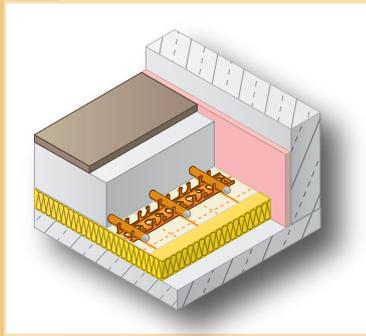


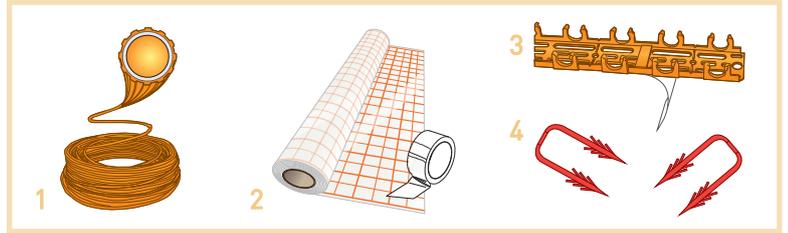
# Floor heating for screed floors (1)

Systems



## VarioRast

This system is used where thermal insulation and/or impact sound insulation is provided by the customer.

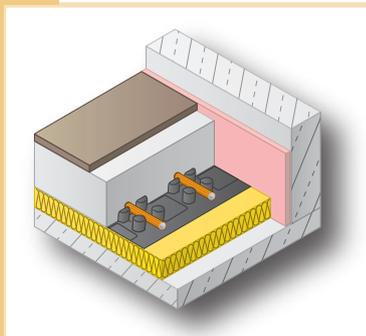


[1] VarioProFile pipe 16x2/Alu0,25 (multi-layer composite pipe).

[2] The grid foil (separating layer) is made from 100% polyethylene recycling granulate with a 50 mm graticule and 0.2 mm thickness. One roll contains 50 m<sup>2</sup> of foil. Adhesive tape is used to bond the foil joints. (Roll: length x width = 66 m x 50 mm).

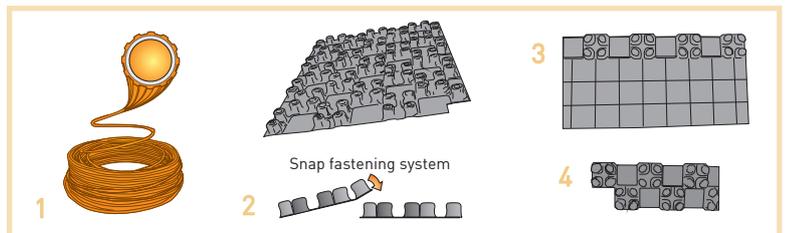
[3] The VarioBar has a hole pattern with holes spaced 50 mm from each other and a self-adhesive strip on the back. It can be easily divided by hand every 100 mm. It raises the VarioProFile pipe from the grid foil allowing the heating screed to completely enclose the pipe. Length: 1 m

[4] Furthermore, the VarioBar is also fixed to the thermal insulation with fixing needles. Hence, the VarioBar cannot move out of position.



## VarioFix

This system is used where thermal insulation and/or impact sound insulation is provided by the customer.



[1] VarioProFile pipe 16x2/Alu0,25 (multi-layer composite pipe).

[2] VarioFix panel:

- Pipe bracket and separating layer
- Dimension of the panel 1025 x 1025 mm (Useable surface 1000 x 1000 mm)
- Pipes spaces at 50 mm
- Bridges raise the VarioProFile pipe from the panel
- Form-fitting connection as first row of naps overlaps
- Panel thickness incl. naps 18 mm
- Surface sufficiently stable to walk on

The levelling element [3] is used in the door area, the connecting element [4] to connect residual pieces.

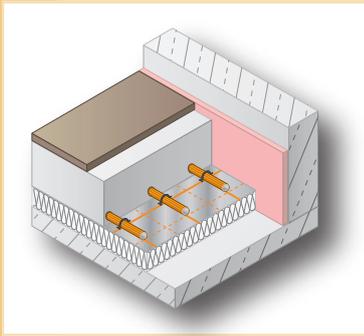
Dimensions of the levelling element: 995 x 200 mm

Dimensions of the connecting element: 955 x 105 mm

**VARIOTHERM**  
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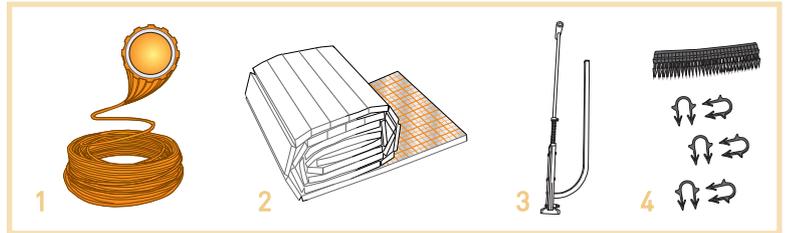
# Floor heating for screed floors (2)

Systems



## VarioRoll

The system allows swift and easy laying of pipes on thermal insulation and impact sound insulation.

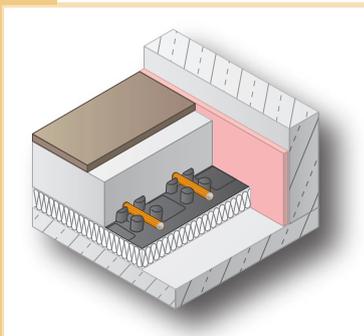


[1] VarioProFile pipe 16x2/Alu0,25 (multi-layer composite pipe).

[2] VarioRoll thermal insulation and impact sound insulation:

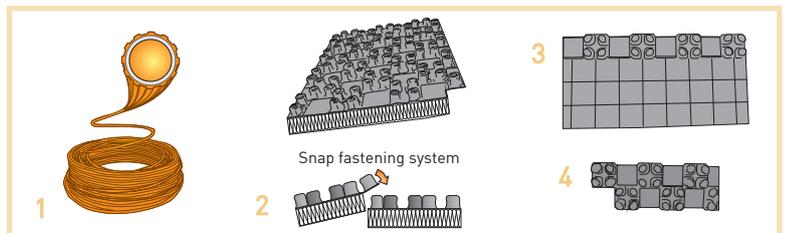
- Made from monitored impact sound polystyrene 32/30 mm
- Declared thermal conduct  $\lambda = 0,035 \text{ W/mK}$
- Sound impact improvement value 32 dB
- Compressive load (including screed)  $6,5 \text{ kN/m}^2$
- Special laminated aluminium foil with 50 mm grid as separating layer
- Optimal retaining power for stapler pins via the incorporated weave
- Swift and easy installation
- One-sided 30 mm overlap with self-adhesive strips results in an overall area without joints

The VarioProFile pipe is fixed with stapler pins [4] to the VarioRoll thermal insulation using a stapler [3].



## VarioNop

The system allows swift and easy laying of pipes between the naps on thermal insulation and impact sound insulation.



[1] VarioProFile pipe 16x2/Alu0,25 (multi-layer composite pipe).

[2] VarioNop panel:

- Pipe bracket, thermal insulation and separating layer
- Dimension of the panel 1025 x 1025 mm (Useable surface 1000 x 1000 mm)
- Min. pipe spacing 50 mm
- Bridges raise the VarioProFile pipe from the panel
- Form-fitting connection as first row of naps overlaps
- Panel thickness including naps 52 mm
- Insulation thickness 35/32 mm
- Declared thermal conduct  $\lambda = 0,040 \text{ W/mK}$
- Sound impact improvement value 28 dB
- Compressive load (including screed)  $5 \text{ kN/m}^2$

The levelling element [3] is used in the door area, the connecting element [4] to connect residual pieces.

Dimensions of the levelling element: 995 x 200 mm

Dimensions of the connecting element: 955 x 105 mm

**VARIOTHERM**  
HEATING. COOLING. COMFORT.