

UFH

SCREED FLOOR HEATING SYSTEMS

VarioRast, VarioFix, VarioClip, VarioRoll, VarioNap and VarioSolid.



VIDEO

www.variotherm.com

VARIOTHERM

Enjoy your life in cosy comfort and heat. With well-tempered floors all the year round. With its unique profile pipe and full range of fixing systems Variotherm offers the most complete range of underfloor heating solutions - tested and approved for comfort and energy saving.

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 a cosy warmth: in living areas, hallways, kitchens, bathrooms and offices.

1

YOUR CHOICE

Wherever screed is used, the five systems, VarioRast, VarioFix, VarioClip, VarioRoll or VarioNap, 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

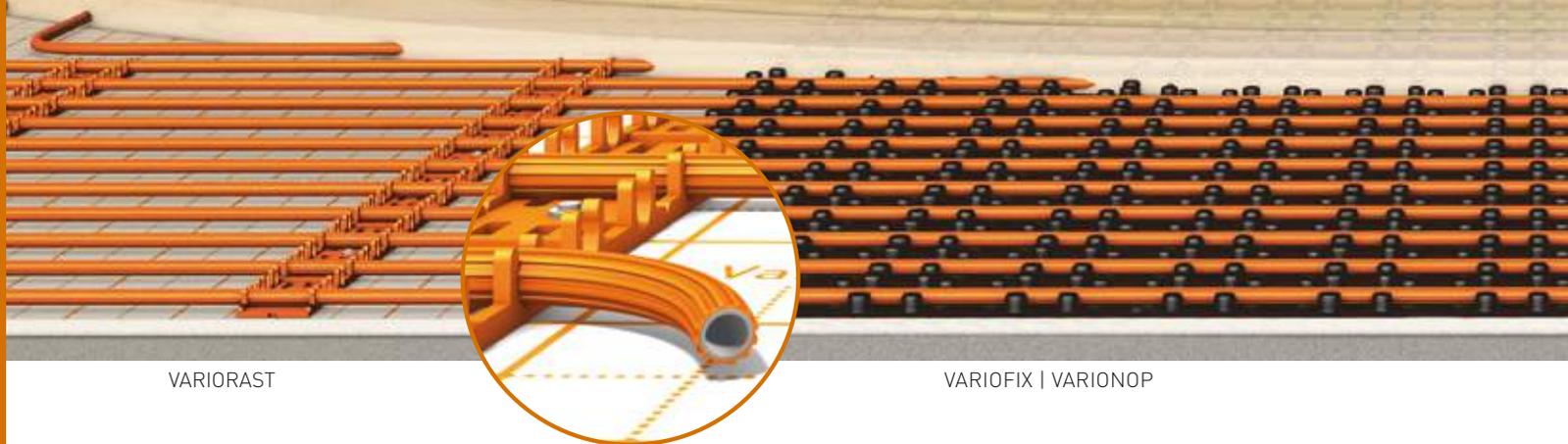
All Variotherm floor heating systems are highly efficient low temperature systems, which perfectly complement other energy saving technologies such as heat pumps, solar or biomass plants. This reduces heating costs and helps the environment.

3





FOR. CLEVER. DESIGNERS.



VARIORAST

VARIOFIX | VARIONOP

COMPLETE SYSTEMS

For screed systems, Variotherm always has the right solution available with VarioRast, VarioFix, VarioClip, VarioRoll and VarioNap 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

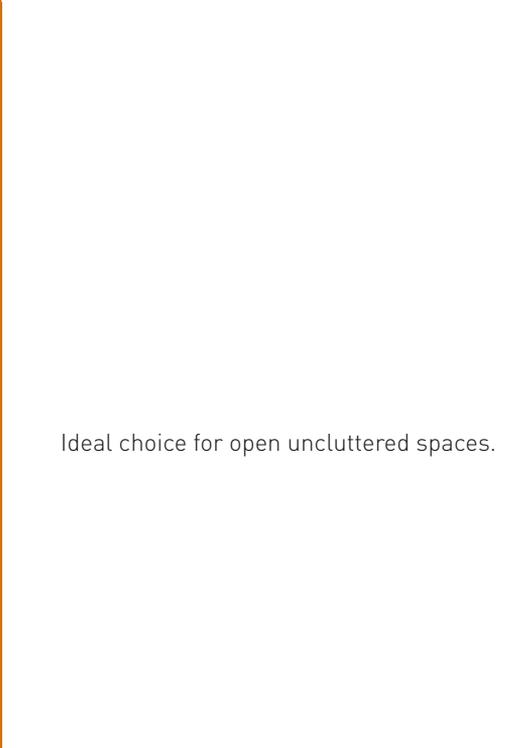
All six Variotherm screed systems have one common feature: awareness of a careful use of energy by getting the highest level of comfort with the least use of resource.

INFINITE DESIGN POSSIBILITIES

Variotherm's floor heating systems allow designers complete freedom in room layout, secure in the knowledge that the system is not only invisible but will also provide a cosy room environment.



Perfect for modern contemporary living.



Ideal choice for open uncluttered spaces.



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.



The Variotherm nap panels are pipe brackets,
separating layers and thermal insulation
(VarioNap) all in one. They are simply
connected using a snap fastening system.
They are also available without thermal
insulation as VarioFix.

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



Room thermostats from the PIANO series
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.

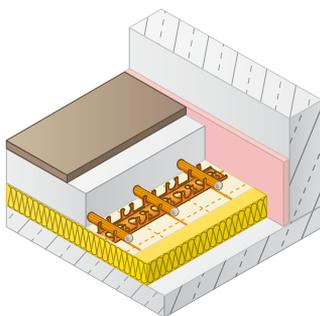
The multi-layer aluminium composite pipes, with their profiled structure, have a surface which is up to 15% larger than comparable pipes, which contributes to optimised heat transfer.

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.

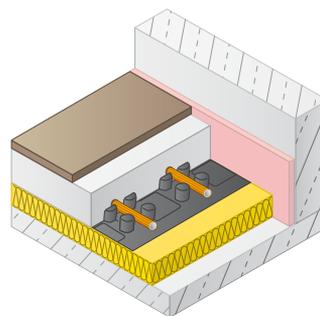


THE 6 SYSTEMS



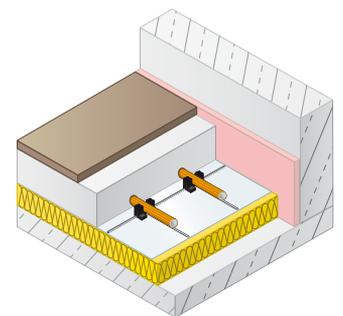
VarioRast

- 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

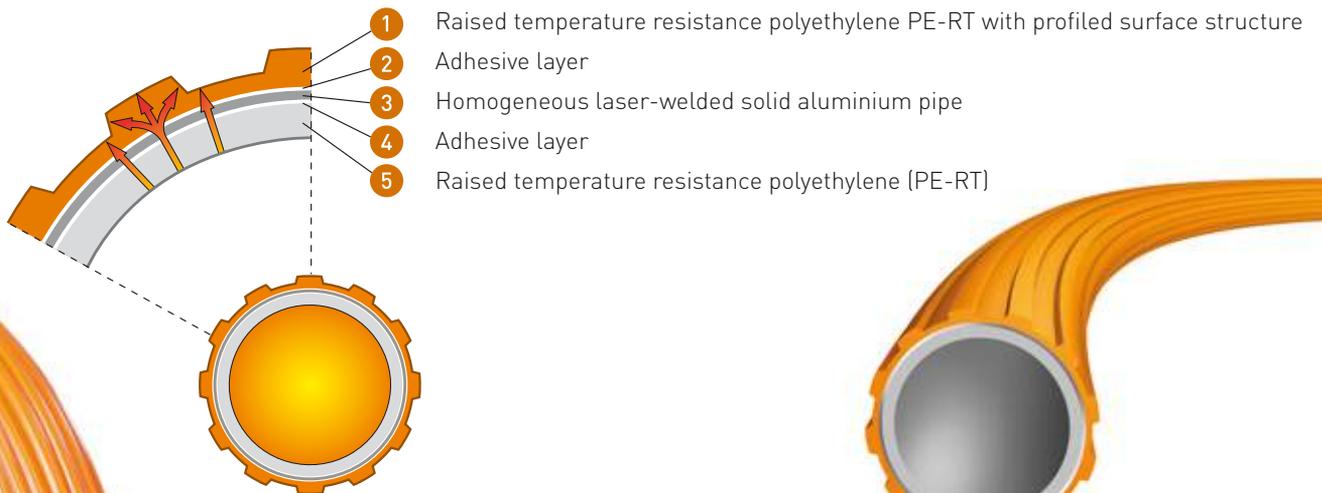
- VarioFix panel, 1400 x 800 mm (without insulation). For fastening the VarioProFile pipe and as a separating layer. Especially for concrete subsurfaces
- VarioProFile pipe 16 x 2 mm Laser



VarioClip

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

VARIOPROFILE PIPE 16 x 2 Laser



- 1 Raised temperature resistance polyethylene PE-RT with profiled surface structure
- 2 Adhesive layer
- 3 Homogeneous laser-welded solid aluminium pipe
- 4 Adhesive layer
- 5 Raised temperature resistance polyethylene (PE-RT)

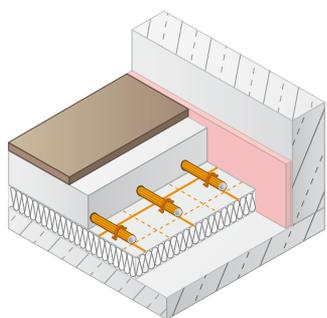
PROFILED SURFACE

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

ADVANTAGES

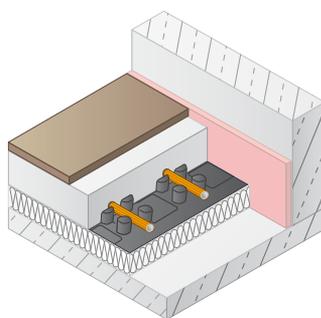
- 10 year guarantee with certificate
- High pressure and temperature resistance (10 bars, +95° C)
- Flexible, easy to bend, extremely good hydrostatic stability
- 100% oxygen diffusion-tight

VARIOMODULAR PIPE 20 x 2 LASER



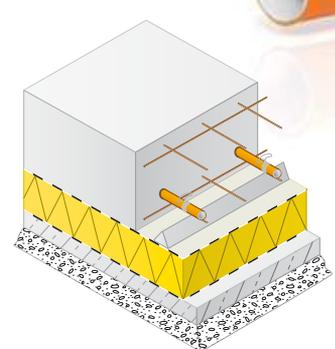
VarioRoll

- 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



VarioNop

- Nop panel 1400 x 800 mm (insulation thickness 11 or 30 mm). Interim bridges raise up the VarioProFile pipe, so that the heating screed encloses the pipe completely.
- VarioProFile pipe 16 x 2 mm 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.

VARIOFIX/NOP

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.





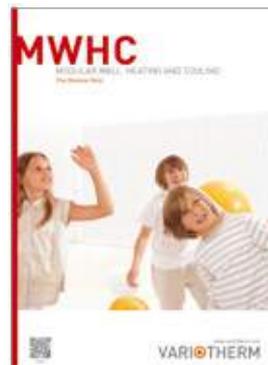
STRONG. ARGUMENTS. GUARANTEED.

- 6 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



PLASTERED WALL.
HEATING AND COOLING.



MODULAR WALL.
HEATING AND COOLING.



MODULAR.
CEILING COOLING.
CEILING HEATING.



MODULAR.
FLOOR HEATING.
20 mm.



VARIO THERM HEIZSYSTEME GMBH

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