



TerraXtherm

TerraXtherm — Heating and Insulation combined

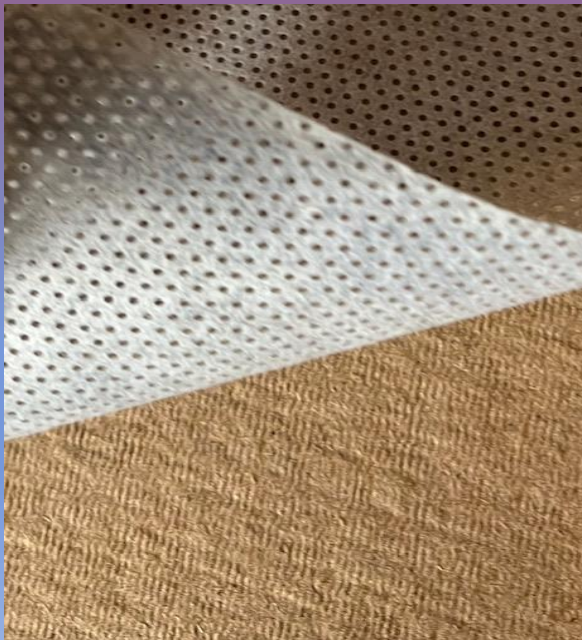
TerraXtherm THE SUSTAINABLE, COST-EFFECTIVE SOLUTION FOR INSULATION AND HEATING

20-YEAR WARRANTY — 10-YEAR MAINTENANCE

TerraXtherm – NEU AB 02/2024

TerraXtherm – heating and insulation combined, here we have developed a truly market novelty (own patent), the best insulation and heating values for residential and commercial heating solutions. Our **TerraCalor** technology combined with insulation technology and vapour barrier for quick installation. The construction is available in different thicknesses 10mm – 240mm and different insulation materials, our expert advisors can provide information, the price is also unbeatable, the installation is easy and safe.

The system can be mounted in any room as interior insulation on the ceiling, wall or floor (also as impact sound), with our 36V system anyone can install **TerraXtherm**, to connect to the mains you need an electrician (**TerraCalor** will be happy to help you with this). Here, too, we offer our customers a warranty of up to 20 years.



TerraCalor – TerraXtherm mounted directly on a soft wood fibre board (example of insulation), different sizes, suitable for any room. The panels can be mounted, floating, glued or screwed, easy handling guaranteed. Drilling can also be carried out in the area without affecting the calorific value.



TerraXtherm is connected to a simple plug-in system. Easy to use for everyone, as 36V low energy system. The cables can be processed well in the insulation.

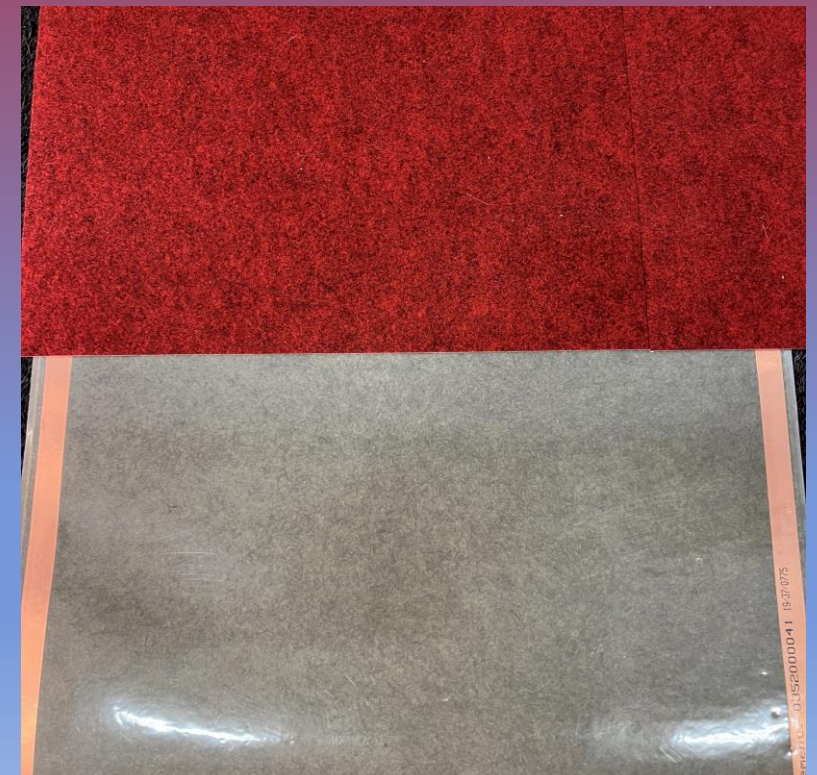
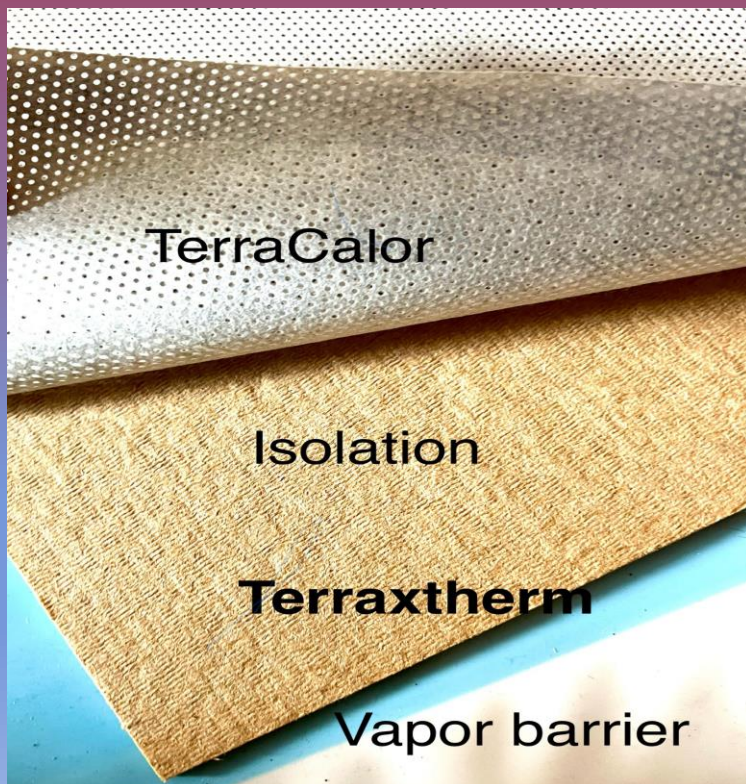
TerraXtherm - Technology

Aufbau von **TerraXtherm**:

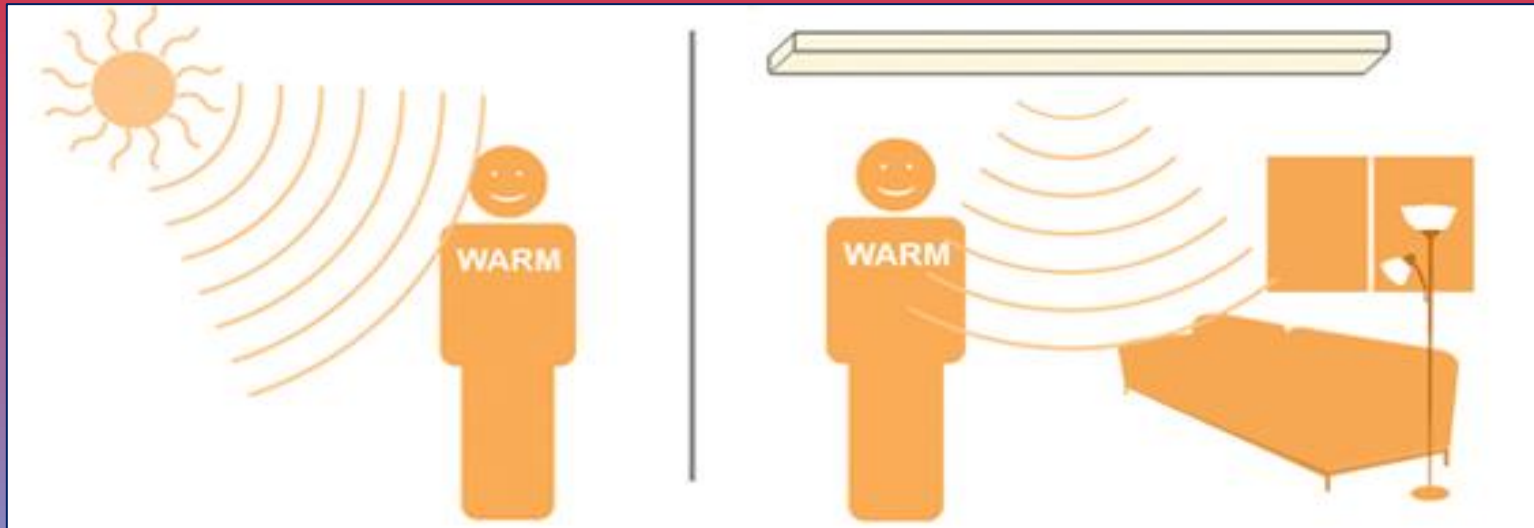
- **TerraCalor**
- Insulation and vapor barrier

Installation of **TerraXtherm** in a container for the cultivation of spices, just one example of how versatile **TerraXtherm** can be.

TerraXtherm - TerraCalor as underfloor heating with normal carpeting.



TerraXtherm — INFRARED FUNCTION



TerraXtherm is an efficient, sustainable, cost-effective surface or full heating system, in combination with insulation, the heating system can be installed and a heating concept can be created at the same time. **TerraXtherm** can offer you a complete insulation system, with external insulation as well as interior insulation including heating, heating and insulation belong together. **TerraXtherm** is an infrared heater, it is not the air in the room that is heated, but the objects (natural heat like the sun), which creates a healthy, well-feeling warmth. The heater can be installed with a normal thermostat, motion detector (When you enter the room you will feel the heat in a short time.). The control can be controlled manually or via an app, with our sensor technology heat is generated when you need it, preheating is not necessary, within a few minutes you can feel the soothing warmth of **TerraXtherm**.

We are open to all technologies and offer various insulations at **TerraXtherm**, but our standards use soft wood fibreboards, which have very good insulation values, are sustainable and efficient.

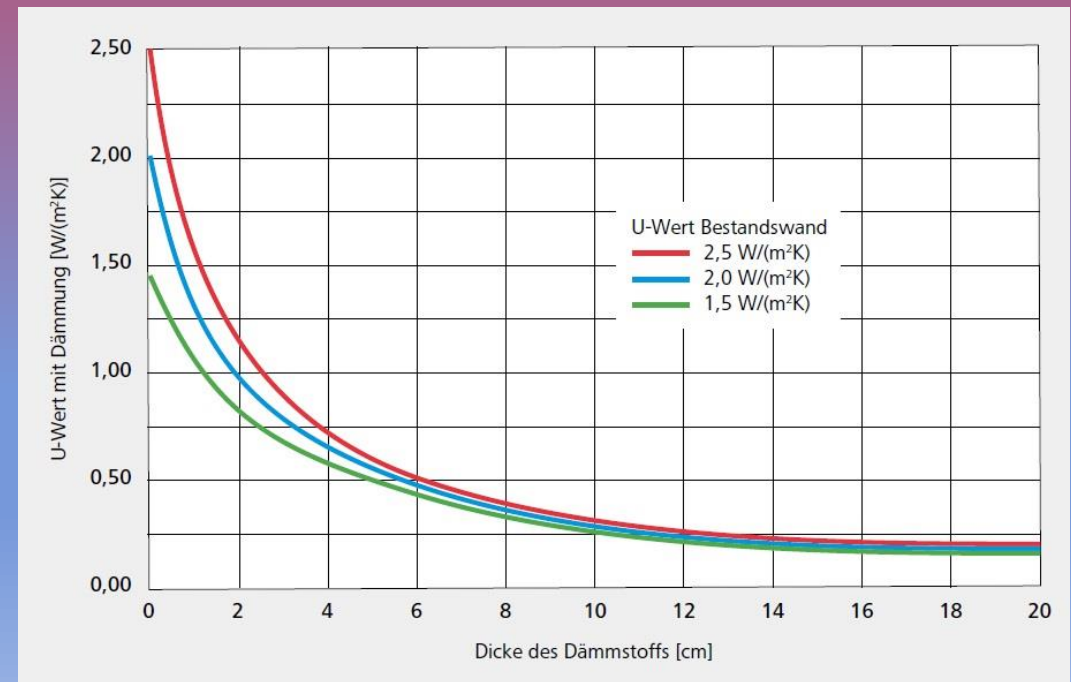
TerraXtherm-ADVANTAGES

- Lowest installation costs for new buildings, can be installed directly by the painter, floor layer, etc.
- Heating and insulation combined, one-time installation with **TerraXtherm**
- Quick and simple solutions are possible for renovations, whether in walls, ceilings or floors
- Little space required, resulting in much higher added value for your property
- **TerraXtherm** requires up to 50% less energy for space heating than conventional heating systems
- Extremely efficient with our solar battery solution and unsurpassed in terms of operating costs
- There are no maintenance costs, we guarantee a 20-year warranty and 10-year maintenance-free for installation according to our specifications
- Fast, healthy, sustainable heat through infrared technology
- People with allergies, respiratory or bone problems experience an increased quality of life after a certain period of time
- The energy used is converted into heat without much loss compared to other electric heating systems, which makes **TerraXtherm** very efficient. The generated and harmless infrared radiation heats the objects directly, without causing air turbulence, which means that less ventilation is required and heat cannot escape.
- Especially allergy sufferers, rheumatics and people with skin diseases will feel the special effect of infrared heating.
- **TerraXtherm** ist, seen over the years, is by far the most cost-effective heater on the market.
- Eligible for funding under the new Heating Act 2024 in Germany

TerraXtherm – EFFECTIVENESS OF INSULATION

Facades of old buildings can often be characteristic of the location due to various stylistic elements and in most cases must be preserved for reasons of monument protection or from a design point of view. In these objects, external insulation of the façade is not possible or desired. Even in the case of condominiums in apartment buildings, the wish of an individual for a better insulated exterior wall in the façade area can often not be met if there are objections from other owners. Even in the case of a border development, external insulation is often out of the question. The cost-benefit ratio of buildings with temporary use is often unbalanced. In all these circumstances, TerraXtherm as interior insulation is the solution. In poorly insulated houses, the walls are cold and thus make the occupants shiver even in overheated rooms.

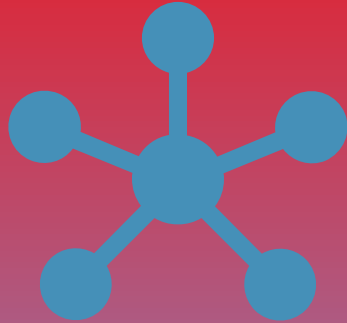
The following diagram shows the U-value of exterior walls that have subsequently been insulated on the inside as a function of the U-value of the existing wall and the insulation thickness for a thermal conductivity of $\lambda = 0.04$ W/(m²K). It becomes clear that the first few centimetres of insulation thickness are decisive and that more than 100 mm is of little use in terms of thermal insulation. At the same time, the risk of excessively high moisture content in the system increases. With TerraXtherm you can apply the right solution in exactly this area. Insulation and insulation combined make a big difference, especially in old buildings. TerraXtherm is unique in this field.



Installation instructions



TerraXtherm In addition to the copper strips, holes of max. 70mm can be drilled, the heating effect is not lost, good for retrofitting lamps, sockets, pictures, etc. **TerraXtherm** is a 36 volt system, so it can be installed by anyone. With a transformer system, which is installed in or on the wall, you can connect the heater directly to your power grid. With our **TerraPower** package, you can feed the heating directly into the grid via our 36V storage tank. **TerraXtherm** can be screwed and glued, and floating installation is even possible on the floor.



TerraXtherm



Internet



Handy o. Computer

TerraXtherm is a highly intelligent heating system and we continue to work on optimising the heating processes. With our system, you can control your heating optimally and very easily. In the future, we will use AI technology to ensure that your apartment, building, company, hotel, etc. can be heated efficiently and comfortably.

TECHNICAL REQUIREMENTS FOR OPTIMIZED HEATING RESULTS

TerraXtherm - PICTURES



TerraCalor

TerraXtherm

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