



PRODUCT CATALOGUE



FENIX

Only the sun does it better...



Fenix was founded in 1990 as one of the first private companies in the Czech Republic following the “Velvet” Revolution.

The first items produced were the successfully marketed ECOSUN electric radiant heating panels, however, as market demand increased these products were followed by ECOFLEX electric convectors, ECOFLOOR heating cables and mats and ECOFILM heating films.

The company also offers a wide range of supplementary products including heating system controls, cable kits and cable mats.

With the increase in demand the structure of the company developed – for the reason of retaining maximum flexibility a holding company structure was chosen, with individual and independent members.

The following companies were incorporated successively:

Fenix s.r.o. – plant producing electrical heating systems

Fenix Trading s.r.o. – trading company

Fenix Slovakia s.r.o. – production and trading company, representing FENIX in Slovakia

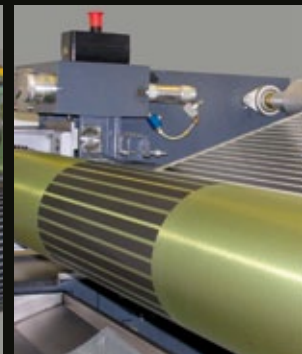
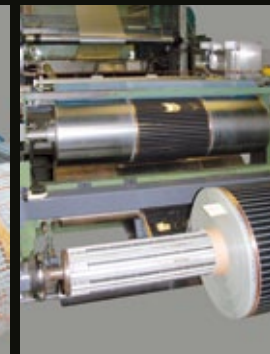
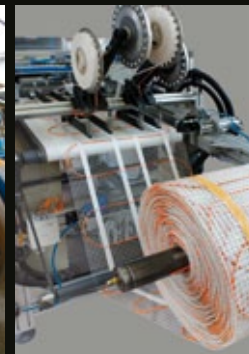
Fenix Group a.s. – a company which provides property management and services (strategic planning, administration of property, economic and financial services)

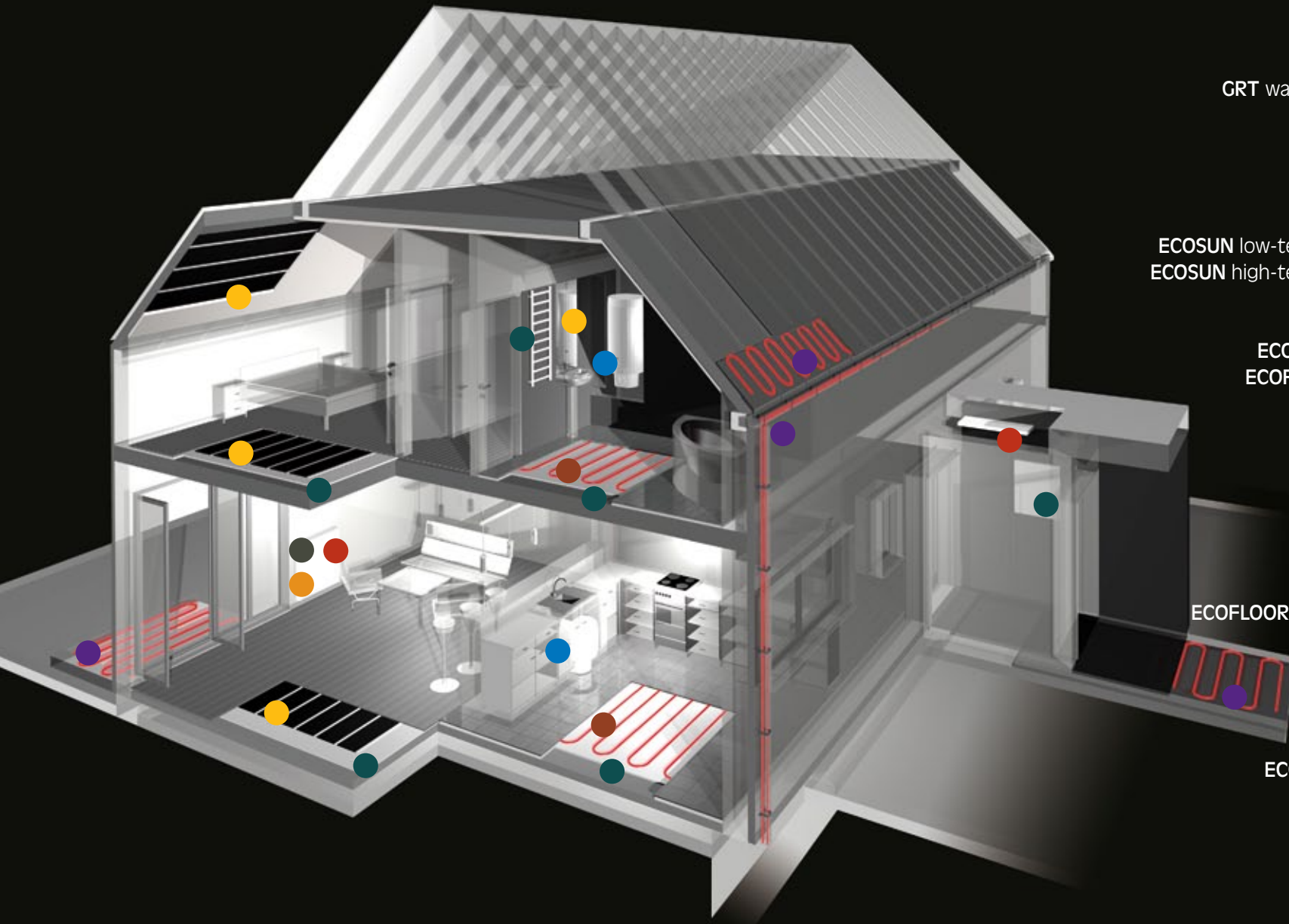
Flexel int. Ltd. – manufacturing and trading company located in the United Kingdom

In 2008 **FENIX Holding** – acquired the production and trading company

Aztec Europe Ltd. – manufacturer of special applications, such as mirror demisting heaters, vivarium heaters, caravan and mobile home heating equipment

Presently, the company Fenix Holding s.r.o. is one of the largest European producers of surface electric heating systems, and currently exports to 52 countries worldwide.





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GR panels

■ GR Glass radiant panels

GR panels are aesthetically unique products created by combining the efficiency of radiant heating with the natural beauty of glass. These high-quality products are designed mainly **for the heating of modern interiors** and areas in which emphasis is laid on high design purity and functionality.

GR panels utilise all the advantage of radiant heating, economic use of energy and limits convective air currents.





■ GRT wall mounted radiator panels

Wall-mounted **GRT panels** are derived from GR panels and are designed mainly **for bathrooms**, where they fulfil the function not only of a dedicated radiant heater but also a very attractive towel dryer.

GRT panels

MR panels





■ MR marble radiant panels

Wall-mounted radiant **MR panels** combine the **beauty of natural stone** with the unique properties of radiant heating.

These products are designed for aesthetically demanding interiors equipped either in a modern or classical style.



■ Ecosun low-temperature radiant panels

These panels are designed mainly for the heating of offices and shops. Their unique surface finish and even distribution of temperature ensures a **maximum transfer of** what is referred to as the **radiant energy component**. The best place for fitting these panels is on the ceiling or within a ceiling construction. The ideal installation is when they are integrated within a suspended ceiling.

ECOSUN radiant panels are available in the **U (universal) version** for placement either on or within ceiling constructions, however specialised products for various types of suspended ceilings are also offered in a wide range of colours.

Panels for special applications are available in various designs in the EEx version – **for mounting on walls, church benches as well as desks**, other applications include the provision of the radiant heat source in infra red saunas, or for use in industrial and agricultural applications.

- 
- 0100 - white
 - 0111 - grey
 - 0199 - black
 - 0220 - light brown
 - 0230 - medium brown
 - 0240 - dark brown
 - 0250 - palisander
 - 0320 - purple
 - 0440 - blue
 - 0510 - light green
 - 0530 - green
 - 0545 - khaki
 - 0565 - dark green
 - 0610 - cream
 - 0620 - yellow
 - 0660 - ochre
 - 0750 - orange
 - 0815 - red
 - 0840 - reddish brown



ecosun

A photograph of a large industrial or agricultural building interior. The ceiling is the focal point, featuring several long, rectangular, white radiant panels mounted on a metal truss structure. The panels are arranged in a grid pattern. The lighting is bright, and the overall atmosphere is clean and modern.

■ Ecosun high-temperature radiant panels

ECOSUN SB radiant panels are designed mainly for the heating of industrial, storage and agricultural buildings. However, they can be **used in any building with a ceiling height ranging from 3.5 m to 10 m**. The heating element is an aluminium heating element with a special Silicating electrochemical surface finish that increases the transfer of the radiant component. This patented technology ensures unique and unmatched emissivity values for a radiant surface which approach the emissivity of a black body.

■ Ecosun SB

These panels are available in one to two three element versions with **outputs ranging from 0.9 to 3.6 kW**. The surfaces are finished with a white highly resistant powder paint and given their slim-line appearance allows their installation even in areas which have high aesthetic requirements.



■ Ecofilm F

ECOFILM F heating elements are designed for radiant large area floor heating systems and are the ideal system for apartments and community buildings.

Their primary use is in the **installation of wood and laminate floors**, however they can also be installed under certain types of PVC floor coverings, or specific floor constructions with carpets.

To achieve the required room temperature of 21-22°C, the temperature of the heated floor will normally not exceed 26°C resulting in minimal air circulation or the formation of dust particles.

These systems are used extensively in **low energy houses** where installed wattages of 40-60 watts/m² are sufficient to provide the occupant with primary heat.



One of the many advantages of the ECOFILM heating system is its simple installation process which does not require the use of glues or bonding agents.

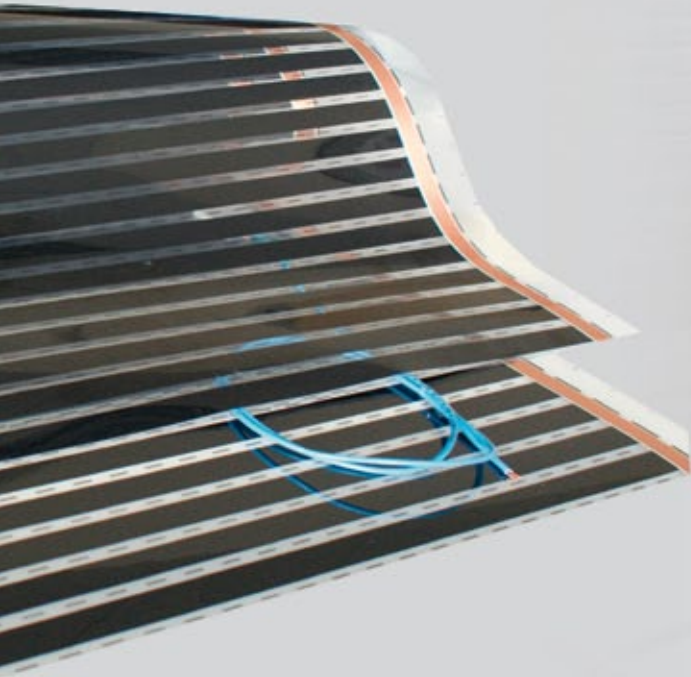
■ Ecofilm C

Another widespread use of heating films is their **installation within ceiling constructions**, particularly their installation behind plasterboard.

Using this type of installation, the radiant effect of the heating is achieved but in this case, the large-area heating emitter is the ceiling surface itself.

This option is very advantageous particularly in loft conversions, but it is also used widely in rooms which are equipped with heavy, robust furniture and thick carpets where the use of floor heating could be problematic.

The advantage of this application is, again, its ease of installation and the resultant freedom from wall mounted radiators.



ecofilm



■ Ecofilm MHF

The use of **Ecofilm heating films** is not limited only to radiant space heating. Products are also available which are suitable for **demisting of mirrors** in bathrooms (MHF) where the film, which is equipped with a self-adhesive layer, is simply attached to the rear side of the mirror and connected electrically to the lighting circuit.



The foil then provides perfect mirror demisting whilst being extremely economic to operate.

Similar products to those described above are also widely used for the heating of **terrariums, vivariums**, and the care of other animals and pets.



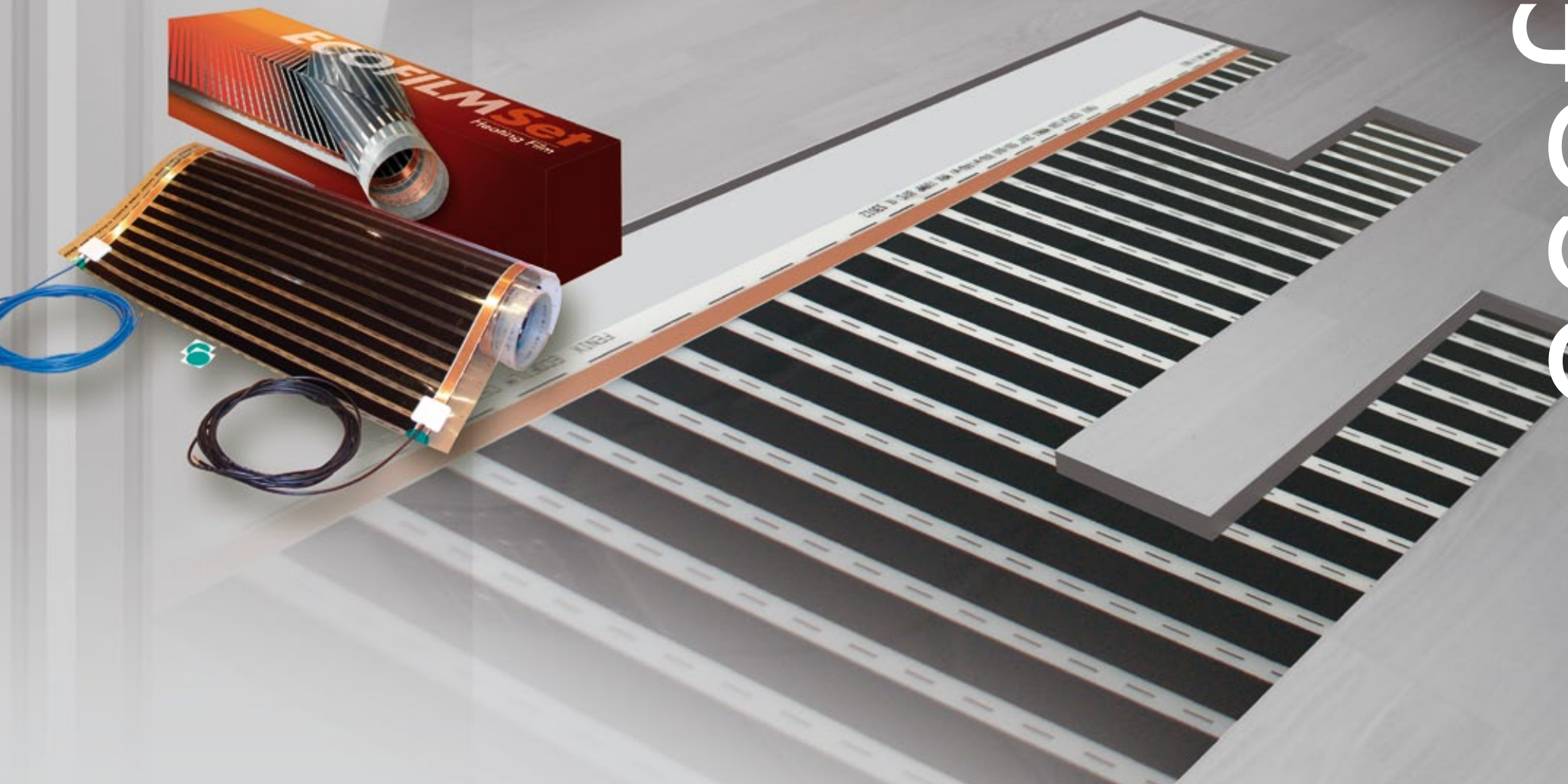


ecofilm

■ Ecofilm Set

With regard to the ever-increasing interest in ECOFILM element and their ease of installation in floating floors, ECOFILM sets provide the perfect solution.

These sets contain a pre-determined length of film **equipped with supply leads and ready for installation.** The length of the heating film can be if necessary be altered by the installer in accordance with the enclosed instructions.



■ Ecofloor - floor heating systems

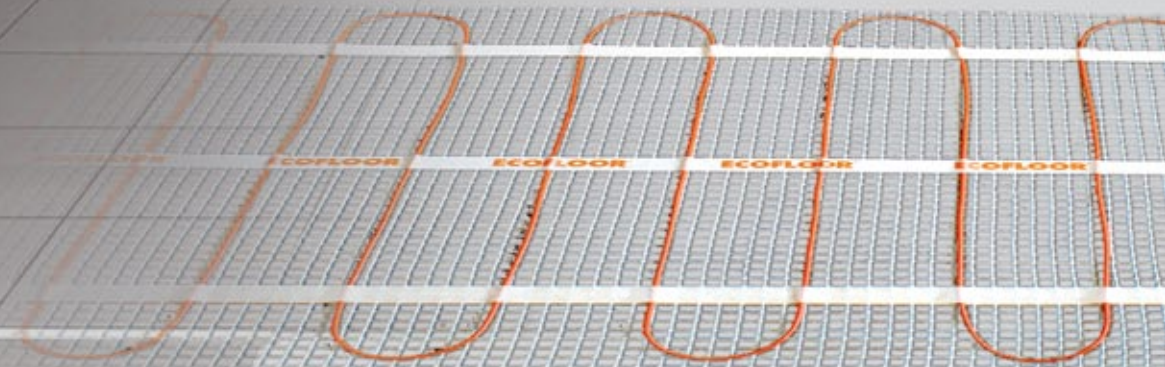
Heating cables and Ecofloor mats are widely used in practically all areas of **heating**, including **de-icing, industrial and agricultural heating**.

The uses of these heating products range from storage heating, through semi-storage and up to the more and more popular thin-layer systems which are installed directly under ceramic floor tiles. Due to their popularity it can be said that today nearly every newly-built bathroom features a floor comfort system.

Generally they are used more frequently during bathroom modernizations and renovations.

All the described options offer the client the choice of installing a large area radiant heating system with the benefits of economic running costs and maximum comfort.

As with our other radiant systems, ECOFLOOR cables and mats are also used for the heating of low energy houses.



Ecofloor sewn mats are normally installed in areas where its desired to heat areas which may be described as **non typical dimensioned floors**.

Taped mats without a base mesh (MST, MDT) are designed mainly for **outdoor applications** (ramps, pavements, driveways etc.) but they can also be used for storage or semi-storage heating in residential or non-residential environments.

Taped mats with fibreglass mesh are designed mainly for installation **under ceramic floor tiling**, however they can also be installed with a self-leveilling screed or in a semi storage heating constructions. The fibreglass mesh may be treated with adhesive for easier fixation of the mat to the base.

Ecofloor heating circuits are designed for all the types of applications which are described above.

The image displays various Ecofloor heating cable products. At the top left is a roll of a grey mesh mat with black heating cables. Below it is a roll of black heating cables held together by white tape. In the center is a roll of orange heating cables on a white mesh mat, also held by white tape. To the right is a red and orange box labeled 'ECO FLOOR Heating Cable' and a spool of orange heating cable. A small inset image at the bottom left shows a close-up of a heating cable on a mesh mat.

ecofloor



■ Ecofloor Comfort Mat

Comfort Mat kits have been developed specially **for ease of installation** and in addition to the heating mat with its thin two-conductor cable and full protective screen, also contains a thermostat for the control of the system and a flexible tube for the placement of the thermostats floor probe.

The detailed instructions describes step by step the installation procedure. The primary use of this kit is during the modernisation of existing bathrooms as well as their installation within new constructions.

■ Ecofloor Cable Kit

Cable Kits contain a two-conductor cable with a full protective screen, a helpful tool for determining the size of the loops of the cable, adhesive tape for its attachment and a thermostat for the control of the system. The set contains a detailed instruction manual in which the necessary steps and actions involved during the installation are described.



■ Ecofloor for outdoor applications

This application of heating cables and mats which is becoming increasingly common. The objective being to ensure **ramps, driveways, pavements or stairs** are maintenance-free and safe for use. The recommended, very sophisticated regulation system evaluates not only the outdoor temperature but also detects the presence of moisture (snow, ice). If both conditions aren't present (temperature as well as moisture), the system will not become operational.

With regard to the relatively large wattages used in outdoor applications, this form of regulation is strongly recommended and its use reduces considerably operational costs.





■ Ecofloor systems

are also used for the protection of pipes or pipelines **against frost**.

The use of heating to protect gutters and eaves troughs from freezing and the subsequent formation of ice is becoming more common.

This application not only protects the building from being damaged, but also increases safety and prevents injuries to pedestrians in urban locations.



ecofloor



■ Ecoflex G

A classic convector adapted to the highly aesthetic requirements of **modern interiors**.

The radiant **glass** surface enhances the overall appearance and makes this product not only an efficient heater but also provides a focal point within the room which will attract your attention.

These convectors are equipped with electronic regulation and a pilot wire which promotes a variable and programmable method of control.



■ Ecoflex electric convectors



Classic convectors

We offer a wide range of these heaters in various outputs and sizes, equipped with electronic and electromechanical regulation.



Actua

A first-class convector with an unusual French-style design.

CH200B-Turbo

A portable convector suitable for use as a supplementary heater can be a helpful appliance in every household.



Aixance

This product was created as a combination of a normal convector and a radiant heater and thus provides the advantages of both systems.

RF box

Wireless regulation unit for the perfect regulation and control of certain types of convectors.



ecoflex



■ Ecostatic

A static storage heater suitable mainly for buildings constructed of materials with low storage capability (wooden constructions etc.).

This heater can accumulate a quantity of energy and then for a period of up to six hours transfer it to the room either during its non charging period or at times where a higher tariff is applicable.



■ Ecodynamic

A more advanced version of storage heater which enables the controlled transfer of stored energy to the room over a period of up to 16 hours.

The intensity of energy transfer can be regulated via a built-in ventilator.



■ Electric water heaters

A wide choice of electric water heaters, ranging from small 10 l units designed for the efficient heating of water at distant delivery points up to central units with a volume of 200 l.





■ Hand dryers

An essential aid in the maintenance of hygiene mainly in public areas.

These products are available in two power ratings and include a robust metallic cased anti-vandal version .

■ Heated rails

An elegant and highly efficient accessory for modern bathrooms which serves not only in maintaining the required room temperature but also for drying bath and hand towels.

Versions with low outputs are also available.

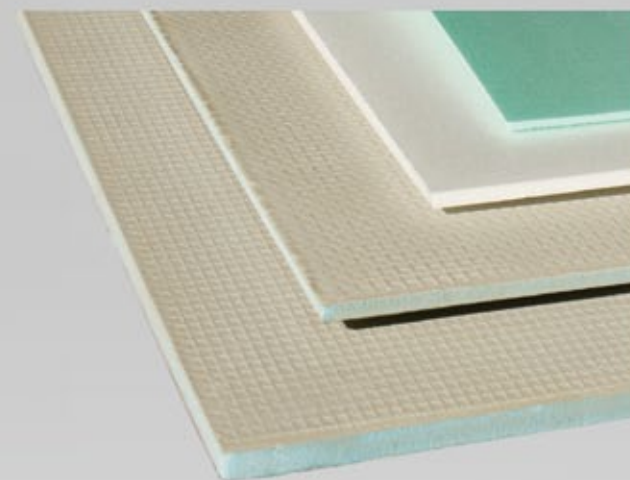


■ Regulation

Precise and inexpensive regulation is one of the many advantages of electric heating systems. Suitable control permits the flexible and easy adaptation of the heating regime either in individual rooms or to suit your individual requirements and thus save a significant amount of energy, a reduction in running costs, whilst maintaining a high level of user comfort.

■ Insulation

Our thermal and recommended insulation solutions have been tried and tested over the long term and are suitable for installation under floor heating in bathrooms as well as under floating floors.





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