

# MCCH

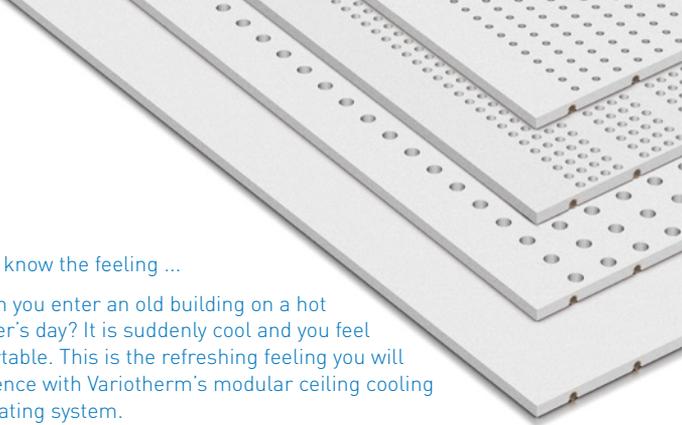
MODULAR CEILING COOLING. MODULAR CEILING HEATING.  
The ModuleCeiling. The ModuleCeiling-Acoustic.



VIDEO

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

**VARIOTHERM**



Do you know the feeling ...

... when you enter an old building on a hot summer's day? It is suddenly cool and you feel comfortable. This is the refreshing feeling you will experience with Variotherm's modular ceiling cooling and heating system.

## THE THREE. INGENIOUS. PROPERTIES.

### THE COOLING CEILING

The Variotherm Modular Ceiling Cooling offers a degree of comfort that you will never want to do without once you have experienced it. In modern architecture including areas with large glass surfaces, ceiling cooling is highly desirable. Here, stylish design is combined with a pleasant temperature.

1

### THE HEATING CEILING

Used correctly, the CeilingHeating is a "cool" thing. As an alternative to wall or floor heating, Modular Ceiling Heating can contribute in an energy efficient way to creating the optimum room temperature.

2

### THE SILENT CEILING

The Variotherm Modular Ceilings combine heating and cooling in one. They are completely silent when in operation. No noisy air conditioning. No more cold draughts on your neck. ModulePanels can as an option be installed with a noise absorbing acoustic surface. It effectively reduces noise and sound and creates a comfortable room and working environment.

3





MODULAR CEILING COOLING | MODULAR CEILING HEATING

## COMFORTABLY COOL

Variotherm Module Ceiling Cooling/Heating systems create cool and healthy room environments, without forced air. In addition our systems are more energy efficient than traditional air conditioning. In offices, penthouse flats, homes, schools, terminals and public buildings. Thanks to four different system versions, all your architectural design ideas can be put into practice. Pretty cool and timeless!



## COMFORTABLY WARM

Thanks to the integrated cooling/heating, free ceiling areas are given a useful additional function. The ModuleCeiling constantly ensures that an optimally tempered climate is provided. The flexible panel system can be adapted to all circumstances and leaves nothing to be desired, even in penthouse flats.

## PLEASANTLY SILENT

All Variotherm ModuleCeilings are silent, energy efficient and environmentally sensitive. The sound absorbing acoustic surface, which is available as an option, prevents increased stress levels through noise, and in so doing contributes to improved performance and concentration levels at the workplace.



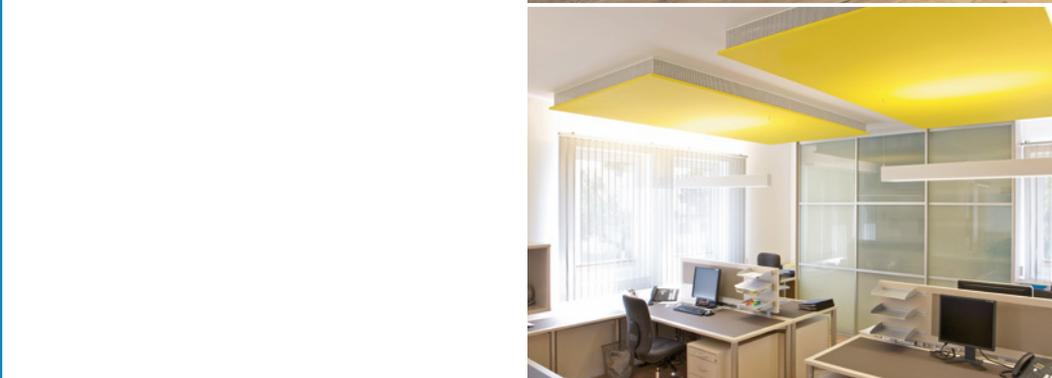
COOL. WARM. SILENT.



Large surface cooling and heating.  
Completely silent. Tested for fire resistance  
and certified for their biological properties.



Cool in summer. Warm in winter.  
Energy efficient and environmentally  
friendly throughout the year.

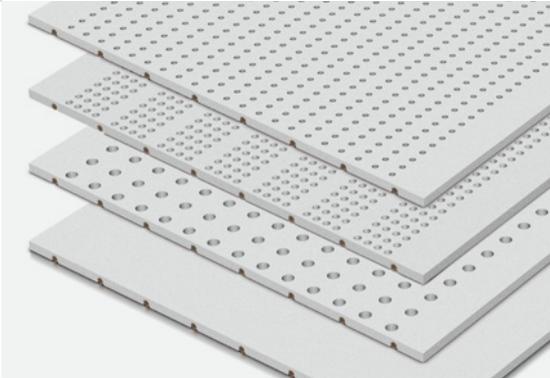


Flexible design options for  
all ceiling structures.

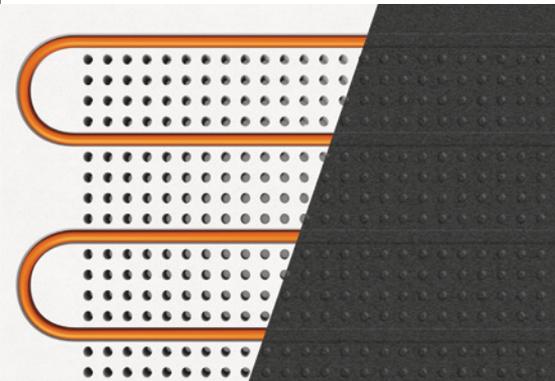




Ready to install.  
The VarioModule pipe is already integrated  
in the rear of the ModulePanel.



Noise insulation: The hole pattern is  
covered by a special acoustic fleece.



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



The pipe connections are 100% tight.  
Once pressed, they last a lifetime.



EVERYTHING. YOU NEED.

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



# TECHNICAL PROPERTIES. TYPES. SURFACES.

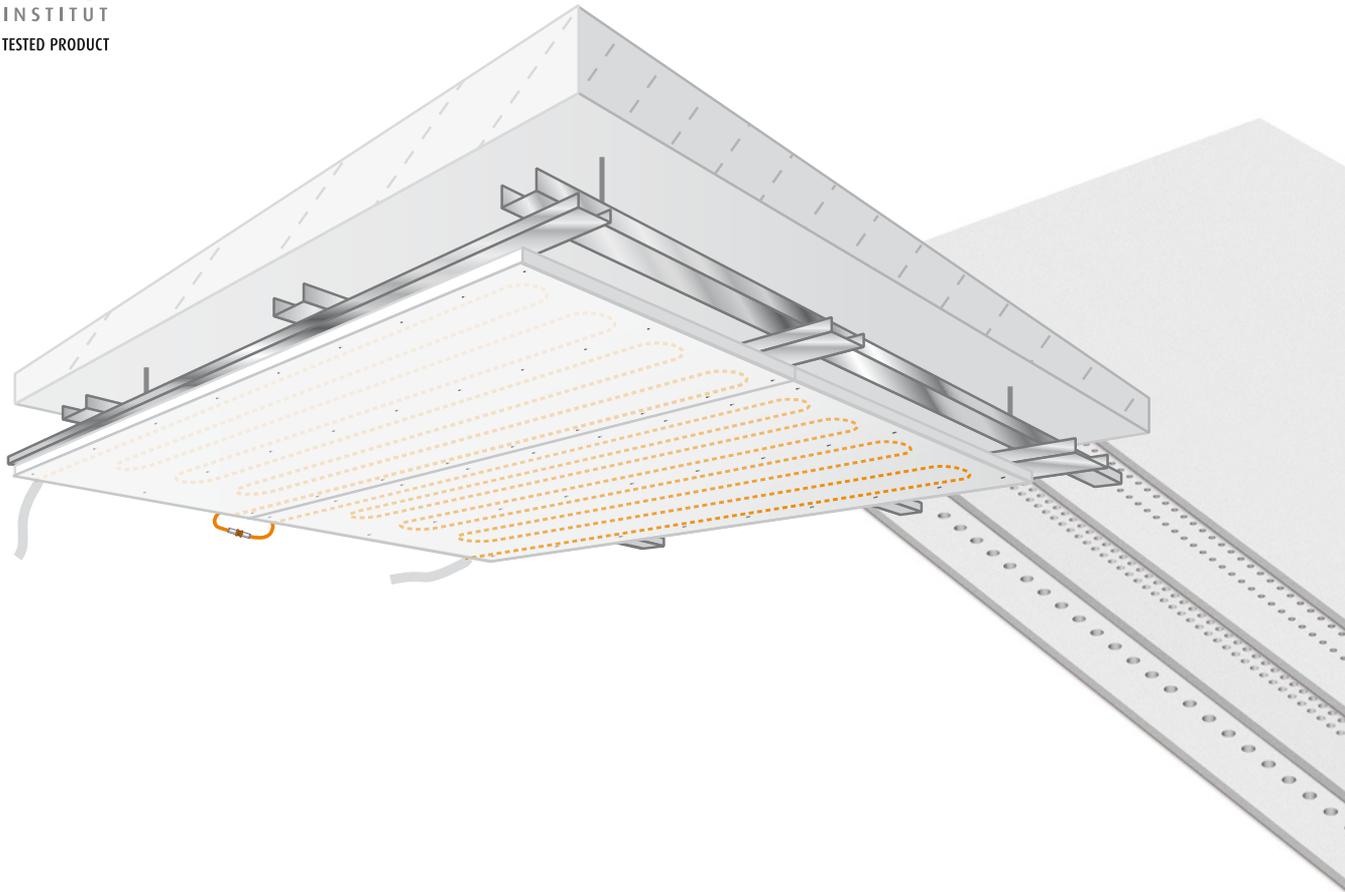


## FLEXIBLE BASIC SYSTEM. WITH COMBINATION OPTION.

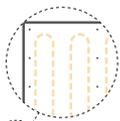
10 modular panels and the acoustic panel with 3 hole patterns facilitate customised design for all structural requirements.

The installation of the panels follows the same method as standard drywall construction. Screw onto metal or wooden support structures, connect the pipes and plaster. That's all there is to it.

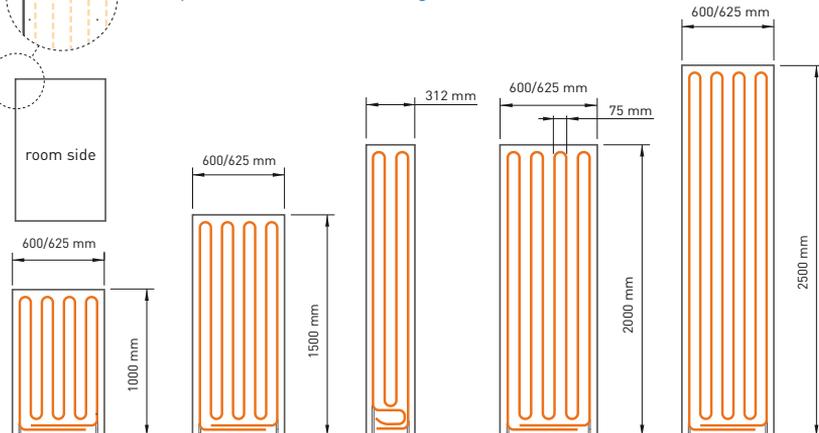
### ModuleCeiling-Classic



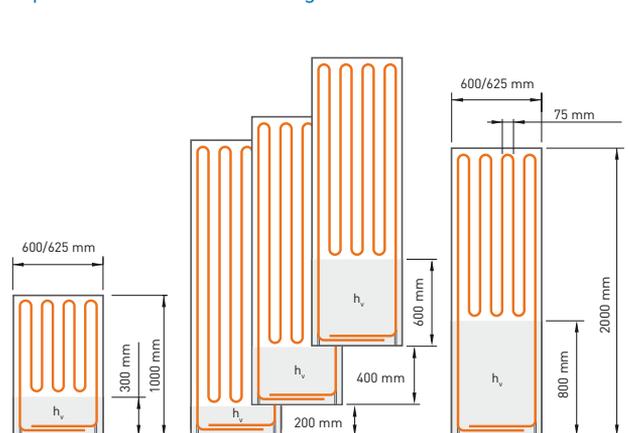
Exact screw markings



#### 5 panels with a fixed height



#### 5 panels with a variable height



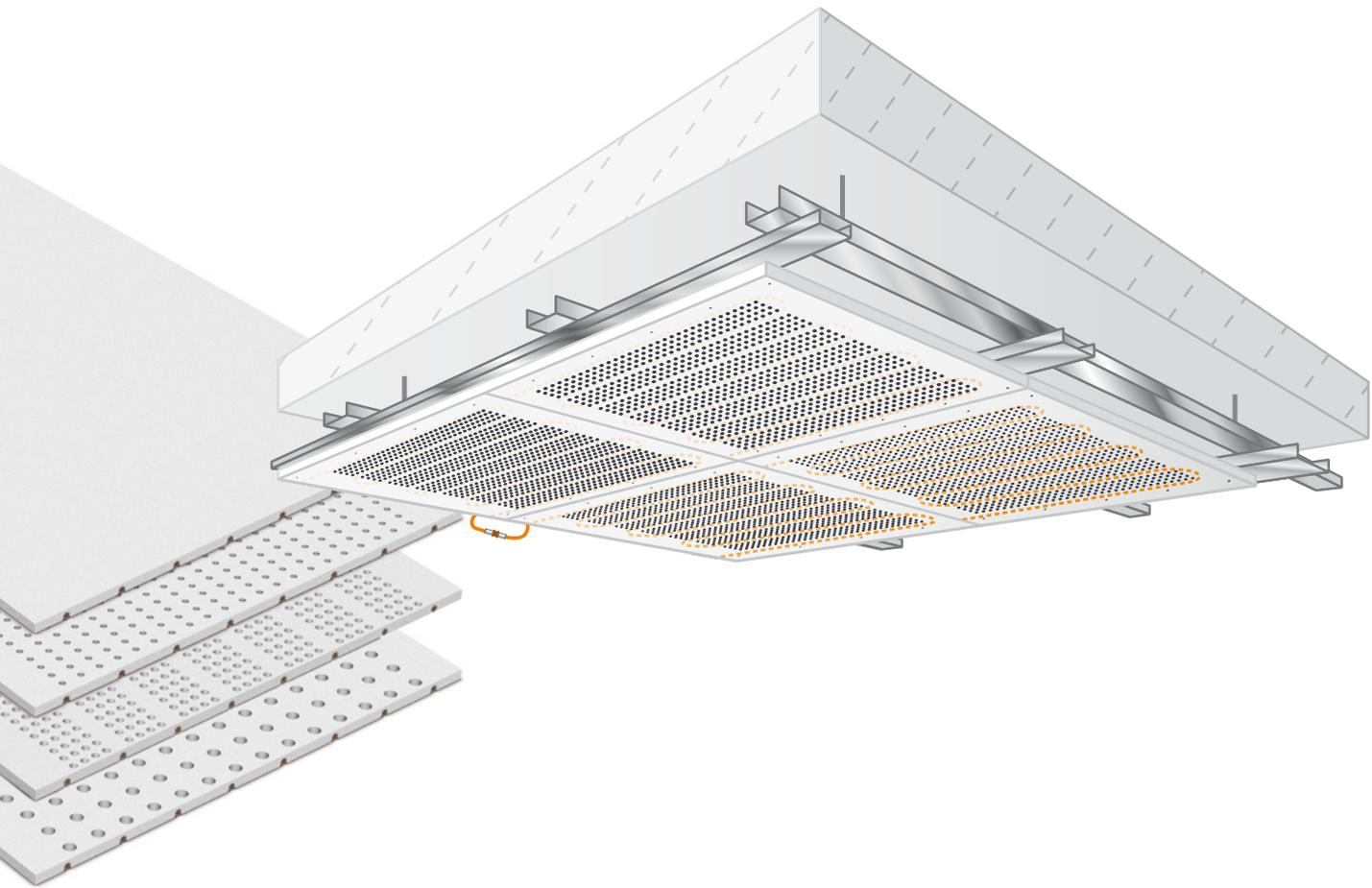
$h_v$  variable range: Height adjustment, sockets, etc.

## ATTRACTIVE AND SILENT. THE ACOUSTIC SURFACES.

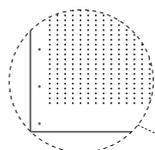
Variotherm ModulePanels are available both with a smooth surface and with a noise absorbing acoustic surface. Since the pipes are in no direct contact with the room air, condensation problems are minimised.

**One special detail:** With Variotherm, the holes of the acoustic panels are not covered by cooling/heating elements. This is the only way to ensure certified, guaranteed noise reduction.

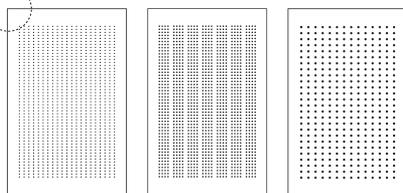
### ModuleCeiling-Acoustic



The ModuleCeiling-Acoustic is available in two different hole patterns: With the 8 millimetre block perforation or 6 and/or 12 millimetre surface perforation.



Exact screw markings



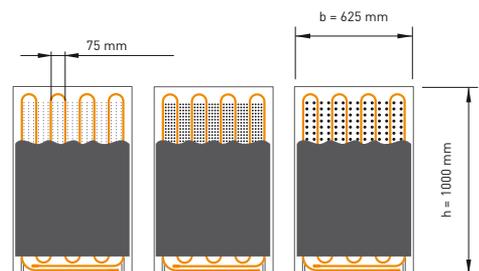
Hole sizes 1:1

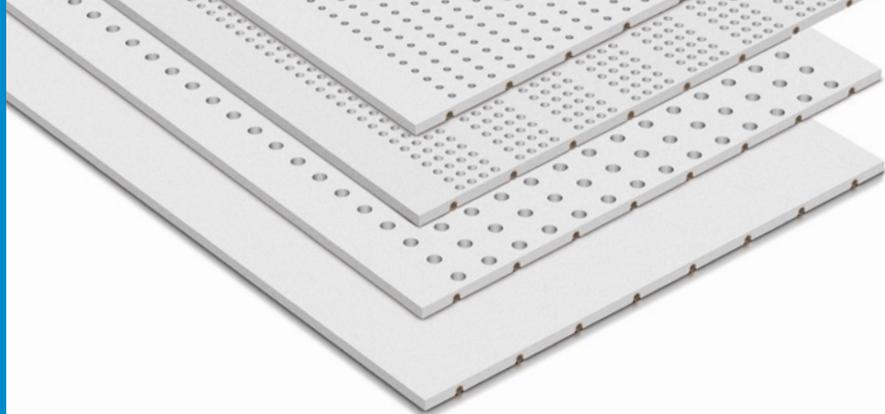
6

8

12

Hole area fully covered with acoustic fleece



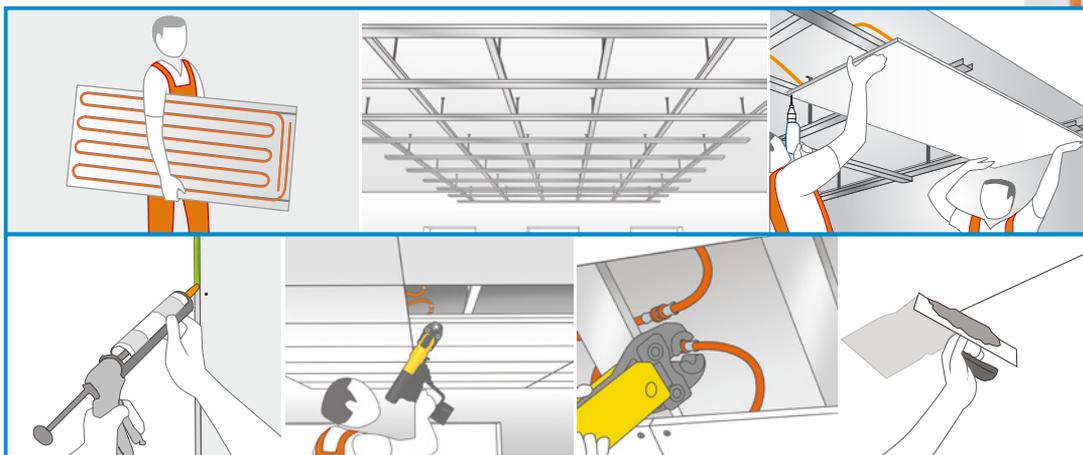


# SIMPLY. QUICKLY. INSTALLED.

## THE SUBSTRUCTURE

The flexible Variotherm ModulePanels impress with their diversity and adaptability. Installation is simple and quick, just like standard drywall construction. As a substructure, both metal and wood constructions are suitable.

# 1



## INSTALLING THE MODULEPANELS

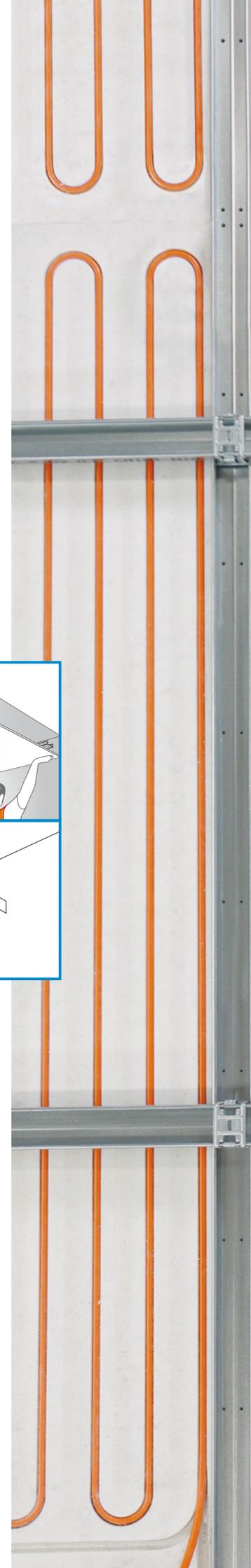
Align the panel in position. Fix through the pre-marked drill wholes. Apply joint adhesive along the edge for a 100% absence of cracks. Fit the next panel into place and screw on. That's all there is to it.

# 2

## FINAL INSTALLATION

Connect the VarioModule pipes securely using the press fit coupling. Connect to the cooling/heating distribution manifold with the pre-insulated VarioModule pipe. That's all there is to it! The gypsum fibre boards are then ready for plastering or painting.

# 3



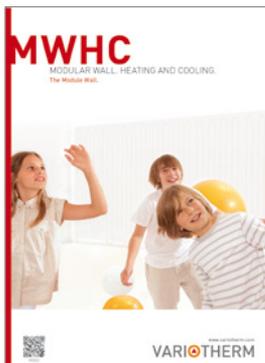


MODULAR CEILING COOLING | MODULAR CEILING HEATING

# STRONG. ARGUMENTS. GUARANTEED.

- Large surface cooling and heating of ceilings
- Available with a smooth surface or sound absorbing acoustic surface
- Flexible installation system
- Low energy costs thanks to efficient low temperature systems
- Biological material
- Completely silent
- Certified fire resistance
- 10 year guarantee

## ALSO AVAILABLE FROM VARIOTHERM



MODULAR WALL.  
HEATING AND COOLING.



WALL-CEILING.  
HEATING-COOLING.  
PLASTER.



MODULAR.  
FLOOR HEATING.  
20 mm.



SCREED.  
FLOOR HEATING.  
SYSTEMS.

YOUR VARIOTHERM PARTNER



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