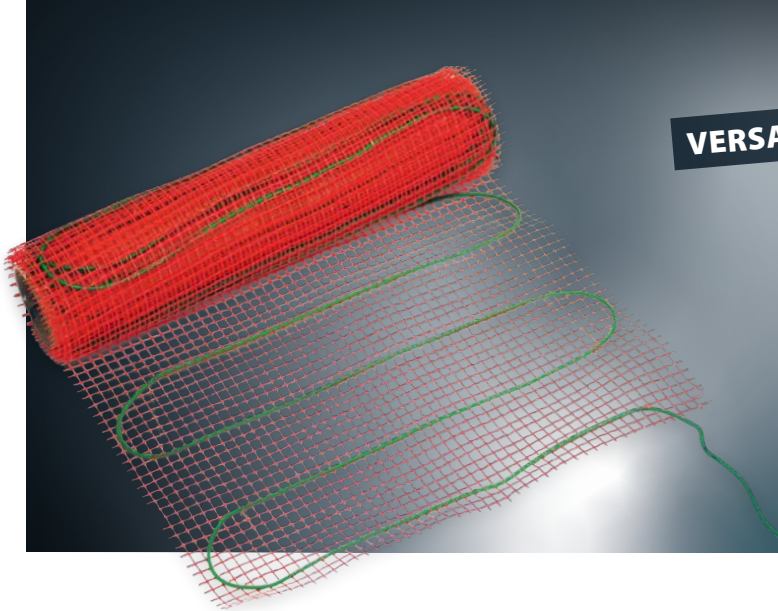| ART. NO. | PRODUCT | SIZE |
|---|---|---|
| 10 011 47 | TF tape  50mm  Grey | 50mm  66 meters |
| 10 011 49 | TFP underlay mat | 3mm  15m² |
| 54 304 15 | TF double-sided tape  25mm | 25mm  105 meters |

# BATHROOMS

Heated floors provide optimal comfort in your bathroom. With a nice, even temperature, you can turn the bathroom into a small spa experience for body and soul. Let your bathroom be a source of quality time in your busy everyday life. We supply heating controls that let you remotely control the heat in the entire house, including the bathroom. In addition to making energy use more efficient with simple regulation and short reaction time, you may also prepare the bathroom with your mobile phone before you get home from work or holidays. No more cold bathroom floors!

**VERSATILE AND SELF-ADHESIVE**

# TF STICKY MAT

TF Sticky Mat is a low build-up, twin conductor grounded heating mat. The build-up ranges from 4 - 20mm depending on the underlay and floor covering. TF Sticky Mat has a heating cable (Ø 3,2mm) placed in a serpentine pattern on a fiberglass mesh, with 80mm space between the cables.

## Low buildup, self-adhesive heating mat

### Advantages
Can be placed directly on wooden floors.
Short center distance provides even heat distribution.
Easy to adapt to areas with obstacles and/or uneven shape.

**Buildup** 4 - 20mm, depending on underlay and covering.

### TECHNICAL DATA

| | |
|---|---|
| Cable type | Twin conductor, screened |
| Rated voltage | 230VAC  50Hz |
| Output pr. m² | 60W + 100W + 130W + 160W |
| Thickness | Ø3.2mm |
| Width | 0.5 meter |
| Length | 2.0 - 24.0 meters |
| Cold lead | 5 meters |
| IP Code | IPX7 |
| Approvals | CE |

### RCD/THERMOSTAT
All heating cables must be equipped with a residual current disrupter with 30mA.
The heating cable installation must be installed with an electronic thermostat for energy efficiency and temperature control.

### AREAS OF USE
TF Sticky Mat can be installed underneath tiles, parquet, laminate, carpets, cork flooring and practically all other floors that are suited for floor heating.
**TF Sticky2 may be placed directly on wooden floors.**

### FLOOR COVERING
Always install TF Sticky Mat in accordance with the installation manual. Please observe that in wet areas, a membrane should always be placed beneath the tile adhesive to ensure that only the tiles, tile adhesive and grout comes in contact with water.

CE

Vinyl · Parquet · Laminate · Carpet · Linoleum
Chipboard · Cork · Tiles · Concrete

For accessories, see TF Sticky2

| ART. NO. | PRODUCT | SIZE | TOTAL OUTPUT | OHM VALUE |
|---|---|---|---|---|
| 10 115 04 | TF Sticky Mat  60W/4m²  240W | 0.5 x 8 meters | 240W | 220 |
| 10 115 05 | TF Sticky Mat  60W/5m²  300W | 0.5 x 10 meters | 300W | 176 |
| 10 115 06 | TF Sticky Mat  60W/6m²  360W | 0.5 x 12 meters | 360W | 147 |
| 10 115 07 | TF Sticky Mat  60W/7m²  420W | 0.5 x 14 meters | 420W | 126 |
| 10 115 08 | TF Sticky Mat  60W/8m²  480W | 0.5 x 16 meters | 480W | 110 |
| 10 115 09 | TF Sticky Mat  60W/9m²  540W | 0.5 x 18 meters | 540W | 98 |
| 10 115 10 | TF Sticky Mat  60W/10m²  600W | 0.5 x 20 meters | 600W | 88 |
| 10 115 12 | TF Sticky Mat  60W/12m²  720W | 0.5 x 24 meters | 720W | 73 |
| 10 115 13 | TF Sticky Mat  100W/3m²  300W | 0.5 x 6 meters | 300W | 176 |
| 10 115 14 | TF Sticky Mat  100W/4m²  400W | 0.5 x 8 meters | 400W | 132 |
| 10 115 15 | TF Sticky Mat  100W/5m²  500W | 0.5 x 10 meters | 500W | 106 |
| 10 115 16 | TF Sticky Mat  100W/6m²  600W | 0.5 x 12 meters | 600W | 88 |
| 10 115 17 | TF Sticky Mat  100W/7m²  700W | 0.5 x 14 meters | 700W | 76 |
| 10 115 18 | TF Sticky Mat  100W/8m²  800W | 0.5 x 16 meters | 800W | 66 |
| 10 115 19 | TF Sticky Mat  100W/9m²  900W | 0.5 x 18 meters | 900W | 59 |
| 10 115 20 | TF Sticky Mat  100W/10m²  1000W | 0.5 x 20 meters | 1000W | 53 |
| 10 115 22 | TF Sticky Mat  100W/12m²  1200W | 0.5 x 24 meters | 1200W | 44 |
| 10 115 23 | TF Sticky Mat  130W/3m²  390W | 0.5 x 6 meters | 390W | 136 |
| 10 115 24 | TF Sticky Mat  130W/4m²  520W | 0.5 x 8 meters | 520W | 102 |
| 10 115 25 | TF Sticky Mat  130W/5m²  650W | 0.5 x 10 meters | 650W | 81 |
| 10 115 26 | TF Sticky Mat  130W/6m²  780W | 0.5 x 12 meters | 780W | 68 |
| 10 115 27 | TF Sticky Mat  130W/7m²  910W | 0.5 x 14 meters | 910W | 58 |
| 10 115 28 | TF Sticky Mat  130W/8m²  1040W | 0.5 x 16 meters | 1040W | 51 |
| 10 115 29 | TF Sticky Mat  130W/9m²  1170W | 0.5 x 18 meters | 1170W | 45 |
| 10 115 50 | TF Sticky Mat  130W/10m²  1300W | 0.5 x 20 meters | 1300W | 41 |
| 10 115 52 | TF Sticky Mat  130W/12m²  1560W | 0.5 x 24 meters | 1560W | 34 |
| 10 115 30 | TF Sticky Mat  160W/1m²  160W | 0.5 x 2 meters | 160W | 331 |
| 10 115 31 | TF Sticky Mat  160W/1.5m²  240W | 0.5 x 3 meters | 240W | 220 |
| 10 115 32 | TF Sticky Mat  160W/2m²  320W | 0.5 x 4 meters | 320W | 165 |
| 10 115 33 | TF Sticky Mat  160W/2.5m²  400W | 0.5 x 5 meters | 400W | 132 |
| 10 115 34 | TF Sticky Mat  160W/3m²  480W | 0.5 x 6 meters | 480W | 110 |
| 10 115 35 | TF Sticky Mat  160W/3.5m²  560W | 0.5 x 7 meters | 560W | 94 |
| 10 115 36 | TF Sticky Mat  160W/4m²  640W | 0.5 x 8 meters | 640W | 83 |
| 10 115 37 | TF Sticky Mat  160W/4.5m²  720W | 0.5 x 9 meters | 720W | 73 |
| 10 115 38 | TF Sticky Mat  160W/5m²  800W | 0.5 x 10 meters | 800W | 66 |
| 10 115 40 | TF Sticky Mat  160W/6m²  960W | 0.5 x 12 meters | 960W | 55 |
| 10 115 42 | TF Sticky Mat  160W/7m²  1120W | 0.5 x 14 meters | 1120W | 47 |
| 10 115 44 | TF Sticky Mat  160W/8m²  1280W | 0.5 x 16 meters | 1280W | 41 |
| 10 115 46 | TF Sticky Mat  160W/9m²  1440W | 0.5 x 18 meters | 1440W | 37 |

**VERSATILE AND SELF-ADHESIVE**

## TECHNICAL DATA

| | |
|---|---|
| Cable type | Twin conductor, screened |
| Rated voltage | 230VAC 50Hz |
| Output pr. m2 | 100W |
| Thickness | Ø 3.2mm |
| Width | 0.5 meters |
| Length | 12.0 - 30.0 meters |
| Max. temperature | 80℃ (nominal value) |
| Cold lead | 5 meters |
| IP Code | IPX7 |
| Approvals | CE |

## RCD/THERMOSTAT

All heating cables must be equipped with a residual current disrupter with 30mA.
The heating cable installation must be installed with an electronic thermostat for energy efficiency and temperature control.

## AREAS OF USE

TF Sticky Mat can be installed underneath tiles, parquet, laminate, carpets, cork flooring and practically all other floors that are suited for floor heating.
**TF Sticky2 may be placed directly on wooden floors.**

## FLOOR COVERING

Always install TF Sticky2 in accordance with the installation manual. Please observe that in wet areas, a membrane should always be placed beneath the tile adhesive to ensure that only the tiles, tile adhesive and grout comes in contact with water.
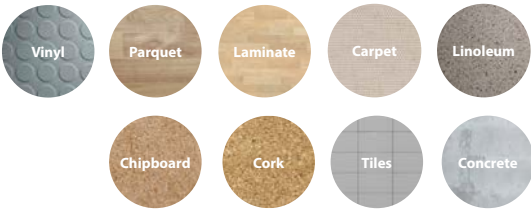
# TF STICKY2

TF Sticky2 is a low buildup, twin conductor grounded heating mat. The buildup ranges from 4 - 20mm depending on the underlay and floor covering. TF Sticky2 has a heating cable (Ø 3,2mm) placed in a serpentine pattern on a fiberglass mesh, with 100mm space between the cables.

## Low buildup, self-adhesive heating mat

**Advantages**
Can be placed directly on wooden floors.

Easy to adapt to areas with obstacles and/or uneven shape.

**Buildup** 4 - 20mm, depending on underlay and covering.

| ART. NO. | PRODUCT | SIZE | TOTAL OUTPUT | OHM VALUE |
|---|---|---|---|---|
| 10 215 86 | TF Sticky2 100W/6m² 600W | 0.5 x 12 meters | 600W | 88 |
| 10 215 87 | TF Sticky2 100W/7m² 700W | 0.5 x 14 meters | 700W | 76 |
| 10 215 88 | TF Sticky2 100W/8m² 800W | 0.5 x 16 meters | 800W | 66 |
| 10 215 89 | TF Sticky2 100W/9m² 900W | 0.5 x 18 meters | 900W | 59 |
| 10 215 90 | TF Sticky2 100W/10m² 1000W | 0.5 x 20 meters | 1000W | 53 |
| 10 215 92 | TF Sticky2 100W/12m² 1200W | 0.5 x 24 meters | 1200W | 44 |
| 10 215 95 | TF Sticky2 100W/15m² 1500W | 0.5 x 30 meters | 1500W | 35 |
| 10 010 76 | TF steel mesh - 1 pcs | 0.77 x 1.17 meters | | |
| 10 010 88 | TF special primer - bottle | 1 liter | | |
| 12 601 00 | TF sensor tube PA Black | Ø 8.5mm 2 meters | | |
| 88 113 20 | TF hot melt adhesive Ø 12mm 23/12/300 | 1 kg | | |
| 88 113 87 | Tec glue gun 806-12 Ø 12mm | 250W | | |

Often used with

Vinyl  Parquet  Laminate  Carpet  Linoleum

Chipboard  Cork  Tiles  Concrete

CE

**ThermoFloor**
— smart heating solutions —

# TF SVK2 10/17W HEATING CABLE

TF SVK2 is a versatile twin conductor heating cable. It is an ideal solution for underfloor heating in poured floor constructions, both in traditional and low buildup floors. It may also be used for snow-melting installations, frost-proofing roof gutters and drains, frost-proofing pipes and keeping ground frost-free.

TF SVK heating cables are available in three different output versions: 10W/m and 17W/m, which are mainly used indoors, and 30W/m which is used outdoors. The heating cable has a UV-resistant outer jacket.

## Heating cable for in-slab installations

### Advantages
- Easy to install
- Low installation costs

**Buildup** No additional buildup, the cable is placed within the poured concrete construction.

## TECHNICAL DATA

| | |
|---|---|
| Cable type | Twin conductor, screened |
| Rated voltage | 230VAC 50Hz |
| Output per m | 10W |
| | 17W |
| Thickness | Ø ~7,5mm |
| Lengths | Indoors: 8.8 - 194.0m |
| | (10W/m + 17W/m) |
| Cold lead | 2.5 meters |
| Approvals | CE |

## RCD/THERMOSTAT

All heating cables must be equipped with a residual current disrupter with 30mA.
The heating cable installation must be installed with an electronic thermostat for energy efficiency and temperature control.

## AREAS OF USE

TF SVK has numerous uses both indoors and outdoors. UV-resistant.

### INDOOR FLOOR COVERING

- Parquet
- Laminate
- Carpet
- Linoleum
- Vinyl/PVC
- Tiles
- Other floor coverings suited for floor heating

### OUTDOOR COVERING

- Concrete
- Pavers
- Use only 17W/m version for roof and gutters

CE

Parquet  Laminate  Carpet  Linoleum  Vinyl  Tiles

| ART. NO. | PRODUCT | SIZE | TOTAL OUTPUT | OHM VALUE | COVERS CA. AREA (M²) | |
|---|---|---|---|---|---|---|
| **TF SVK2 10W** | | | | | **at 60W** | **at 100W** |
| 10 011 11* | TF SVK2 10  100W/10m  10W/m | 10 meters | 100W | 529 | 1.7 | 1 |
| 10 215 26 | TF SVK2 10  150W/15m  10W/m | 15 meters | 150W | 353 | 2.5 | 1.5 |
| 10 215 27 | TF SVK2 10  200W/20m  10W/m | 20 meters | 200W | 265 | 3.3 | 2 |
| 10 215 28 | TF SVK2 10  250W/25m  10W/m | 25 meters | 250W | 212 | 4.1 | 2.5 |
| 10 011 16 | TF SVK2 10  300W/30m  10W/m | 30 meters | 300W | 176 | 5 | 3 |
| 10 011 17 | TF SVK2 10  350W/35m  10W/m | 35 meters | 350W | 151 | 5.8 | 3.5 |
| 10 011 18 | TF SVK2 10  400W/40m  10W/m | 40 meters | 400W | 132 | 6.7 | 4 |
| 10 011 19 | TF SVK2 10  450W/45m  10W/m | 45 meters | 450W | 118 | 7.5 | 4.5 |
| 10 011 20 | TF SVK2 10  500W/50m  10W/m | 50 meters | 500W | 106 | 8.3 | 5 |
| 10 011 25 | TF SVK2 10  600W/60m  10W/m | 60 meters | 600W | 88 | 10 | 6 |
| 10 011 26 | TF SVK2 10  800W/80m  10W/m | 80 meters | 800W | 66 | 13.3 | 8 |
| 10 011 27 | TF SVK2 10  1000W/100m  10W/m | 100 meters | 1000W | 53 | 16.7 | 10 |
| 10 011 30 | TF SVK2 10  1200W/120m  10W/m | 120 meters | 1200W | 44 | 20 | 12 |
| 10 011 41 | TF SVK2 10  1500W/150m  10W/m | 150 meters | 1500W | 35 | 25 | 15 |
| **TF SVK2 17W** | | | | | **at 100W** | **at 150W** |
| 10 011 76* | TF SVK2 17  150W/8.8m  17W/m | 8,8 meters | 150W | 353 | 1.5 | 1 |
| 10 011 77 | TF SVK2 17  300W/17.6m  17W/m | 17,6 meters | 300W | 176 | 3 | 2 |
| 10 011 78 | TF SVK2 17  400W/23.5m  17W/m | 23,5 meters | 400W | 132 | 4 | 2.7 |
| 10 011 79 | TF SVK2 17  500W/30m  17W/m | 30 meters | 500W | 106 | 5 | 3.3 |
| 10 011 81 | TF SVK2 17  600W/35m  17W/m | 35 meters | 600W | 88 | 6 | 4.0 |
| 10 011 84 | TF SVK2 17  700W/41m  17W/m | 41 meters | 700W | 76 | 7 | 4.7 |
| 10 011 85 | TF SVK2 17  850W/50m  17W/m | 50 meters | 850W | 62 | 8.5 | 5.7 |
| 10 011 86 | TF SVK2 17  1000W/59m  17W/m | 59 meters | 1000W | 53 | 10 | 6.7 |
| 10 011 87 | TF SVK2 17  1250W/74m  17W/m | 74 meters | 1250W | 42 | 12.5 | 8.3 |
| 10 011 88 | TF SVK2 17 1500W/88m  17W/m | 88 meters | 1500W | 35 | 15 | 10 |
| 10 011 89 | TF SVK2 17  1700W/100m  17W/m | 100 meters | 1700W | 31 | 17 | 11.3 |
| 10 011 92 | TF SVK2 17  2100W/123m  17W/m | 123 meters | 2100W | 25 | 21 | 14 |
| 10 011 93 | TF SVK2 17  2600W/153m  17W/m | 153 meters | 2600W | 20 | 26 | 17.3 |
| 10 011 94 | TF SVK2 17  2900W/171m  17W/m | 171 meters | 2900W | 18 | 29 | 19.3 |
| 10 011 95 | TF SVK2 17  3300W/194m  17W/m | 194 meters | 3300W | 16 | 33 | 22 |

* TF SVK2 10  100W/10m and TF SVK2 17W  150W/8.8m has no hidden joint

**ThermoFloor**
— smart heating solutions —

# TF BVK 10W HEATING CABLE

TF BVK is a 3.5 mm heating cable that is suitable for low-rise floor constructions. The total construction buildup will in most cases be between 4 mm and 20 mm, depending on the surface and cover.

The sub-floor must be clean, smooth and primed. The BVK may then be laid down and adapted to the desired area. TF BVK is delivered in 10W/m and can be laid directly on wood, chipboards, concrete, etc.

## TECHNICAL DATA

| | |
|---|---|
| Cable type | Twin conductor, screened |
| Rated voltage | 230VAC  50Hz |
| Output pr. m² | 10W |
| Thickness | Ø 3.5mm |
| Lengths | 10.0 - 200.0 meters |
| Cold lead | 6 meters |
| Approvals | CE |

## RCD/THERMOSTAT

All heating cables must be equipped with a residual current disrupter with 30mA.
The heating cable installation must be installed with an electronic thermostat for energy efficiency and temperature control.

## AREAS OF USE

TF BVK has numerous applications indoors.
TF BVK may be installed beneath parquet, laminate, carpet, cork, tiles and most other floors that are suitable for floor heating.

## FLOOR COVERING

- Tiles
- Parquet
- Laminate
- PVC/vinyl floors
- Carpets
- Other floors suitable for floor heating

CE

Vinyl   Parquet   Laminate   Carpet   Linoleum

Chipboard   Cork   Tiles   Concrete

| ART.NO. | PRODUCT | LENGTH | TOTAL EFFECT | OHM VALUE |
|---|---|---|---|---|
| 10 116 10 | TF BVK 10  100W/10m  10W/m | 10 meters | 100W | 529 |
| 10 116 11 | TF BVK 10  150W/15m  10W/m | 15 meters | 150W | 353 |
| 10 116 12 | TF BVK 10  200W/20m  10W/m | 20 meters | 200W | 265 |
| 10 116 13 | TF BVK 10  300W/30m  10W/m | 30 meters | 300W | 176 |
| 10 116 14 | TF BVK 10  400W/40m  10W/m | 40 meters | 400W | 132 |
| 10 116 15 | TF BVK 10  500W/50m  10W/m | 50 meters | 500W | 106 |
| 10 116 16 | TF BVK 10  600W/60m  10W/m | 60 meters | 600W | 88 |
| 10 116 17 | TF BVK 10  700W/70m  10W/m | 70 meters | 700W | 76 |
| 10 116 18 | TF BVK 10  800W/80m  10W/m | 80 meters | 800W | 66 |
| 10 116 19 | TF BVK 10  900W/90m  10W/m | 90 meters | 900W | 59 |
| 10 116 20 | TF BVK 10  1000W/100m  10W/m | 100 meters | 1000W | 53 |
| 10 116 22 | TF BVK 10  1200W/120m  10W/m | 120 meters | 1200W | 44 |
| 10 116 24 | TF BVK 10  1400W/140m  10W/m | 140 meters | 1400W | 38 |
| 10 116 26 | TF BVK 10  1600W/160m  10W/m | 160 meters | 1600W | 33 |
| 10 116 28 | TF BVK 10  1800W/180m  10W/m | 180 meters | 1800W | 29 |
| 10 116 29 | TF BVK 10  2000W/200m  10W/m | 200 meters | 2000W | 27 |

## OUTDOOR

Winter can present challenges with lots of snow and ice on the ground. With heat in the driveway, entrance area and walkway, you can avoid insecurity and injuries. Think about the safety of those you care about and install heating and heating controls outdoors. We offer heating control solutions adapted to outdoor use and snow melting automation. Control outdoor heating based on temperature and precipitation, and experience a safe and ice-free winter.

**ThermoFloor**
— smart heating solutions —

## TECHNICAL DATA

| | |
|---|---|
| Cable type | Twin conductor |
| Rated voltage | 230VAC + 400V  50Hz |
| Output pr. m² | 300W |
| Cable diameter | Ø5mm |
| Lengths | 230VAC: 2.0 - 28.0 meters |
| | 400VAC: 4.0 - 40.0 meters |
| Cold lead | 5 meters |
| IP Code | IPX7 |
| Approvals | CE |

## RCD/THERMOSTAT

All heating cables must be equipped with a residual current disrupter with 30mA.
The heating cable installation must be installed with an electronic thermostat for energy efficiency and temperature control.

## AREAS OF USE

- Outdoors
- Pavements and walkways
- Driveway tire tracks
- Ramps
- Patios

## COVERING

- Asphalt, concrete and pavers

# TFU2 HEATING CABLE MAT

Thermo-Floor offers several solutions for melting snow and ice. The TFU2 heating cable mat can withstand temperatures under installation up to 270°C, and it may be covered with hot asphalt without additional covering. This takes the response time down to a minimum, and eliminates the cost of covering the cables with aggregate. The TFU2 heating cable mat may also be installed underneath pavers or poured concrete. TFU2 can be used both for whole and partial covering of areas. The mat width is 50cm, which makes it very well suited for laying down in tire tracks on driveways etc.

The heating cable can be laid out to cover either part of or an entire area. The element width of 50cm makes it especially suitable for tire tracks for vehicles.

The TFU2 heating cable mat has a twin conductor cable with an output of 300W/m². TFU2 is available both for 230VAC and 400VAC.

| ART. NO. | PRODUCT | SIZE | TOTAL OUTPUT | OHM VALUE |
|---|---|---|---|---|
| 10 115 71 | TFU2  230VAC  300W/1m²  300W | 0.5 x 2 meters | 300W | 176 |
| 10 115 72 | TFU2  230VAC  300W/2m²  600W | 0.5 x 4 meters | 600W | 88 |
| 10 115 73 | TFU2  230VAC  300W/3m²  900W | 0.5 x 6 meters | 900W | 59 |
| 10 115 74 | TFU2  230VAC  300W/4m²  1200W | 0.5 x 8 meters | 1200W | 44 |
| 10 115 75 | TFU2  230VAC  300W/5m²  1500W | 0.5 x 10 meters | 1500W | 35 |
| 10 115 76 | TFU2  230VAC  300W/6m²  1800W | 0.5 x 12 meters | 1800W | 29 |
| 10 115 77 | TFU2  230VAC  300W/7m²  2100W | 0.5 x 14 meters | 2100W | 25 |
| 10 115 78 | TFU2  230VAC  300W/8m²  2400W | 0.5 x 16 meters | 2400W | 22 |
| 10 115 80 | TFU2  230VAC  300W/10m²  3000W | 0.5 x 20 meters | 3000W | 18 |
| 10 115 82 | TFU2  230VAC  300W/12m²  3600W | 0.5 x 24 meters | 3600W | 15 |
| 10 115 84 | TFU2  230VAC  300W/14m²  4200W | 0.5 x 28 meters | 4200W | 13 |
| 10 115 85 | TFU2  **400V**AC  300W/2m²  600W | 0.5 x 4 meters | 600W | 267 |
| 10 115 86 | TFU2  **400V**AC  300W/5m²  1500W | 0.5 x 10 meters | 1500W | 107 |
| 10 115 87 | TFU2  **400V**AC  300W/10m²  3000W | 0.5 x 20 meters | 3000W | 53 |
| 10 115 88 | TFU2  **400V**AC  300W/15m²  4500W | 0.5 x 30 meters | 4500W | 36 |
| 10 115 89 | TFU2  **400V**AC  300W/20m²  6000W | 0.5 x 40 meters | 6000W | 27 |
| 54 301 77 | Multireg IceControl Pro - snow melting regulator | | | |
| 54 301 71 | IceControl ground sensor pocket | | | |
| 54 301 75 | IceControl ground sensor  TF GS 15m cold lead | | | |
| 54 301 79 | IceControl ground sensor  TF GS 25m cold lead | | | |
| 54 301 76 | IceControl air sensor  TF AIS | | | |

Often used with

Asphalt   Concrete   Pavers

CE

ThermoFloor
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# TF SVK2 30W
# HEATING CABLE

TF SVK2 is a versatile twin conductor heating cable. It is an ideal solution for snow-melting installations, frost-proofing roof gutters and drains, frost-proofing pipes and keeping ground frost-free.

The SVK2 heating cable may also be installed underneath pavers or poured concrete. TF SVK2 heating cable can be used both for whole and partial covering of areas.

TF SVK2 heating cable is available both for 230VAC and 400VAC.

## TECHNICAL DATA

| | |
|---|---|
| Cable type | Twin conductor, screened |
| Rated voltage | 230VAC + 400VAC  50Hz |
| Output per m | 30W |
| Thickness | Ø ~7.5mm |
| Lengths | Outdoors: 10.0 - 200.0m |
| Cold lead | 3.5 meters |
| IP Code | IPX7 |
| Approvals | CE |

## RCD/THERMOSTAT

All heating cables must be equipped with a residual current disrupter with 30mA.
The heating cable installation must be installed with an electronic thermostat for energy efficiency and temperature control.

## AREAS OF USE

Outdoor

## OUTDOOR COVERING

- Concrete
- Pavers
- Use only 17W/m version for roof and gutters

CE

Concrete   Pavers   Roof gutters
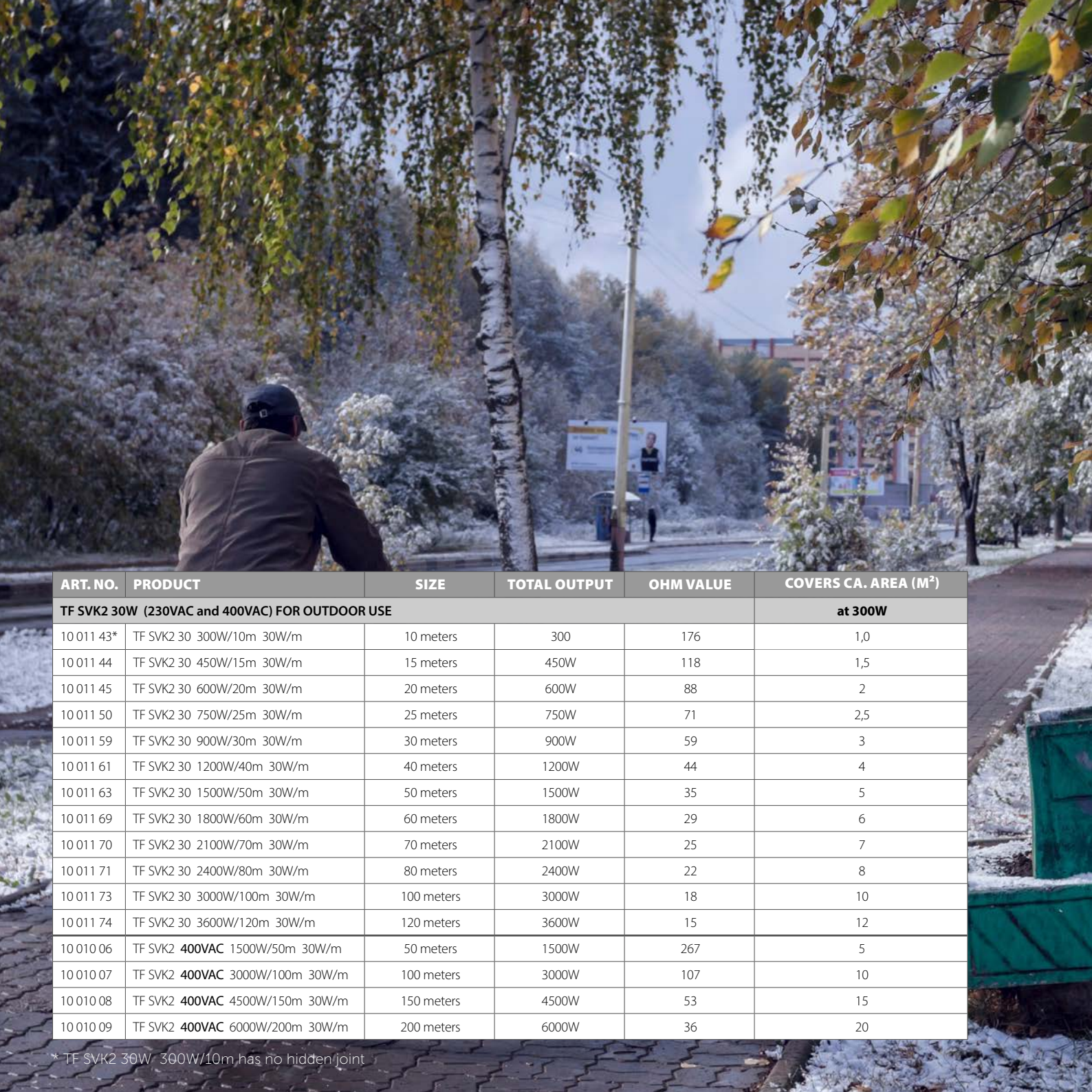
| ART. NO. | PRODUCT | SIZE | TOTAL OUTPUT | OHM VALUE | COVERS CA. AREA (M²) |
|---|---|---|---|---|---|
| **TF SVK2 30W  (230VAC and 400VAC) FOR OUTDOOR USE** | | | | | **at 300W** |
| 10 011 43* | TF SVK2 30  300W/10m  30W/m | 10 meters | 300 | 176 | 1,0 |
| 10 011 44 | TF SVK2 30  450W/15m  30W/m | 15 meters | 450W | 118 | 1,5 |
| 10 011 45 | TF SVK2 30  600W/20m  30W/m | 20 meters | 600W | 88 | 2 |
| 10 011 50 | TF SVK2 30  750W/25m  30W/m | 25 meters | 750W | 71 | 2,5 |
| 10 011 59 | TF SVK2 30  900W/30m  30W/m | 30 meters | 900W | 59 | 3 |
| 10 011 61 | TF SVK2 30  1200W/40m  30W/m | 40 meters | 1200W | 44 | 4 |
| 10 011 63 | TF SVK2 30  1500W/50m  30W/m | 50 meters | 1500W | 35 | 5 |
| 10 011 69 | TF SVK2 30  1800W/60m  30W/m | 60 meters | 1800W | 29 | 6 |
| 10 011 70 | TF SVK2 30  2100W/70m  30W/m | 70 meters | 2100W | 25 | 7 |
| 10 011 71 | TF SVK2 30  2400W/80m  30W/m | 80 meters | 2400W | 22 | 8 |
| 10 011 73 | TF SVK2 30  3000W/100m  30W/m | 100 meters | 3000W | 18 | 10 |
| 10 011 74 | TF SVK2 30  3600W/120m  30W/m | 120 meters | 3600W | 15 | 12 |
| 10 010 06 | TF SVK2  **400VAC**  1500W/50m  30W/m | 50 meters | 1500W | 267 | 5 |
| 10 010 07 | TF SVK2  **400VAC**  3000W/100m  30W/m | 100 meters | 3000W | 107 | 10 |
| 10 010 08 | TF SVK2  **400VAC**  4500W/150m  30W/m | 150 meters | 4500W | 53 | 15 |
| 10 010 09 | TF SVK2  **400VAC**  6000W/200m  30W/m | 200 meters | 6000W | 36 | 20 |

* TF SVK2 30W  300W/10m has no hidden joint

CONCRETE CURING

# TF BHK HEATING CABLE

The TF BHK heatng cable is used for concrete curing and preheating of concrete before pouring. It helps counteract temperature-related stresses in the concrete that can lead to cracking and delamination.

By using the TF BHK heating cable, the contractor saves time and money as the foundation itself is covered with winter mats. Typically, there's no need for large heaters or similar equipment to raise the temperature of the concrete base.

TF BHK concrete curing cable speeds up the hardening of the concrete, and the framework may be removed faster. Overall, this helps save time in the construction process.

### TECHNICAL DATA

| | |
|---|---|
| Cable type | Twin conductor, screened |
| Rated voltage | 230VAC  50Hz |
| Output per m | 40W |
| Thickness | Ø5.5mm $\pm$ 0.5mm |
| Lengths | 3.3 - 85 meters |
| Cold lead | 2 meters with Schuko Europlug |
| IP Code | IPX7 |
| Approvals | CE |

### RCD/THERMOSTAT

All heating cables must be equipped with a residual current disrupter with 30mA.
The heating cable installation must be installed with an electronic thermostat for energy efficiency and temperature control.

### AREAS OF USE

TF BHK is a heating cable used for curing and drying concrete. Can be used in all foundations, columns and supports.
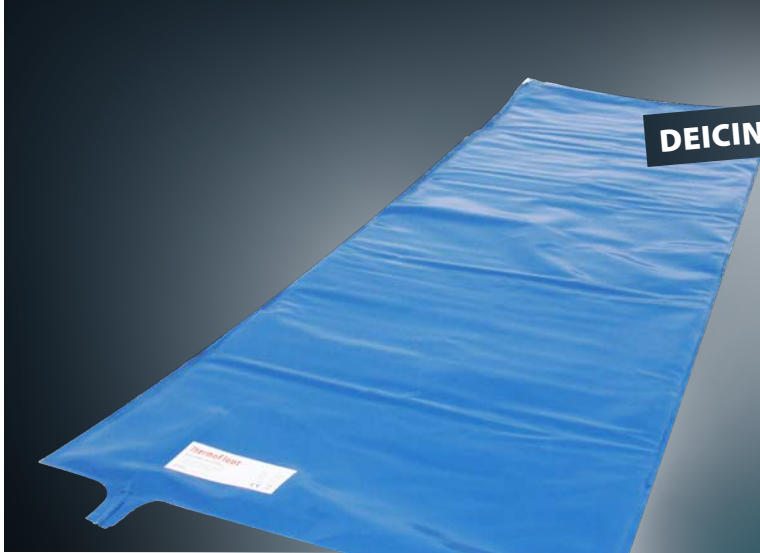
### COVERING

• Concrete

TF BHK concrete curing cable is used instead of additives in the concrete for faster curing.

Normally, the heat cable is cut after the concrete has finished curing.

Concrete

| ART. NO. | PRODUCT | SIZE | TOTAL OUTPUT | OHM VALUE |
|---|---|---|---|---|
| 10 114 52 | TF BHK  40W/ 3,3m  130W | 3.3 meters | 130W | 407 |
| 10 114 53 | TF BHK  40W/10m  400W | 10 meters | 400W | 132 |
| 10 114 54 | TF BHK  40W/20m  800W | 20 meters | 800W | 66 |
| 10 114 55 | TF BHK  40W/ 35m  1400W | 35 meters | 1400W | 38 |
| 10 114 56 | TF BHK  40W/50m  2000W | 50 meters | 2000W | 26 |
| 10 114 58 | TF BHK  40W/ 85m  3500W | 85 meters | 3500W | 15 |

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DEICING MAT

# TF DEICING MAT

TF deicing mat is a heating cable mat commonly for thawing frozen ground and soil, melting snow and ice and curing concrete.
Frozen pipes, snowy construction sites and frozen ground are common problems for many kinds of works in the cold season. The TF deicing mat thaws frozen ground fast, gently defrosts frozen pipes, and melts ice and snow anywhere.
TF deicing mat may also be used for concrete hardening.

The TF deicing mat is made from reinforced PVC with a built-in armored heating cable and heat-resistant insulation. The deicing mat has 4 eyelets for fastening.

The deicing mat is connected via the supplied EURO plug and lead wire to a standard 230VAC outlet.

### TECHNICAL DATA

| | |
|---|---|
| Cable type | Twin conductor, screened |
| Rated voltage | 230VAC  50Hz |
| Output per m | 1000W |
| Size | 1.10 x 3.0 meters |
| IP Code | IP44 |
| Approvals | CE |

### AREAS OF USE

• Curing concrete and foundations
• Defrosting mortar and asphalt
• Thawing frozen ground/earth
• Short-term frost-proofing of pipes and drains
• Short-time frost-proofing of brickwork

Deicing mats must only be used for short-term thawing and frost-proofing (e.g. when doing excavation work and maintenance), and should not be continuously connected. The mat must not be connected to a power source while rolled up.



| ART. NO. | PRODUCT | SIZE | TOTAL OUTPUT |
|---|---|---|---|
| 10 011 99 | TF Deicing Mat  1000W | 1.10 x 3 meters | 1000W |

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# TF HEATING CABLE MAT

TF roof mat is a heating cable mat designed to prevent the build-up of snow and ice on roofs with internal drainage solutions by ensuring that the drains are kept open.

New and improved insulation in roof constructions has resulted in less heat loss from heating in all types of buildings, which overall is an advantage both for the environment and the individual. However, this means that the roof constructions are colder on the outside than they used to be, and because of this, larger amounts of snow and ice accumulate on the roof.

TF roof mat solves this problem by keeping internal drainage ice-free. The mat is placed underneath the roof covering around the drain, and may also be installed in gutters on the roof.

## TECHNICAL DATA

| | |
|---|---|
| Cable type | Twin conductor, screened |
| Rated voltage | 230VAC  50Hz |
| Output per m | 300W |
| Thickness | Ø 1.4mm |
| Size WxL | 0.8 x 0.8 meters |
| | 1.0 x 1.0 meters |
| | 0.5 x 1.2 meters |
| | 0.5 x 2.0 meters |
| | 0.5 x 3.0 meters |
| Approvals | CE |

## RCD/THERMOSTAT

All heating cables must be equipped with a residual current disrupter with 30mA.
The heating cable installation must be installed with an electronic thermostat for energy efficiency and temperature control.

## AREAS OF USE

Installation under roofing for removing ice around roof drains.
**For outdoor use only.**

## COVERING

• Roof covering

CE

Roof covering

| ART. NO. | PRODUCT | SIZE | TOTAL OUTPUT | OHM VALUE |
|---|---|---|---|---|
| 10 010 00 | TF Heating Cable Mat  0.8x0.8m  192W | 0.64m² | 192W | 276 |
| 10 010 01 | TF Heating Cable Mat 1.0x1.0m  300W | 1.0m² | 300W | 176 |
| 10 010 02 | TF Heating Cable Mat  0.5x1.2m  180W | 0.6m² | 180W | 294 |
| 10 010 03 | TF Heating Cable Mat  0.5x2.0m  300W | 1.0m² | 300W | 176 |
| 10 010 04 | TF Heating Cable Mat  0.5x3.0m  450W | 1.5m² | 450W | 118 |

# SELF-LIMITING HEATING CABLES

Water that freezes can cause major damage. With self-limiting heating cables in combination with a thermostat, you can protect pipes, valves, drains and gutters from freezing. Thermo-Floor AS has a wide range of self-limiting heating cables with high output and low energy consumption, a good way of keeping your home and cabin safe from water damage through the winter months.

Consult your electrician

ThermoFloor
— smart heating solutions —

# TF SBG BLUE 2

## TECHNICAL DATA

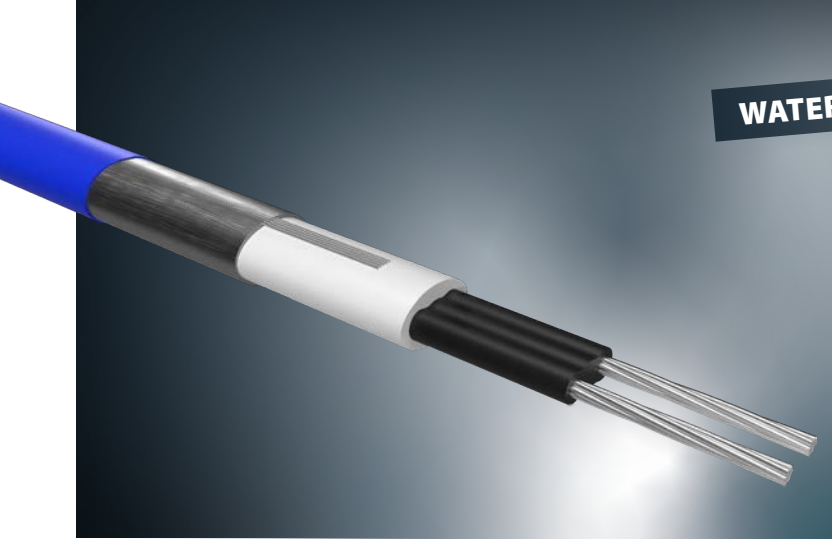| | |
|---|---|
| Outer sheath | Fluoropolymer |
| Grounding | Braided, tinted copper wire |
| Bus wire | Nickel plated copper |
| Rated voltage | 230VAC |
| Output pr. meter | 10W |
| Cross section | 7.7 x 5.1mm |
| Cold lead | 2 meters |
| IP Code | IPX7 |
| Approvals | CE |

The heating cables may be cut to the desired length.

### RCD/THERMOSTAT

All heating cables must be equipped with a residual current disrupter with 30mA.
The heating cable installation must be installed with an electronic thermostat for energy efficiency and temperature control.

### AREAS OF USE

• Cottages/ cabins / storage houses / warehouses / residences
• Wells
• Water pipes

CE

**Heating cable in set lengths for frost protection water pipes**
TF SBG Blue 2 is a food-approved (drinking water-approved)
self-limiting heating cable for frost protection of water pipes.
The heating cable can be laid on the outside or inside of water pipes.
The cable is PVC-free and UV-resistant.

| ART. NO. | PRODUCT | SIZE | TOTAL OUTPUT |
|---|---|---|---|
| 10 215 76 | TF SBG Blue 2  10W/2m  20W w/plug | 2 meters | 20W |
| 10 215 77 | TF SBG Blue 2  10W/4m  40W w/plug | 4 meters | 40W |
| 10 215 78 | TF SBG Blue 2  10W/6m  60W w/plug | 6 meters | 60W |
| 10 215 79 | TF SBG Blue 2  10W/8m  80W w/plug | 8 meters | 80W |
| 10 215 80 | TF SBG Blue 2  10W/10m  100W w/plug | 10 meters | 100W |
| 10 251 81 | TF SBG Blue   10W/13m  130W w/plug | 13 meters | 130W |
| 10 215 82 | TF SBG Blue 2  10W/20m  200W w/plug | 20 meters | 200W |
| 10 215 73 | TF SBG Blue   10W/25m  250W w/plug | 25 meters | 250W |
| 10 114 66 | TF Flex pipe insulation  25 meters | 25 meters | |
| 10 114 69 | TF SBG packing box | Stainless steel | |
| 10 114 71 | TF SBG packing box water pipe 3/4" | Brass | |
| 10 114 81 | TF alu tape  50mm | 50mm  10 meters | |

ThermoFloor
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# TF SBG-FP

## TECHNICAL DATA

| | |
|---|---|
| Outer sheath | Fluoropolymer |
| Grounding | Braided, tinted copper wire |
| Bus wire | Nickel plated copper |
| Rated voltage | 230VAC |
| Output pr. meter | 10W |
| Cross section | 7.7 x 5.1mm |
| Cold lead | 2 meters |
| IP Code | IPX7 |
| Approvals | CE |

The heating cables may be cut to the desired length.

### RCD/THERMOSTAT

All heating cables must be equipped with a residual current disrupter with 30mA.
The heating cable installation must be installed with an electronic thermostat for energy efficiency and temperature control.

### AREAS OF USE

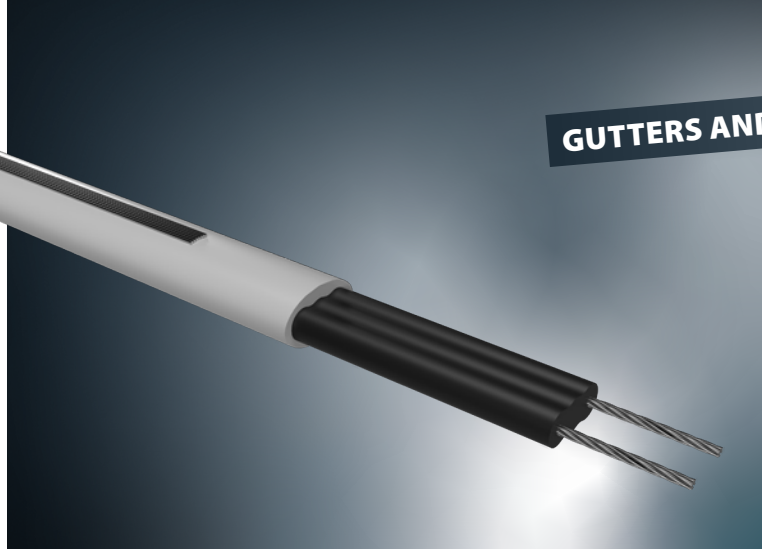• Cottages / Cabins / Storage houses / Warehouses / Residences
• Wells
• Water pipes

CE

**Nutrient-approved heating cable
for frost protection water pipes**
TF SBG-FP is a food-approved (drinking water-approved) self-limiting heating cable for frost protection of water pipes. The heating cable can be laid on the outside or inside of water pipes. PVC-free and UV-resistant.

Bus wire 0,56mm²

Selvf-limiting heating element

Insulation

Ground wire with nickel coated copper

Protective aluminium foil

Outer sheath Polyolefin

| ART. NO. | PRODUCT |
|---|---|
| 10 114 00 | TF SBG-FP  10W/m  Blue |

Often used with

| ART. NO. | PRODUCT |
|---|---|
| 10 114 66 | TF Flex pipe insulation  25 meters |
| 10 114 68 | TF SBG splicing kit |
| 10 114 69 | TF SBG packing bok stainless steel |
| 10 114 71 | TF SBG packing box water pipe 3/4" |
| 10 114 81 | TF alu tape  50mm  10 meters |

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# TF SBG-T

**Heating cable for frost protection gutters and drainage systems**

TF SBG-T is a self-limiting heating cable designed to withstand temperatures up to 80 ° C. The heating cable is suitable as frost protection in connection with houses, plants and industrial installations.

Bus wire 1,0mm²

Selvf-limiting heating element

Insulation

Protective conductor Cu, til plated

Protective aluminium foil
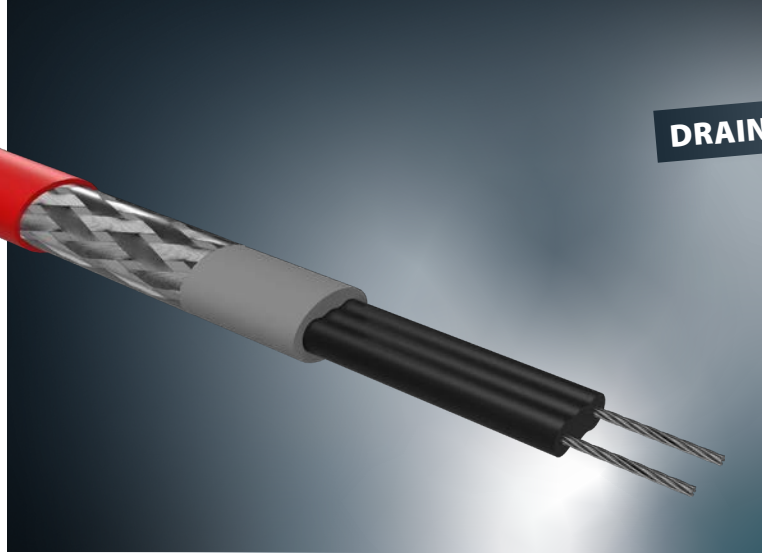
Outer sheath Polyolefin

## TECHNICAL DATA

| | |
|---|---|
| Outer sheath | Polyolefin - UV-resistant |
| Grounding | Tin plated copper with protective aluminium foil |
| Bus wire | Nickel plated copper |
| Rated voltage | 230VAC |
| Output pr. meter | 15W |
| | 25W |
| Cross section | 0.5 x 5.8mm |
| IP Code | IPX7 |
| Approvals | CE |

The heating cable may be cut to the desired length.

## RCD/THERMOSTAT

All heating cables must be equipped with a residual current disrupter with 30mA.
The heating cable installation must be installed with an electronic thermostat for energy efficiency and temperature control.

## AREAS OF USE

- Roof gutters
- Drainpipes
- Flat roofs

CE

| ART. NO. | PRODUCT |
|---|---|
| 10 114 50 | TF SBG-T  15W/m  Black |
| 10 114 59 | TF SBG-T  20W/m  Black |
| 10 114 60 | TF SBG-T  25W/m  Black |

Often used with

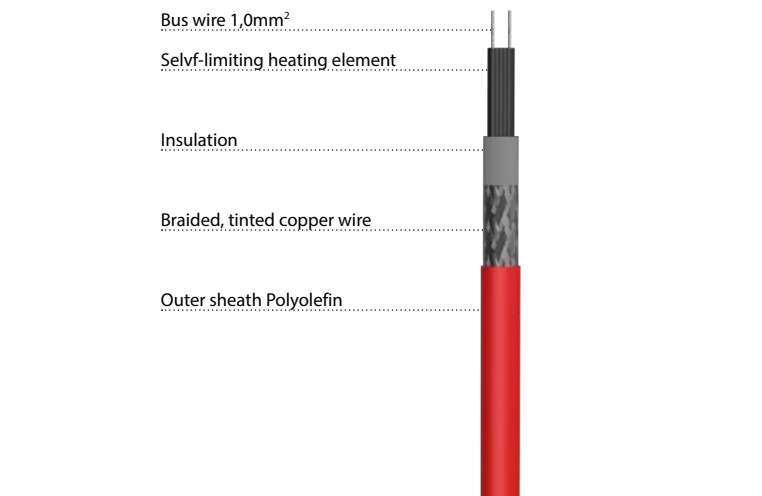| ART. NO. | PRODUCT |
|---|---|
| 10 114 68 | TF SBG splicing kit |
| 10 114 81 | TF alu tape  50mm  10 meters |
| 10 114 93 | TF wire clamp u-bolt  5mm |
| 10 114 94 | TF steel wire  4mm |
| 10 114 96 | TF fastening clamp for snow catchers  Metal |
| 10 114 97 | TF fastening clamp for snow catchers plastic  Black |
| 10 114 99 | TF strain releaver for gutters |
| 54 301 66 | Multireg DIN±  thermostat  3600W 16A |
| 54 301 67 | Eberle STR-E 3102 thermostat |
| 18 504 51 | TF EH end cap  14/4 60mm  Black |
| 10 113 82 | Shark 506 gel-box 0.6/1 KV |

## TECHNICAL DATA

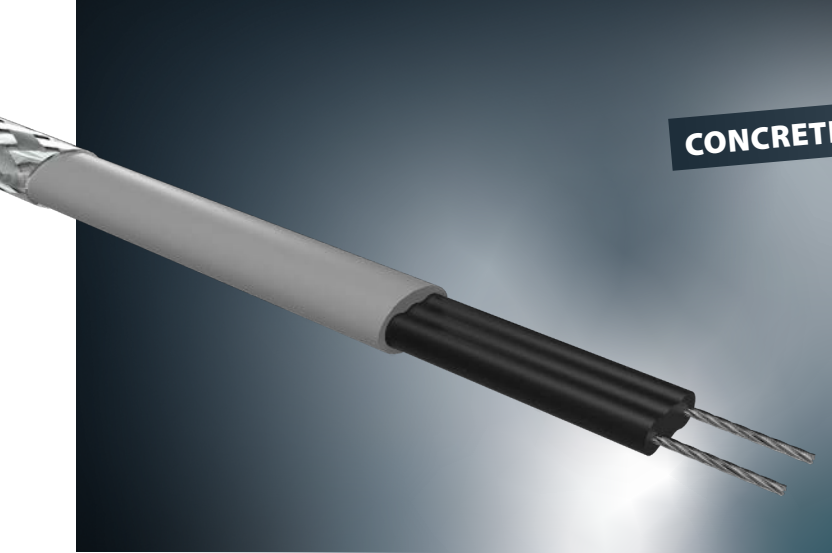| | |
|---|---|
| **Outer sheath** | Fluoropolymer |
| **Grounding** | Braided, tinted copper wire |
| **Bus wire** | Nickel plated copper |
| **Rated voltage** | 230VAC |
| **Output pr. meter** | 10W |
| | 25W |
| **Cross section** | 11.2 x 6.1mm |
| **IP Code** | IPX7 |
| **Approvals** | CE |

The heating cable may be cut to the desired length.

### RCD/THERMOSTAT

All heating cables must be equipped with a residual current disrupter with 30mA.
The heating cable installation must be installed with an electronic thermostat for energy efficiency and temperature control.
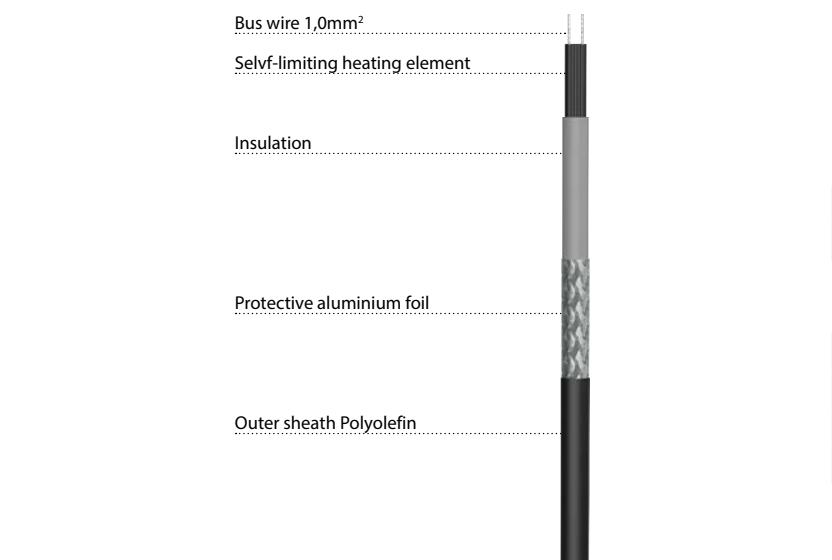
### AREAS OF USE

- Drainpipes, sewage, gutters
- Subsurface tanks and wells

CE

# TF SBG-SW

**Heating cable for drains and gutters**

TF SBG-SW is a self-limiting heating cable for use as frost protection for drainage and sewage systems.

The heating cable has a thicker outer sheath than most other self-limiting cables and can therefore withstand being in a "tougher" environment. TF SBG-SW is ordered by the meter. Maximum length is 135 meters on a 20A course at -10 ° C. A thermostat must always be used for regulation.

Bus wire 1,0mm²

Selvf-limiting heating element

Insulation

Braided, tinted copper wire

Outer sheath Polyolefin

| ART. NO. | PRODUCT |
|---|---|
| 10 113 90 | TF SBG-SW  10W/m  Red |
| 10 113 96 | TF-SBG-SW  25W/m  Red |

Often used with

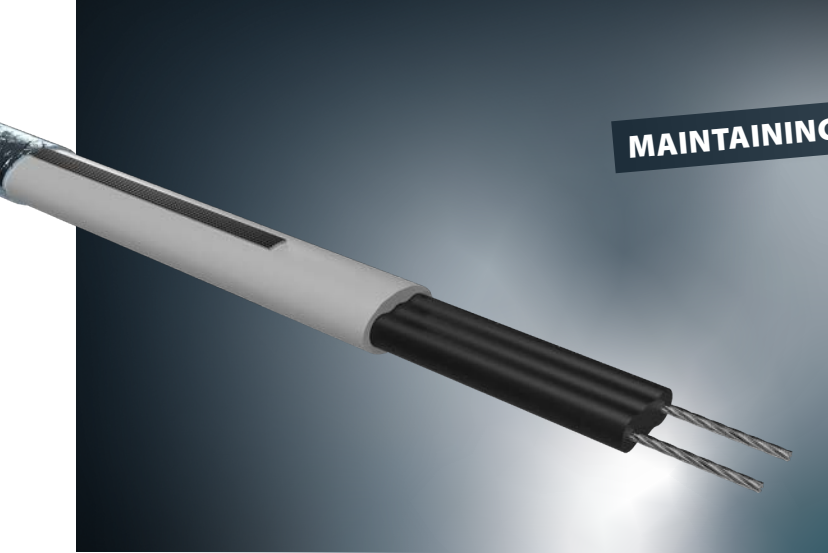| ART. NO. | PRODUCT |
|---|---|
| 10 114 68 | TF SBG splicing kit |
| 10 114 69 | TF SBG packing box stainless steel |
| 54 301 66 | Multireg DIN± thermostat  3600W  16A |
| 45 900 94 | Thermostat with floor sensor ETN4-1999 |
| 10 113 82 | Shark 506 gel-box 0.6/1 KV |

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## TECHNICAL DATA

| | |
|---|---|
| **Outer sheath** | Polyolefin |
| **Grounding** | Braided, tinted copper wire |
| **Bus wire** | Nickel plated copper |
| **Rated voltage** | 230VAC |
| **Output pr. meter** | 34W |
| **Cross section** | 13.5 x 6.2mm |
| **IP Code** | IPX7 |
| **Approvals** | CE |

The heating cable may be cut to the desired length.

### RCD/THERMOSTAT

All heating cables must be equipped with a residual current disrupter with 30mA.
The heating cable installation must be installed with an electronic thermostat for energy efficiency and temperature control.

### AREAS OF USE

- Steps and landings
- Walkways and driveways
- Underneath loading dock doors

CE

# TF SBG-BR

**Heating cable for concrete constructions**

TF SBG-BR is a self-limiting heating cable for use in concrete structures both outdoors and indoors.

Bus wire 1,0mm²

Selvf-limiting heating element

Insulation

Protective aluminium foil

Outer sheath Polyolefin

| ART. NO. | PRODUCT |
|---|---|
| 10 113 95 | TF SBG-BR  34W/m |

Often used with

| ART. NO. | PRODUCT |
|---|---|
| 10 114 68 | TF SBG splicing kit |
| 54 301 66 | Multireg DIN± thermostat  3600W  16A |
| 45 900 94 | Thermostat with floor sensor ETN4-1999 |

**ThermoFloor**
— smart heating solutions —

## TECHNICAL DATA

| | |
|---|---|
| Outer sheath | Polyolefin |
| Grounding | Tin plated copper with protective aluminium foil |
| Bus wire | Nickel plated copper |
| Rated voltage | 230VAC |
| Output pr. meter | 25W |
| | 28W |
| Cross section | 12.3 x 6.0mm |
| IP Code | IPX7 |
| Approvals | CE |

The heating cable may be cut to the desired length.

## RCD/THERMOSTAT

All heating cables must be equipped with a residual current disrupter with 30mA.
The heating cable installation must be installed with an electronic thermostat for energy efficiency and temperature control.

CE

# TF SBG-W

**Heating cable for maintaining water temperature**

Modern hot water systems require an optimal water temperature every time you turn on the hot water. With the self-limiting heating cable SBG-W, you can get a system that is completely free of maintenance costs while at the same time being energy-saving. The heating cable is used in schools, hospitals, hotels and public buildings. The cable saves water since hot water is maintained in the water pipes, thus reducing both energy consumption and operating costs.

TF SBG-W should be used together with a thermostat that increases the water temperature to 65-70 ° C for thermal disinfection of piping.

| ART. NO. | PRODUCT |
|---|---|
| 10 114 61 | TF SBG-W55  25W/m  Grey |
| 10 114 62 | TF SBG-W65  28W/m  Grey |

Often used with

| ART. NO. | PRODUCT |
|---|---|
| 10 114 68 | TF SBG splicing kit |
| 10 114 72 | TF alu tape  50mm 10 meters |
| 45 900 94 | Thermostat with floor sensor ETN4-1999 |

---

**ThermoFloor**
— smart heating solutions —

## TECHNICAL DATA

| | |
|---|---|
| Outer sheath | Polyolefin |
| Grounding | Braided, tinted copper wire |
| Bus wire | Nickel plated copper |
| Rated voltage | 230VAC |
| Output pr. meter | 34W |
| Cross section | 13.5 x 6.2mm |
| IP Code | IPX7 |
| Approvals | CE |

The heating cable may be cut to the desired length.

## RCD/THERMOSTAT

All heating cables must be equipped with a residual current disrupter with 30mA.
The heating cable installation must be installed with an electronic thermostat for energy efficiency and temperature control.

## AREAS OF USE

- Steps and landings
- Walkways and driveways
- Underneath loading dock doors

CE

# TF SBG-H

**Heating cable for extreme conditions**

TF SBG-H is a self-limiting heating cable designed for use in high temperature environments. The heating cable is suitable for frost protection, but can also be used to maintain a constant temperature on pipes, taps and containers.
Although the product has many uses, it is mostly used in the chemical and petrochemical industries. TF SBG-H is available in several effects. With a fluoropolymer outer sheath, better known as Teflon, the product is well suited for use with aggressive chemicals, oils, gasoline and diesel. The product is UV-resistant. TF SBG-H is approved for use in potentially explosive atmospheres and can be used at temperatures up to 200℃.

| ART. NO. | PRODUCT |
|---|---|
| 10 113 31 | TF SBG-H  10W/m max 200℃  Red |
| 10 113 32 | TF SBG-H  20W/m max 200℃  Red |
| 10 113 33 | TF SBG-H  30W/m max 200℃  Red |
| 10 113 34 | TF SBG-H  45W/m max 200℃  Red |
| 10 113 36 | TF SBG-H  60W/m max 200℃  Red |

Often used with

| ART. NO. | PRODUCT |
|---|---|
| 10 114 68 | TF SBG splicing kit |
| 10 114 69 | TF SBG packing box stainless steel |
| 10 114 81 | TF alu tape  50mm |

# SNOW MELTING
# AUTOMATION

Dry and ice-free all winter through. Snow melting automation on stairs and entrance areas, under asphalt, paving stones or tiles contributes to complete your home comfort. No maintenance, just easy and safe access all year round. With energy-efficient solutions you can choose the "green heating" outdoors, too.

Consult your electrician

# Ice and snow-free areas, whenever and wherever.

With modern snowmelting automation and frost protection, there is no need to wait for spring. It comes whenever you decide. The Multireg IceControl Pro snow melting controller contributes to energy-efficient solutions with heating cables in the ground, and ensures snow and ice-free access all year round. Sanding and salting is a thing of the past - wear your slippers when going to your mailbox.

- Ground sensor with moisture and temperature sensor.
- Wall-mounted precipitation sensor.
- Gutter sensor.
- External air sensor.
- Control of up to two zones with the possibility of prioritizing between the zones.
- The system may be calibrated for optimal energy utilization and functionality.
- The system has the option of a signal input from the SD system (MODBUS 485).
- Input for external override.
- Output for external notification in the event of a malfunction.

**TF SVK2 30W HEATING CABLE**
TF SVK2 is a versatile 2-wire heating cable.
Used for snow-melting installations, frost-proofing roof, frost proofing pipes and keeping ground frost-free.

**TFU2 HEATING MAT**
Outdoor heating mat for melting snow and ice.
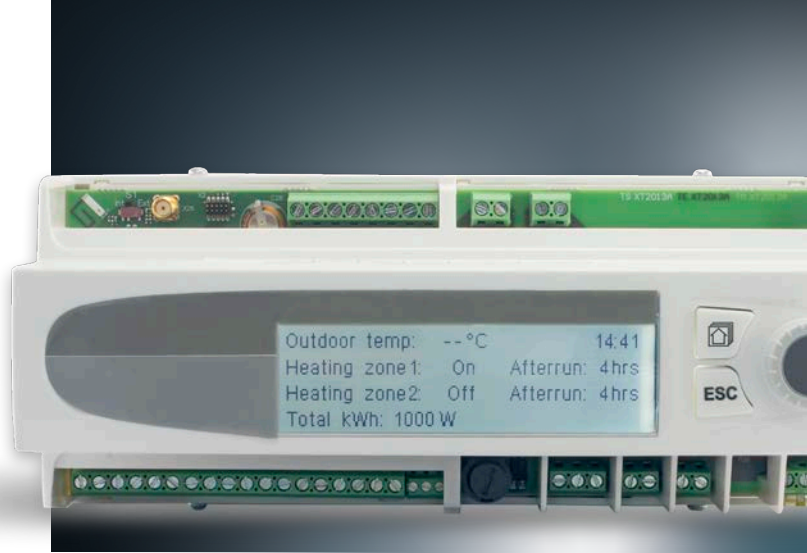Withstands temperatures up to 270°C, and may be covered with hot asphalt without using aggregate, e.g.

**MULTIREG ICECONTROL PRO**
Snow melting controller.
Two outputs controls two independent zones
Developed to melt snow and ice on walkways, steps and other outdoor areas, as well as on roofs and in roof gutters.

## TECHNICAL DATA

| | |
|---|---|
| Rated voltage | 230VAC |
| Power consumption | Max 10VA |
| Contacts | 2 potential free outputs |
| Relay | 1 x 10A - for direct load |
| Size | 213 x 93 x 100mm |
| Building height: | 100mm Check the height in switchboard, and if necessary, adjust DIN-rail |
| DIN-rail | 13 modules |
| IP Code | IP20 |
| Approvals | CE |

## FEATURES
- Snow melting regulator
- Controls electrial heating
- Two outputs controlling two independent zones
- Ground sensor
- Roof/gutter sensor
- External air sensor
- Precipitation sensor
- Input for external override
- Output for external notification in the event of a malfunction
- MODBUS 485

# MULTIREG
# ICE CONTROL PRO

The Multireg IceControl Pro is a snow melting regulator for up to two heating zones. It is designed to melt snow and ice on the ground, on stairs, on roofs and in gutters. Multireg IceControl Pro is compatible with several types of ground- and air sensors. The regulator can be used for electrical heating systems.

When using snow melting automation, you can keep outdoor areas dry and ice-free throughout the winter. This contributes both to increased safety against accidents as well as saving you the effort of shoveling, sanding and salting. Ground sensors mounted in places where snow and ice problems normally occur gives you effective and energy-saving control of the heating cables. The sensors may be installed in concrete or asphalt, laid beneath pavers and tiles or in a roof gutter.

A snow melting system should always include a thermostat, in order to regulate the system according to the current conditions. Multireg IceControl Pro has sensors that measure temperature and precipitation, which makes it a perfect choice for controlling outdoor heating. It includes options for external overrides and calibrations for most conditions, giving it excellent performance even on larger systems. With the favorable price and a user-friendly menu, it is also well suited for simpler installations.

| ART. NO. | PRODUCT |
|---|---|
| 54 301 77 | Multireg IceControl Pro - snow melting regulator |
| 54 301 71 | IceControl ground sensor pocket |
| 54 301 72 | IceControl transformer 9V |
| 54 301 73 | IceControl wall bracket for rain and snow sensors |
| 54 301 74 | IceControl roof/gutter sensor TF TS2 |
| 54 301 75 | IceControl ground sensor TF GS 15m cold lead |
| 54 301 79 | IceControl ground sensor TF GS 25m cold lead |
| 54 301 76 | IceControl air sensor TF AIS |
| 54 301 78 | IceControl precipitation/ rain- and snow sensor |

The Multireg IceControl Pro must always be installed with an outdoor air sensor in addition to a ground sensor or a roof/gutter sensor.

## ICECONTROL GROUND SENSOR POCKET

Keeps the ground sensor straight and steady during installation. Easy to mount, and the pocket makes it possible to replace the sensor without stripping away the surface.

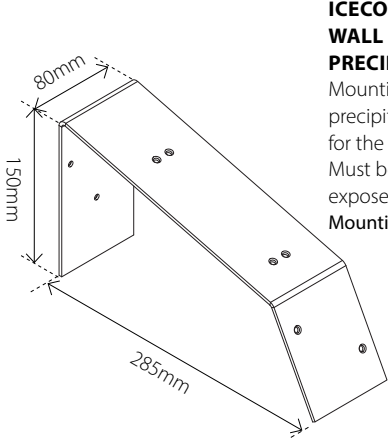| | |
|---|---|
| Placement | Outdoor areas |
| Internal diameter | Ø 55mm |
| Cross unit width | 151mm |

54 301 71

## ICECONTROL TRANSFORMER 9V

Required for connecting sensors in zone 2 of the Multireg IceControl Pro.

54 301 72

## ICECONTROL WALL BRACKET AIR SENSOR/ PRECIPITATION SENSOR

Mounting bracket for the IceControl precipitation sensor. Additional space for the IceControl air sensor TF AIS. Must be placed where the sensor is exposed to rain and/or snow

| | |
|---|---|
| Mounting | Outdoors |

54 301 73 - Wall bracket only

80mm
150mm
285mm

54 301 74

54 301 75
54 301 79

54 301 76

54 301 78

## ICECONTROL ROOF/GUTTER SENSOR TF TS2

Mounted in the roof gutter, the sensor detects moisture. The information is sent to the Multireg IceControl Pro snow melting thermostat, which activates the heating cables if there is a danger of ice buildup. This sensor must be used in combination with an outdoor temperature sensor. NB! Must be connected to Zone 2 powered from the external transformer.

| | |
|---|---|
| Placement | Roof, gutters and drains |
| Ambient temp. | -20℃ - 70℃ |
| Size (HxWxD) | 12.8 x 165 x 21mm |
| Fan size (W) | 107mm |
| Lead | 4 meters |
| Voltage | 9V |
| IP Code | IP68 |

## ICECONTROL GROUND SENSOR TF GS

Detects moisture and temperature. The ground sensor is placed within the area to be heated, somewhere where it is exposed to precipitation. It measures both temperature and humidity at the site and sends the information to the Multireg IceControl Pro snow melting thermostat.

| | |
|---|---|
| Placement | Outdoor areas |
| Ambient temp. | -20℃ - 70℃ |
| Size (HxØ) | 35 x 55mm |
| Lead | 15m + 25m |
| IP Code | IP68 |

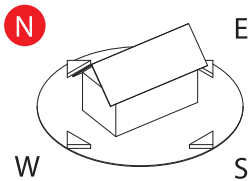The product must be cleaned at least every autumn.

## ICECONTROL OUTDOOR AIR SENSOR TF AIS

Outdoor sensor for exact temperature measuring.
NTC 10 kΩ @ 25℃

| | |
|---|---|
| Cable lead-through | M16 x 1.5 |
| Temperature area | -50℃ - 50℃ |
| IP Code | IP54 |

Mount the sensor on the north side of the building

N E W S

## ICECONTROL PRECIPITATION/ RAIN-AND SNOW SENSOR

Device for detecting precipitation as either rain or snow. A connectible heating function prevents the formation of ice or dew and helps the device to dry faster. NB! Must be connected to Zone 2 powered from the external transformer.

| | |
|---|---|
| Placement | Outdoor areas |
| Voltage | 9 VDC / VAC + 10% |
| Size (LxWxH) | 75 x 69 x 44 mm |
| Cable inlet | M16 x 1.5 |
| IP Code | IP65 |

# MULTIREG DIN+

Multireg DIN± is a thermostat specifically designed to control heating cables in gutters, steps, walkways, driveways etc. where ice buildup may occur. The thermostat may also be used for frost protection of water pipes.

### FUNCTION 1: DIN± THERMOSTAT

Ice buildup happens within a certain temperature interval, and by using outdoor heating cables, this ice formation may be counteracted. Multireg DIN± is designed to control the heat supply only within the critical area, in order for defrosting to be achieved using a minimum of power. The critical temperature range varies from one installation to another, hence the thermostat is equipped with a start and stop temperature setting. The thermostat is placed indoors, e.g. in a fuse box, while the sensor is placed outside, e.g. on a wall. After a few adjustments, the thermostat is set to a temperature interval where no ice or icicles are formed, and the installation runs itself with minimal energy consumption.

### FUNCTION 2: POWER REGULATOR

By connecting terminals 1 and 2 (REG) using a jumper wire, the Multireg DIN± will act as a power regulator. This function works well for frost protecting water pipes. Set the desired temperature for when the system should switch on. Customize the output as needed.

## TECHNICAL DATA

| | |
|---|---|
| Rated voltage | 230VAC  50/60Hz |
| Max. load | 3600W/16A (resistive load) |
| Width | 2 modules – DIN-rail |
| Power consumption | ~0,5W |
| Power regulator | Time cycle 0 - 30 min |
| Ambient temperature | -30℃ to 60℃ |
| Temperature range | -30℃ to 10℃ |
| Hysteresis | ±0.5℃ |
| Sensor values | 10℃ 18.6kΩ |
| | 15℃ 15.1kΩ |
| | 20℃ 12.2kΩ |
| | 25℃ 10.0kΩ |
| Included in package | Floor sensor Art. no. 54 301 07 |
| | Plastic cover for wall |
| Size | 89 x 32 x 62mm |
| IP Code | IP20 |
| Approvals | CE |

## FEATURES

- Roof gutter thermostat
- External outdoor sensor
- Power regulation 0 - 100%

C E

### ICECONTROL OUTDOOR AIR SENSOR TF AIS

Outdoor sensor for exact temperature measuring.
NTC 10kΩ @ 25℃

| | |
|---|---|
| Cable lead-through | M16 x 1.5 |
| Temperature area | -50℃ - 50℃ |
| IP Code | IP54 |

| ART. NO. | PRODUCT |
|---|---|
| 54 301 66 | Multireg DIN± thermostat  3600W  16A |
| 54 301 76 | IceControl air sensor TF AIS |

54 301 76

# HOW TO PREVENT DAMAGING YOUR FLOORS

**Most people will regard their home as their most significant investment, and naturally want to secure it as best as possible against damage of various kinds. It is therefore imperative to follow all existing guidelines and safety regulations when the home is to be built or upgraded. Always use an authorized installer.**

**Underfloor heating in different types of floors**

- Consideration must be given to what the floor is to be covered with when choosing a heating product. Always research in advance which type of floor is most suitable to your needs, so that your electrical installer can help you select the right heating product.
- Only use products intended for underfloor heating. If you choose a parquet, you must be extra careful to check that the parquet can withstand underfloor heating. Some types of flooring are not recommended in combination with underfloor heating.
- In cases where the heating cables are installed in a poured construction, this compound must be fully hardened before the heating cables are turned on.
- The heat must then be gradually increased, giving the materials time to adapt.

**Using the thermostat**

- All underfloor heating systems must be connected to an electronic thermostat, allowing the heat to be regulated.
- The thermostat must always be operated in accordance with the supplier's instructions.
- Read the thermostat installation guide carefully in order to choose the setting that best suits your needs.

**Covering**

- In all rooms with underfloor heating, you must avoid placing heat-insulating objects on the floor, as this can lead to overheating and damage to the heating product and the covering. This applies, for example, to carpets with a rubberized underside, beanbags and furniture where the underside rests directly on the floor (without legs or kickboards with ventilation).
- In rooms with underfloor heating, smaller heat-insulating elements (e.g., packs of diapers or piles of clothes) must also not be stored directly on the floor.
- Fixtures and heat-emitting products must be placed in heat-free areas.

**Avoid damage**

- Avoid drilling, fixing bolts etc. in floor with heating cables. If you are going to do any of this, contact your electrician who can help you locate the heating cables.
- Avoid using a lot of water when cleaning the floor. Should you be unfortunate enough to spill, wipe up as quickly as possible. In the event of significant accidents and water leaks, the underfloor heating must be turned off immediately. Allow the floor to dry thoroughly before attempting to turn it back on.
- If the earth fault circuit breaker trips, contact your electrician.

**ThermoFloor** — smart heating solutions —

**heatit** CONTROLS