



CASE STUDY

INGENIOUS WARMTH FOR A YOUNG FAMILY

PRIVATE HOME | AUSTRIA

THE SITUATION AT THE OUTSET.

A young family from Salzburg wanted to set up the home of their dreams in a modern new construction in Salzburg. For this, they needed a clean, comfortable and cost-effective heating solution.

THE CHALLENGE.

Independence from oil and gas was very important to the family, and they also wanted a healthy room climate as free from dust as possible, as well as being as maintenance-free as possible.

The indoor area was to be heated with pleasant radiant heat, while the outdoor areas were to enjoy the comfort of patio spotlights and open space heating. Furthermore, everything was to be connected to a photovoltaic system and controlled by an intelligent home automation system.

THE ETHERMA SOLUTION.

Together with the ETHERMA planning team, an integrated heating concept was developed that met all these requirements.

The electric heater as a heating system of today - is a combination of storage of generated power in the form of heat in the concrete core of the floor, that gradually releases this into the area, and the LAVA® Design infrared heating in areas with increased heat demand, such as bathrooms and living rooms.

In this project, this was achieved using ETHERMA under-floor heating, which was installed in screed. By installing the heating mats in screed, a storage effect is achieved and thus a temporal shift in the heat output. In addition, a LAVA® design infrared heater was installed in the bathroom area. In addition to storage of generated power in the form of heat, the Watzal family relies on battery storage which, in conjunction with eNEXHO and an intelligent energy management system, coordinates the electricity generated in the house and optimises the electricity consumption in the home.

THE SOLUTION IN DETAIL

The building owners were convinced of the benefits of electric heating right from the start: Electric heating means independent and clean heating. Because in addition to clean electricity production from our photovoltaic system, many energy providers offer electricity from hydro, wind and solar power. That gives us a good feeling. In addition to heating indoor areas, electric

heat was also used outdoors. On terraces, SOLAMAGIC® radiant heaters provide comfortable warmth all year round. The driveway is reliably kept free of snow and ice by an ETHERMA open area heating system. This creates safety and is comfortable - because you should spend your free time doing more pleasant things than shovel snow.

ETHERMA UNDERFLOOR HEATING IN SCREED - BENEFITS OF THIS PRODUCT

- + 40 to 240 W/m²
- + Very low magnetic field < 25 nT
- + Only one connector cable
- + Ideal heating system for heating low energy and passive houses
- + Various sizes and outputs enable easy planning and simple installation



LAVA® DESIGN-IRRED RADIANT HEATING - PRODUCT BENEFITS

- + Highest radiation efficiency due to
- + Frameless Infinity design
- + Plug & Play connection system for easy individual control
- + Highest safety against breakage and overheating
- + No service or maintenance required
- + Without magnetic field



LAVA® GLAS 2.0 Mirror



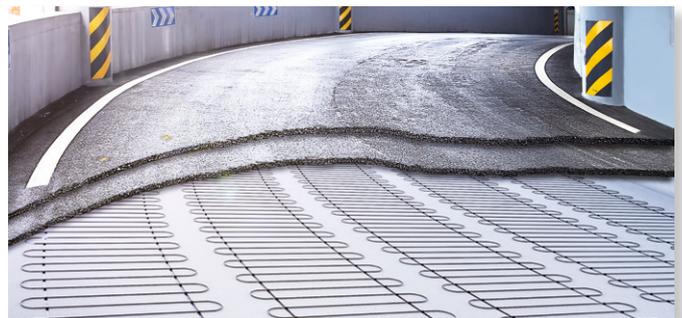
SOLAMAGIC® S1 PREMIUM-IRRED RADIANT HEATING - BENEFITS OF THIS PRODUCT

- + Innovative Solastar heating element
- + New quick mounting system
- + Quick clamping binder for fast alignment
- + Soft start function with S1-2000 - reduces the switch-on current
- + Integrated connection system (Hirschmann)
- + Modular set-up - extendable with radio-controlled or dimmable module via Bluetooth



ETHERMA OPEN AREA HEATING - BENEFITS OF THIS PRODUCT

- + Abrasion warning and improved flexural and tensile properties due to fibre-glass armoured braid
- + Only one access line for an easy installation
- + Custom-manufactured in our plant
- + The heat conductor is resistant to spherical acids, bases and faeces
- + Planning of the project and custom-made production



EXPERTISE AND QUALITY FOR MORE THAN 35 YEARS.



With ETHERMA, you have an expert partner for your heating solutions with more than 35 years of experience. You will benefit from our continuous innovation, high-quality products and modern design. We offer an extensive range of services to support you and can find a product solution suitable for your individual requirements. As an Austrian business active internationally, our electrical heating systems are made to measure, in-house.

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