

# UFH

## SCREED FLOOR HEATING SYSTEMS

VarioRast, VarioFix, VarioClip, VarioRoll and VarioSolid.



VIDEO

[www.variotherm.com](http://www.variotherm.com)

**VARIOTHERM**

Enjoy your life in cosy comfort and heat. With well-tempered floors all the year round. With it's unique profile pipe and full range of fixing systems Variotherm offers the most complete range of underfloor heating solutions.

## THE THREE. INGENIOUS. PROPERTIES.

### COSY WARMTH

Variotherm floor heating systems turn cold stone, tile, laminate or wood parquet floors into comfortably warm surfaces. They provide cosy heat for cold feet: in hallways, kitchens, bathrooms and sanitary rooms as well as indoor swimming pools, offices and living rooms.

1

### YOUR CHOICE

Wherever screed is used, the four systems, VarioRast, VarioFix, VarioClip or VarioRoll, provide the perfect solution for all building situations. Each of these complete systems meets the highest performance standards. The extremely robust VarioSolid sets new benchmarks for surfaces in industrial buildings.

2

### THE PERFECT COMBINATION

All Variotherm floor heating systems are highly efficient low temperature systems, which perfectly complement other energy saving technologies such as heat pumps, solar or biomass plants. This reduces heating costs and helps the environment.

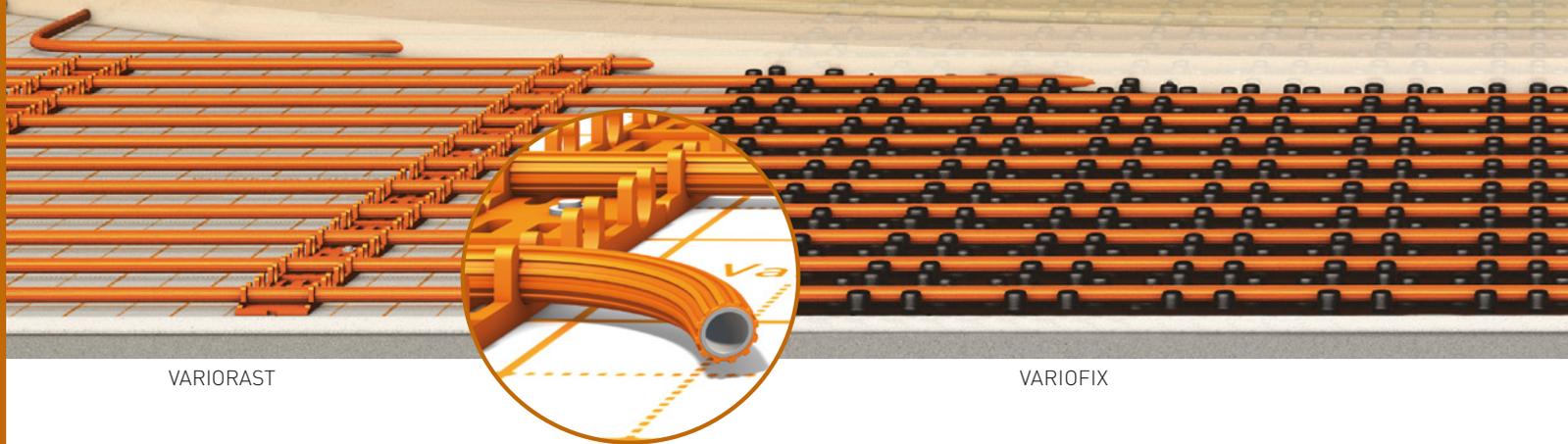
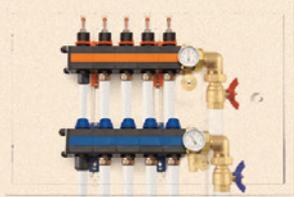
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SCREED FLOOR HEATING SYSTEMS

FOR. CLEVER. DESIGNERS.



VARIORAST

VARIOFIX

### FIVE COMPLETE SYSTEMS

For screed systems, Variotherm always has the right solution available with VarioRast, VarioFix, VarioClip and VarioRoll models. All systems are extremely easy to install. The answer to the question of efficient heating for industrial spaces is the VarioSolid industrial floor heating system.



VARIOROLL

### ONE BASIC PRINCIPLE

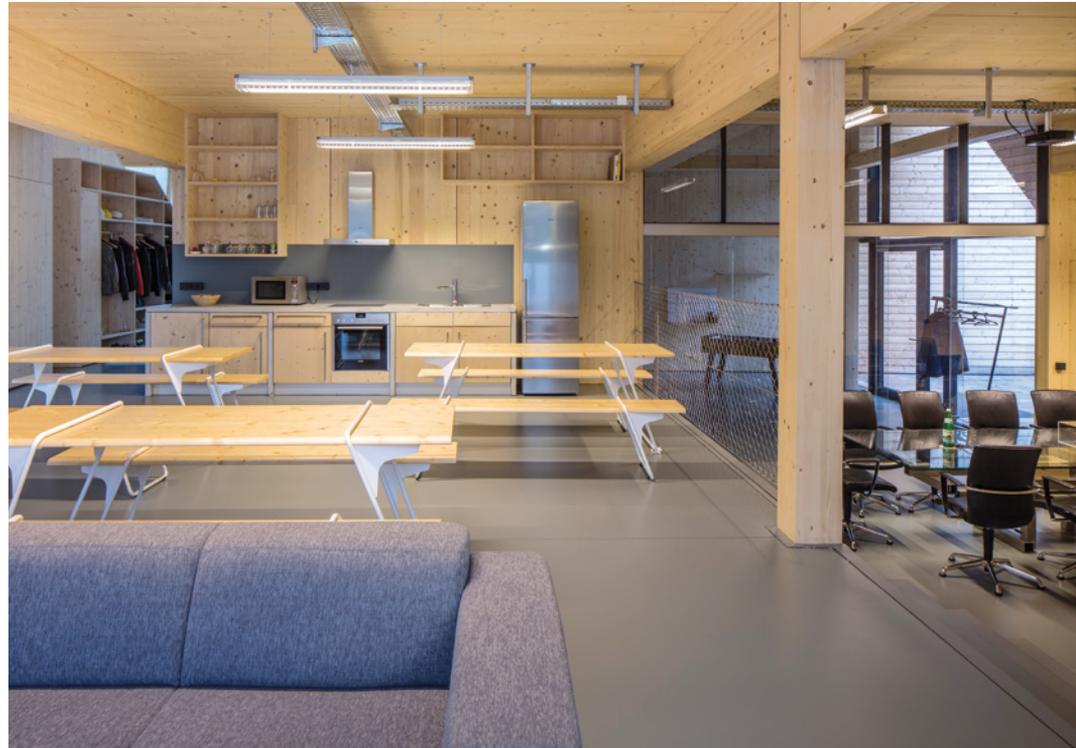
The Variotherm floor heating system is a sustainable choice. All five Variotherm screed systems have one common feature: awareness of a careful use of energy by getting the highest level of comfort with the least use of resource.

### INFINITE DESIGN POSSIBILITIES

Architects and interior designers love Variotherm floor heating systems. Completely invisible and fully flexible, they adapt perfectly to any room conditions. Thanks to these features they deserve their reputation as designer heating systems.



Perfect for modern contemporary living.



Call it what you will: Generous. Modern. Open. Cool. Variotherm floor heating systems are the first choice when it comes to stylish architecture.



Variotherm floor heating systems are perfectly suited to all types of floor finish.





VarioProfile pipe 16 x 2 Laser with **profiled surface** for optimal heat transfer

The VarioRoll thermal and impact sound insulation enables an impact improvement of up to 28 db. The insulation is available in thickness of 20 and 30 mm.



With the VarioClip the VarioProfilePipe is easily installed on the grid bars. This works superfast and guarantees an optimum distance between the pipes.

Self-adhesive edge insulation strips with a fold for perfect installation in screed.



The room thermostats guarantee simple, fast regulation of the room temperature.



EVERYTHING. YOU NEED.

All Variotherm heating/cooling manifolds are fully assembled and pressure tested.



# TECHNICAL PROPERTIES. FACTS. ADVANTAGES.



## PROFESSIONAL. INSTALLATION.

All the Variotherm floor heating systems have been developed by specialists with their practical application in mind. They are therefore flexible and can be laid quickly. Each step and action to be taken has been thought through down to the smallest detail. This saves time and money on installation.

## HEAT. TRANSFER. OPTIMISED.

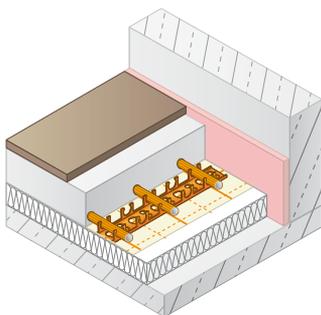
The multi-layer aluminium composite pipes, with their profiled structure, have a surface which is up to 15% larger than comparable pipes, which contributes to optimised heat transfer.

## PIPE. STABILITY.

The interior laser-welded aluminium pipe has an extremely stable form yet remains easy to bend. This provides you with the maximum in precision while laying the pipes during installation.

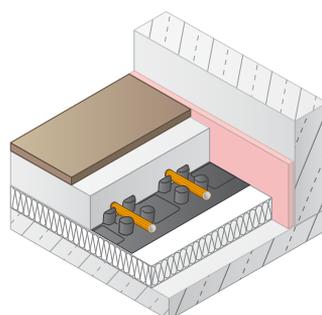


## THE 5 SYSTEMS



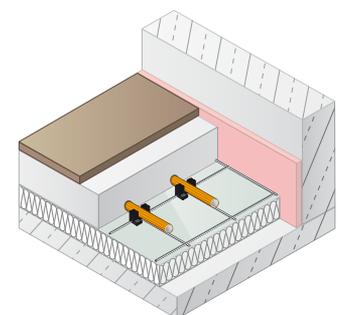
### VarioRast

- Grid foil with 50 mm grid size
- VarioBar with self-adhesive strip on the back
- Fixing needle for VarioBar
- VarioProFile pipe 16 x 2 mm Laser



### VarioFix

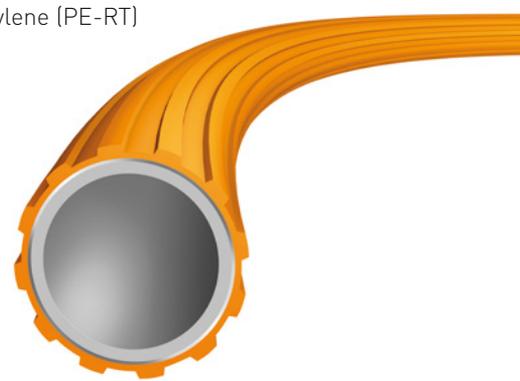
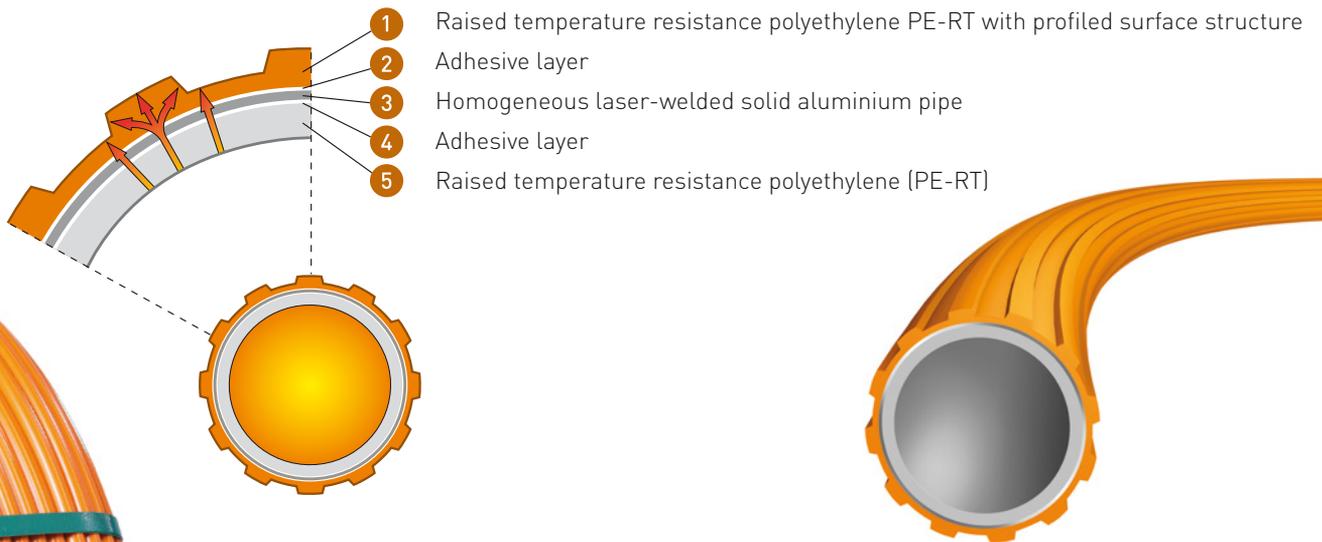
- VarioFix panel, 1400 x 800 mm (without insulation). For fastening the VarioProFile pipe and as a separating layer. Especially for concrete subsurfaces
- VarioProFile pipe 16 x 2 mm Laser



### VarioClip

- Construction steel grid
- VarioClips for fixing the pipes
- VarioProFile pipe 16 x 2 mm Laser

## VARIOPROFILE PIPE 16 x 2 Laser

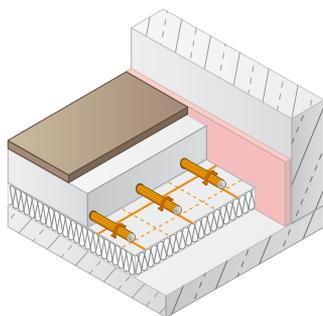


### PROFILED SURFACE

- Optimised heat transfer through up to 15% larger surface
- Unique innovation

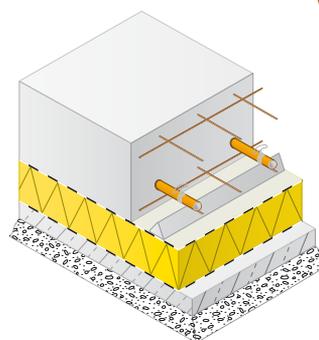
### ADVANTAGES

- 10 year guarantee with certificate
- Lower linear coefficient of expansion
- Flexible, easy to bend, extremely good hydrostatic stability
- 100% oxygen diffusion-tight
- Tested as per EN 21003 (IMA Dresden)
- Fully corrosion-free
- Mirror-smooth inner surface - less pressure loss - no encrustation



### VarioRoll

- VarioRoll made of special impact sound polystyrene (20 or 30 mm) with laminated foil. Optimum retaining power for the stapler pins
- Stapler pins for affixing the pipes
- VarioProFile pipe 16 x 2 mm Laser



### VARIOMODULAR PIPE 20 x 2 LASER



### VarioSolid (Industrial UFH)

- Concrete panel and reinforcing bar grid (provided by the customer)
- Fastening with binding wire
- VarioModule pipe 20 x 2 mm Laser
- Spacer, separating layer and prepared thermal insulation (provided by the customer)

# SIMPLY. QUICKLY. INSTALLED.

## PREPARATORY WORK

1

Depending on the installation situation, either vapour barriers or vapour retarders must be installed in the floor structure. Self-adhesive Variotherm edge insulation strips are applied along the walls, as well as pillars, steps, door frames, etc. The respective model is laid on the prepared subsurface.

VARIOCLIP

VARIORAST

VARIOROLL



## LAYING THE PIPE

2

Depending on the model and construction requirements, the VarioProFile pipe can be precisely laid in different ways, while maintaining its form: clips, VarioBars, stapler pins, panels with grooves ... Thought has been given to every possible subsurface and every attachment method. All working steps have been tried and tested in practice and can be carried out by a single installer.

## FINAL INSTALLATION

3

After the pipes have been laid, the system is connected to the distribution manifold. Now the floor heating system is filled, flushed, deaerated and pressure checked. Then, the screed can be applied.

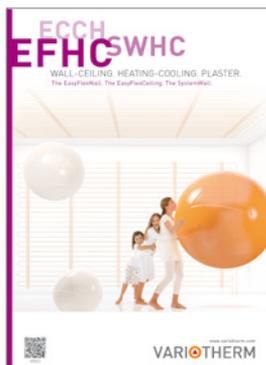




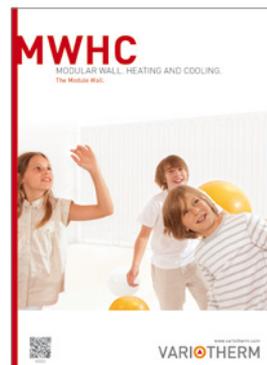
# STRONG. ARGUMENTS. GUARANTEED.

- 5 individual complete systems from one source
- Energy saving low temperature systems
- Ideal for combination with heat pumps, solar and biomass systems
- Optimised heat transfer due to profile surface
- The surface of the VarioProFile pipe 16 x 2 Laser is 15% larger than that of comparable pipes
- Even floor temperature due to accurate laying systems
- Fast and simple installation
- 10 year guarantee

## ALSO AVAILABLE FROM VARIO THERM



WALL-CEILING.  
HEATING-COOLING.  
PLASTER.



MODULAR WALL.  
HEATING AND COOLING.



MODULAR.  
CEILING COOLING.  
CEILING HEATING.



MODULAR.  
FLOOR HEATING.  
20 mm.

YOUR VARIO THERM PARTNER



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