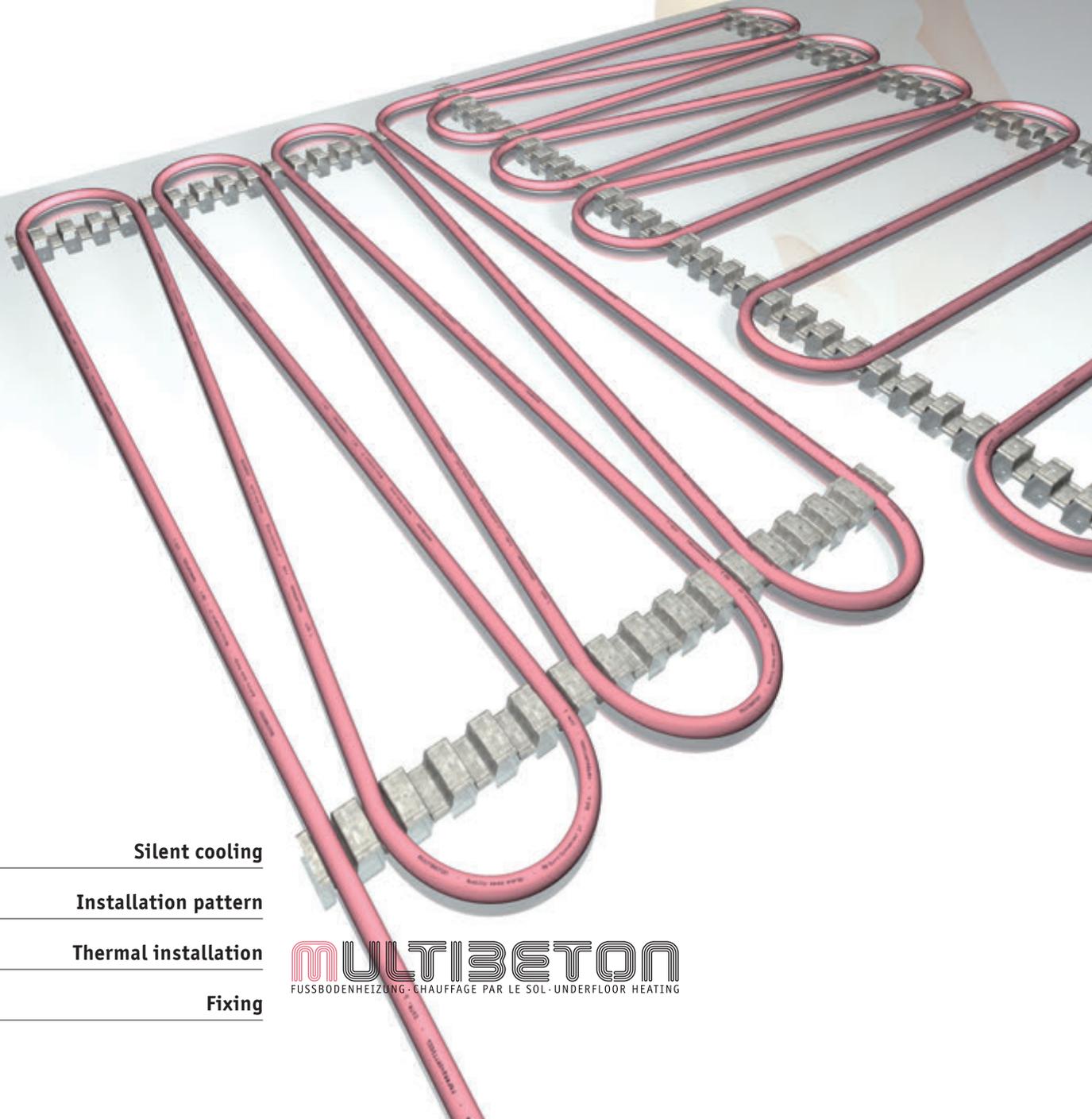


The Technology

MULTIBETON

Surface Heating
and Cooling

Quality saves Energy.



Silent cooling

Installation pattern

Thermal installation

Fixing

MULTIBETON
FUSSBODENHEIZUNG · CHAUFFAGE PAR LE SOL · UNDERFLOOR HEATING

Silent cooling

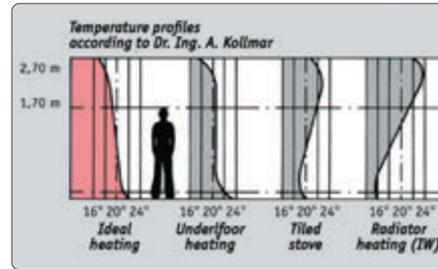
The MULTIBETON underfloor heating system with the special MULTIBETON installation process is also excellent as a system for "silent cooling" through the floor. This system is low priced, as it only requires adding a reciprocator chiller with control unit or reversible heat pump. Like the tried and tested MULTIBETON underfloor heating, MULTIBETON underfloor cooling has the highest output, in this case cooling capacity, around windows and exterior walls, thus counteracting the greatest incidence of heat.

The technology

"MULTIBETON surface heating and surface cooling"

Installation pattern

The MULTIBETON modulation process is a concept which determines installing the MULTIBETON system pipes on floors and walls. Simply put, more pipes are always installed where there is a greater incidence of cold. This is e.g. near windows and exterior walls. The middle of the room and interior walls require less system pipes. This ensures rooms are not overheated, the floor stays comfortable and lukewarm. In practice, this gives you a virtually consistent room temperature which is regulated according to the Kollmar diagram.



People perceive this room climate as very comfortable and it is also beneficial to the health. Condensation, thus mold on walls and ceilings is often caused by a misconception to regulate and save energy. With the MULTIBETON underfloor heating, this can be ruled out under normal operating conditions, as the underfloor heating provides cosy, consistent comfort and the control unit is therefore less likely to be set incorrectly.

Thermal installation

MULTIBETON system pipes are only installed in a warm and water-bearing state. This ensures strainless and twist-free installation. This gentle procedure maximises the life of the MB-Systemrohre (System pipes) immensely. Thermal installation enables installation using the MULTIBETON modulation process, as cold heating pipes are much too rigid to install them thermodynamically reasonable. This process is only used by MULTIBETON.

Fixing

MB-Stahl-Clipsschienen (Steel clip rails) were developed to fix MULTIBETON system pipes to the floor. It further reinforces the screed, expands similar to the screed, and fixes the system pipes gently.

MULTIBETON modulation process

