



Heatingfilm[®]
Sun's warmth in your home



Economical investment solutions with infraheating

Great opportunity for
developers



WHO WE ARE?

01

In Hungary our company group is **market leading** on the field of infraheating, as we are dealing with the most modern heating technology



Our company operates on the market for over **10 years**



Trained over **1000 infraheating experts**



Based on our client responses there is a **100% satisfactory rate**



Over **4000 successful** installations



Recommended by the
Hungarian Electric Heating
Society





Economical heating system even with increasing raw material prices!

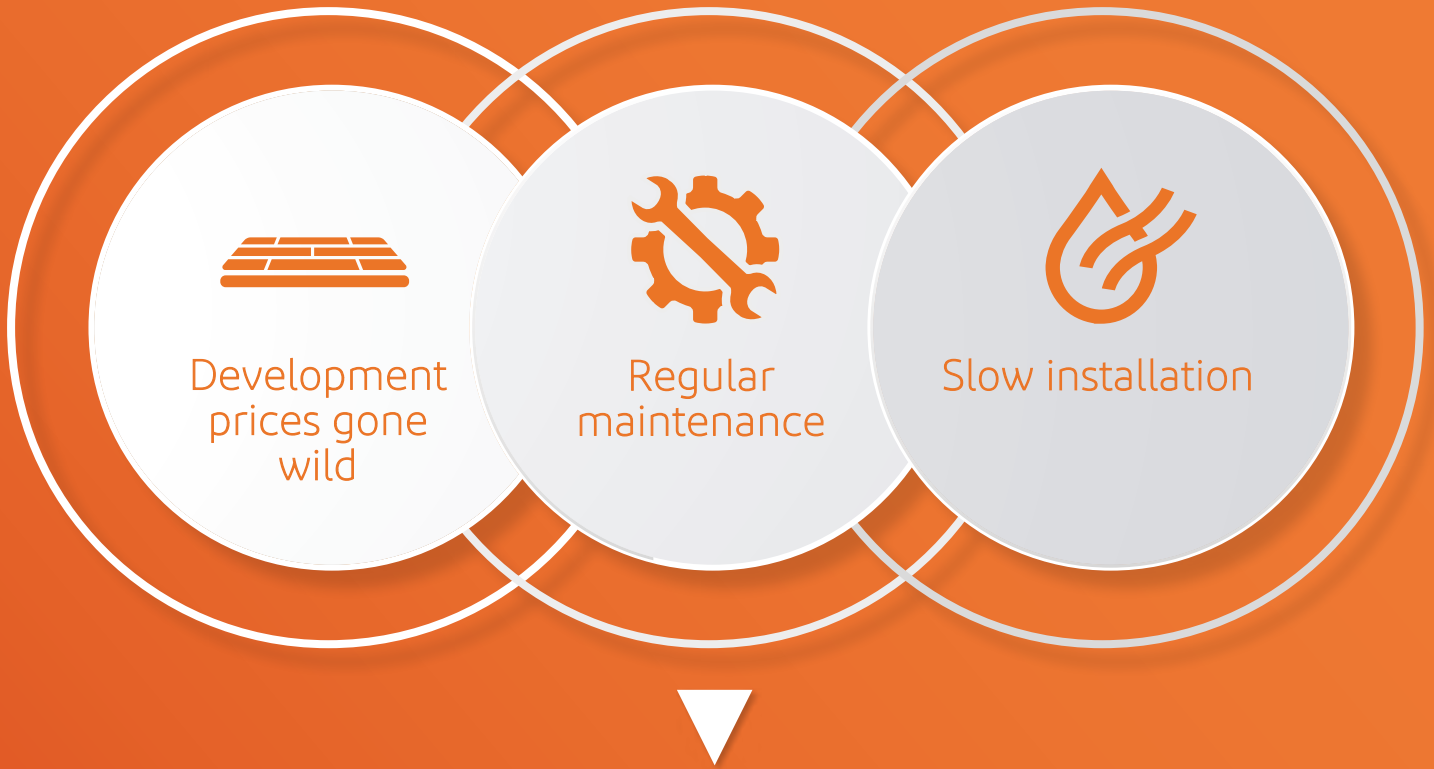
But how?

At developers most of the time on top of the wish list with a heating system is fast and easy installation procedure. In addition the following **needs** come up usually during development:

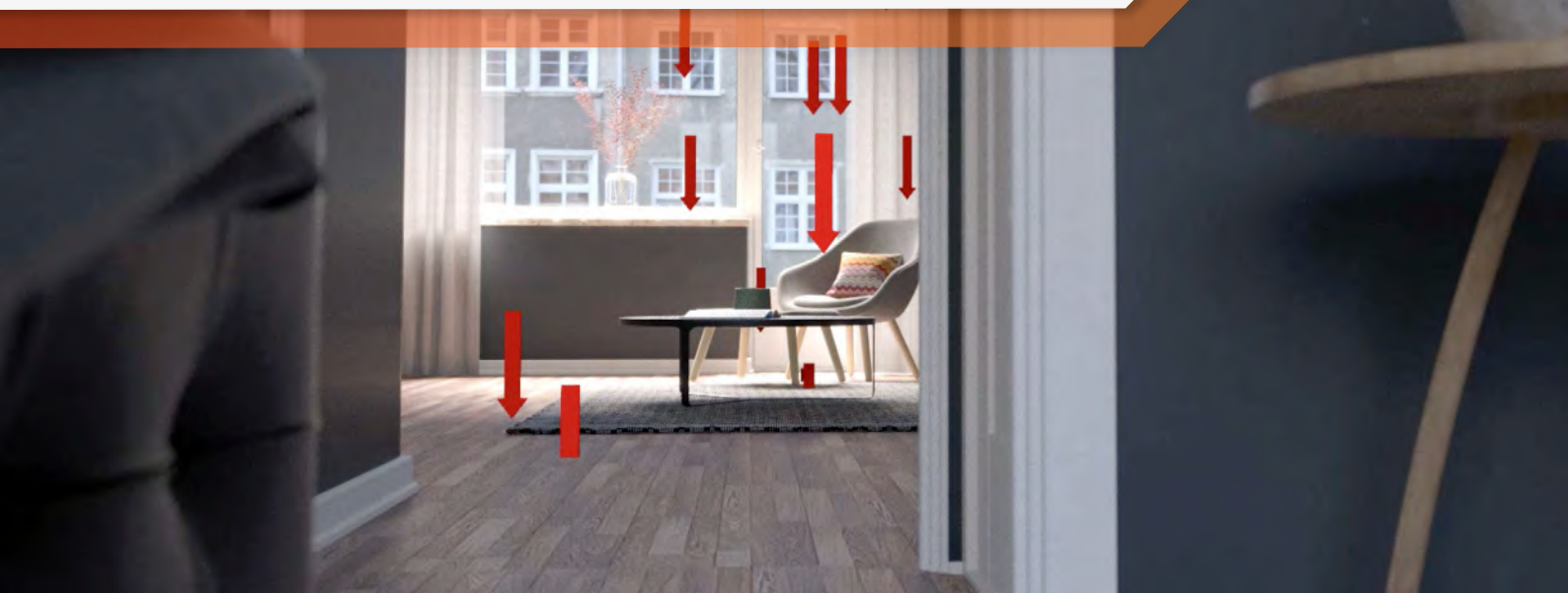
- low cost installation
- long lifetime
- low consumption
- fast and easy installation

What problems do we regularly encounter?

03



INSTALLING INFRAHEATING IS AN EXCELLENT SOLUTION TO ALL!



The most common objections before ordering from us?

04

1.

HEATING WITH ELECTRICITY IS EXPENSIVE!



„Regular electric heaters are in fact expensive to operate, on the other hand the heating film heats people and objects directly, therefore it can be a lot more effective and economic. The heating efficiency is about 20% better, and combined with solar panels the heating cost of 0 is attainable“.



2.

WHAT HAPPENS WHEN THE HEATING DAMAGED? DECONSTRUCT?



"There are no moving parts in the product, therefore it cannot malfunction. In case another worker damages it after our leave, it can be canged, fixed line by line, or just disconnect one line, the rest will function normally."

3.

IF ALTERNATIVE HEATING THEN HEAT PUMP. IT'S MORE ECONOMICAL!



"If nothing else is important other than the monthly expense, plus the initial investment and the maintenance cost can be disregarded, heat pump is a good solution. The heating film needs no room for machinery, and will deliver the same heating efficiency regardless of outside temperature."



The heating film works with electricity.



Heating film can be installed to

- floor
- ceiling
- wall

How does it work?

The heating film emanates **infra radiation** and thanks to the radiation of heat its warming people, furniture, walls, ceiling and the floor directly. Therefore it keeps the real estate warm and comfortable.



What versions the films have?

The infra heating's width is 50 cm and it's available with output levels between 25W/m² and 400 W/m². The output of the heating film is every time determined by the energy loss of the building. In order to achieve appropriate comfort, the appropriate output is to be selected.

Controlling options (thermostat, smart home)



Touh screen, programmable thermostat with manual or pre-programmed options available. We use it to control electric heating and the temperature of the floor and air.

- Some of the thermostats available at us can be connected with most smart home systems, therefore our heating can be controlled remotely or by voice commands.

*At some systems the voice control works, it depends on regions and languages. For more information get a hold of us in email- phone or in person.

LAYER ORDER

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There is space for 4-5 cm concrete or 2 cm rigidur.

**LAMINATED FLOORING**

laminated flooring
underlayment
concrete/rigidur (optional)
damp proofing foil
intelligent heating film
heat mirror
heat insulation
foundation/concrete

**CEILING HEATING**

slab
insulation
heat mirror
intelligent heating film
support structure
gips carton

**WOODEN FLOOR**

wooden floor
concrete/rigidur (optional)
damp proofing foil
intelligent heating film
heat mirror
heat insulation
foundation/concrete

**TILES/STONE**

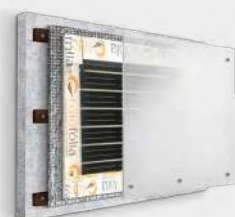
tiles/stone
flexible adhesive
concrete/rigidur
grounding grid
damp proofing foil
intelligent heating film
heat mirror
heat insulation
foundation/concrete

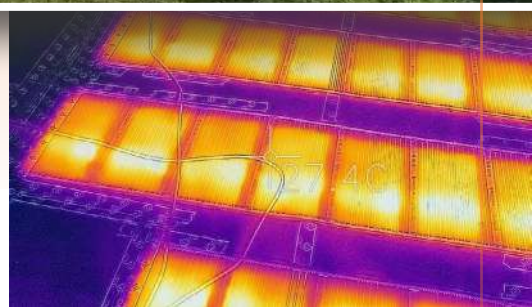
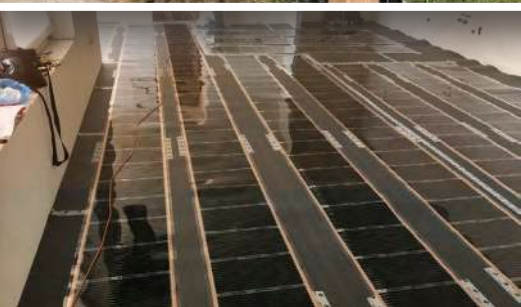
**CARPET/LINOLEUM**

carpet/linoleum
concrete/rigidur (optional)
damp proofing foil
intelligent heating film
heat mirror
heat insulation
foundation/concrete

**WALL HEATING**

gips carton
intelligent heating film
heat mirror
side wall





Energy consumption example at a newly built detached house:

To the house of 190 m² we have installed the heating film as floor heating in 2 working days. Already in the first heating season, when the consumption is usually higher at a newly built house drying, the heating energy consumption was the same as it was predicted for long term usage.

Parameters

Residential area:	190 m²
Installed output power:	14,5 kW
Energy loss:	40 W/m²
Predicted consumption/yr:	7 305 kWh
Controlling:	WiFi thermostat

* The energy consumption, output power are measured in Hungary. They vary between different countries/regions. For an individual calculation, contact us in email, on phone or in person.



Energy consumption example at an old detached house:

To the 75 m² house in 2 working days we have installed the heating film as floor heating. Already in the first heating season, when the consumption is usually higher at a renovated house drying, the heating energy consumption was the same as it was predicted for long term usage.

Parameters

Residential area:	75 m²
Installed output power:	4,8 kW
Energy loss:	80 W/m²
Predicted consumption/yr:	3 740 kWh
Controlling:	WiFi thermostat

* The energy consumption, output power are measured in Hungary. They vary between different countries/regions. For an individual calculation, contact us in email, on phone or in person.

During installation **we provide the following:**

Based on a preliminary survey, an actual inspection at the location.



Heating film: cut to size, install, connect, ground.



Cleaning up, ready the space to give it over for the next team.



10 years of guarantee.



Why to choose the heating film?

1. **Economical** heating system.
2. Minimal risk of malfunction, **10 years of guarantee.**
3. Combined with solar panels even **0 heating cost** is attainable.
4. **End result:** Warm and comfortable heating system!
5. **Maintenance-free.**

CONTACT US!

Cyprus office:

Evagora Palikaridi 6A/2 7080 Pyla
+357 9444 8776
heating@molnargroup.eu
www.molnargroup.eu/commerce.html

