



ECO-FRIENDLY

The development of energy costs has only one tendency: growing rapidly. More than two thirds of a buildings energy demand is used for room temperature regulation. Thus, it is important to think and act in a energy-conscious way.



ENERGY-EFFICIENT

SIETHERM connects the most attractive features of innovative heating systems. Save energy costs without giving up comfort.

The PERFECT Combination

SIETHERM works not only energy-efficient and maintenance-free, but with the benefit of a distribution layer also creates a pleasant and healthy room climate.



Wall heating systems coated with a layer of clay plaster is the cutting-edge type of an ancient technique.

Clay plaster is appreciated for thermal comfort all over the world. It does not only fulfil requirements concerning sound- and fire safety, but also provides a healthy indoor climate.



We offer you the unique opportunity to visit our "Ökoplatzl" at the Niederndorferberg in Tyrol, where you are allowed to experience the benefits of a SIETHERM wall heating system yourself.

Feel the sense of radiant heat and clay plaster. Enjoy the ideal room climate for not only a few minutes, but a whole night.

Contact us for more information about our **ÖKOPLATZL**:

LEHMBAU Sieberer Gewerbepark 1 A-6346 Niederndorferberg

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The IDEAL connection WALL HEATING SYSTEM with CLAY

LINE LINE





RADIATOR

Radiator gaps are often hard to clean and dust starts to accumulate. This dust can be spread through the whole room by air flows, which might cause health issues.

In order to reach the desired room temperature of around 22 $^{\circ}\mathrm{C},$ you will need a preliminary temperature of more than 65 $^{\circ}\mathrm{C}.$

WALL HEATER

The **SIETHERM** heater obtains a comfortable radiant heat through its large surface, which can be compared with the experience of a tiled stove or sunrays.

Furthermore, the room develops an even thermal image, which reduces the risk of mould formation.







COMFORT and **WELLNESS** with RADIANT HEAT

SIETHERM helps to ECONOMISE

SIETHERM works as a low-temperature system. With only 35 °C of preliminary temperature, we accomplish a comfy indoor climate.

SIETHERM suits perfectly for modern and energy-efficient heat sources like thermal pumps or solar systems.





The perfect combination to wooden constructions

A system for heating and cooling



JIL

Ideal for renovation and rehabilitation

Design possibilities through invisible wall integration

With the help of thermal foil you can localize any water pipes. Screws, dowels and more can be attached easily.



EASY and EFFICIENT

How does SIETHERM work?

The construction of **SIETHERM** wall heaters is not only simple, but also efficient.

The heating water streams through pipelines; clay plaster absorbs the heating energy, transforms it into radiation heat and dispenses it into the room. Within only 10 minutes you will already sense the heat.

The wood fibre panels used behind the heating pipes simultaneously serves as thermal and sound insulation. These pressure-resistant panels are a solide plaster base and grant the installation of lightweight subjects.

A clay coating follows after the installation.



SIMPLE INSTALLATION with **PREFABRICATED MODULES**



The system of SIETHERM wall heaters consists of three different modules. Thus your heating is individual and even efficient for angled rooms.

The integrated insulation reduces thermal loss and marked pipe route allows a save installation.

SIETHERM can be combined with other heating systems like floor heating or conventional radiators.



Installation of various modules with the **TICHELMANNSYSTEM**



For the installation of various wall heating modules a parallel connection is necessary. Through this method, even larger rooms can be handled efficiently and the loss of pressure can be distributed evenly in all registers, which results in an equal heat allocation across each module.

FINISHING



- 2 Clay-reinforcement mortar, glass fabric
- **3** Final coat preparation for designing opportunity



SIETHERM was tested after EN 1264 and offers a excellent planning security

Construction chart **NEW BUILDING**

PRELIMINARY TEMPERATURE: **35°C** RETURN TEMPERATURE: **30°C**

SIE THERM 100/150/200	WALL HEATER R=0,00	SIE THERM 100	SIE THERM 150	SIE THERM 200
Room °C	Power W/m²	Power W/Modul	Power W/Modul	Power W/Modul
15	67,8	40,7	61,0	81,4
18	56,2	33,7	50,6	67,4
20	48,4	29,1	43,6	58,1
22	40,7	24,4	36,6	48,8
24	32,9	19,8	29,6	39,5

Construction chart **RENOVATION**

PRELIMINARY TEMPERATURE: **45°C** RETURN TEMPERATURE: **37°C**

SIE THERM 100/150/200	WALL HEATER R=0,00	SIE THERM 100	SIE THERM 150	SIE THERM 200
Room °C	Power W/m²	Power W/Modul	Power W/Modul	Power W/Modul
15	100,8	60,5	90,7	120,9
18	89,1	53,5	80,2	107,0
20	81,4	48,8	73,2	97,7
22	73,6	44,2	66,3	88,4
24	65,9	39,5	59,3	79,1

- maximum of design temperature forerun with heating pumps= 35°C

- maximum of surface temperature with floor heating systems = 29°C

- maximum of surface temperature with wall heating systems = 40°C

For relocation guidelines check the technical **SIETHERM** data sheet.





CONVINCING QUALITY





SCHNEIDER WOOD – wood fibre panels

Convincing through unique quality:

Pressure- and bending strength, safety for fungal infestation, heat storing, thermal- and sound insulation, breathable, hardly inflammable, building biologically recommended. Tested by Din EN 13171

CLAYTEC - Clay glue and clay-reinforcement mortar

Developed especially for wood fibre panels, the clay glue and clay-reinforcement mortar show adhesive strength and a formula perfectly matched for different undergrounds. Its high material weight (raw density) ensures a fast transfer of heat and coolness into a room.



Any questions?

We would be pleased to take some time for you within an personal consultation.

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STRONG ARGUMENTS

- \blacksquare high energy efficiency due to reduced flow temperature
- ☑ consistent temperature distribution
- ☑ comfort with healthy thermal radiation
- \blacksquare clay coating for a pleasant interior climate
- \mathbf{V} fast noticeable heating effect
- \mathbf{V} no turbulence of dust
- \mathbf{V} reduced air circulation
- \blacksquare ideal for retrofitting
- \mathbf{V} fast and simple installation
- $\mathbf{\mathbf{i}}$ excellent sound insulation
- $\boldsymbol{\boxtimes}$ added value for your property
- ☑ marked pipe run
- \blacksquare possible combination with floor heating system
- ☑ possible application at dry constructions
- \mathbf{V} especially optimised for wooden constructions
- \blacksquare simple combination with solar panels and thermal pumps