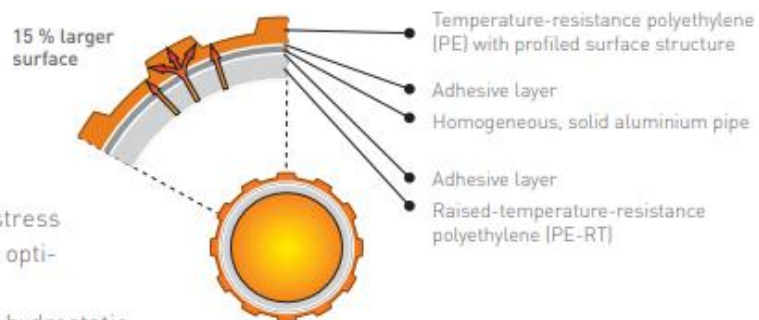


2.5 VarioProFile pipe 16x2 plus*

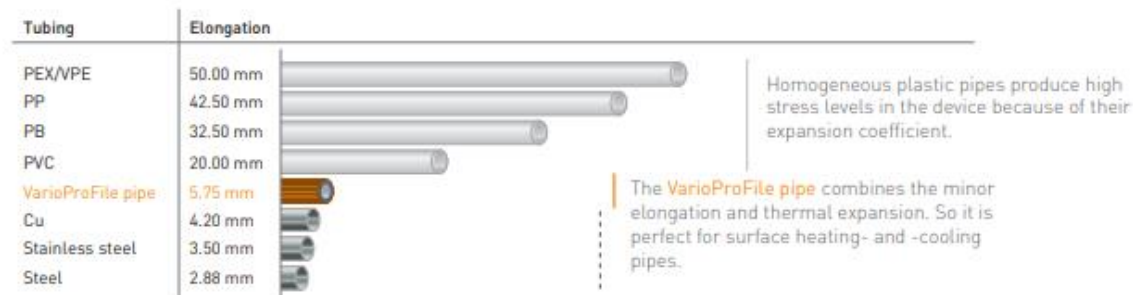
Advantages

- Fully corrosion-free
- As light as a plastic pipe
- 10-year guarantee with certificate
- Optimum behaviour under long-term stress
- Profiled surface structure guarantees optimum heat transfer
- Flexible, easy to bend, extremely good hydrostatic stability
- Resistant to hot water additives (inhibitors, antifreeze)
- Mirror-smooth inner surface – less pressure loss – no encrustation
- High pressure and temperature resistance
- 100 % oxygen diffusion-tight
- Lower linear coefficient of expansion, lower heat expansion forces
- Tested as per EN ISO 21003



Elongation

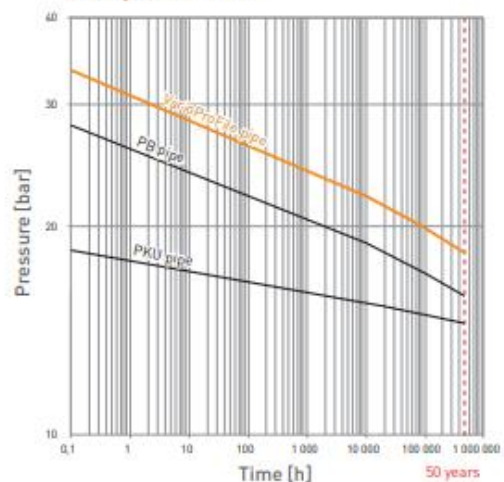
with 10 m and temperature difference Δt 25 °C [e.g. 20 °C to 45 °C]:



Technical data

Pipe diameter:	16 mm
Pipe wall thickness:	2 mm
Aluminium pipe thickness:	0.15 mm
Roll length:	100/300/500 m
Water content:	0.113 l/m
Special narrow bending radius (use a suitable bending device):	48 mm
Max. operating temperature:	$t_{max} = 70$ °C
Short-term resistant:	$t_{mat} = 95$ °C
Max. operating pressure:	$p_{max} = 10$ bar
Linear expansion coefficient:	2.6×10^{-5} [K ⁻¹]
Mean heat conduction coefficient:	$\lambda = 0.43$ W/mK
Heat transmission resistance:	$R_{\lambda} = 0.0043$ m ² K/W

Creep behaviour



5 PIPING

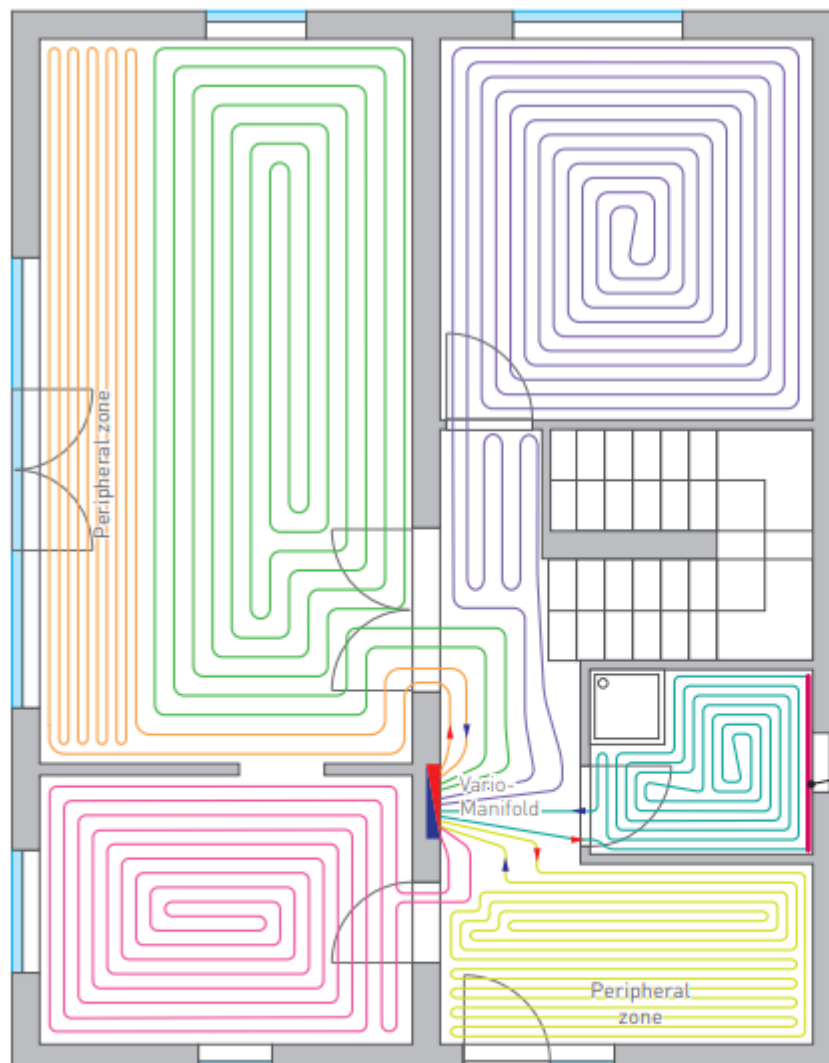
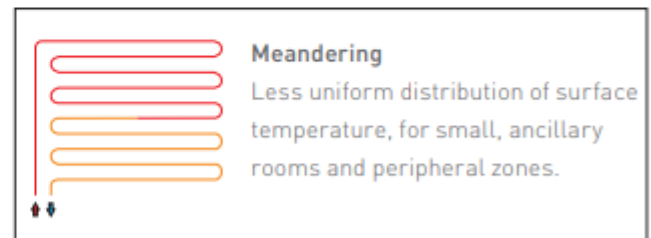
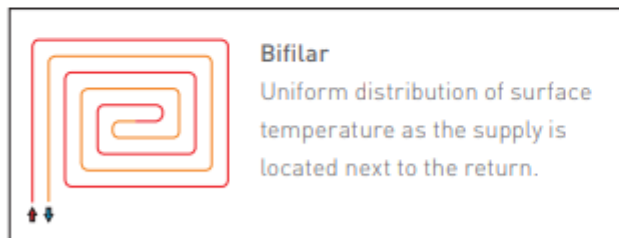
The required thermal output of the individual room determines the spacing between the pipes. In living spaces, the pipes are spaced at 100, 150 and 200 mm distance to create a pleasant room atmosphere. In other rooms (halls, laboratories, etc.) pipes are laid in distances of up to 300 mm.

Pipe spacing	Pipe requirement
100 mm	10.0 m/m ²
150 mm	6.7 m/m ²
200 mm	5.0 m/m ²
250 mm	4.0 m/m ²
300 mm	3.3 m/m ²

Maximum pipe length per heating circuit including supply pipe: 120 m

Distance to walls: 50 mm

Distance to chimneys, fireplaces, open or walled shafts: 200 mm



Details regarding the system and heating circuit pipes and the room temperature control are provided in the DISTRIBUTION and CONTROL planning and installation manual.

Wall heating for residual load in bath

Peripheral zone: Starting in front of a large glass surface or glass doors, a meander pattern layout goes along the glass surface, reaching into the room by about 1 metre. This will lead to a higher surface temperature in front of the glass surfaces (Variotherm comfort tip).

▲ Laying example of a single-family house