



## CASE STUDY

# INGENIOUS WARMTH IN THE CASTLE.

## HOHENSALZBURG | SALZBURG | AUSTRIA

### THE INITIAL SITUATION.

Hohensalzburg Castle forms a unique and integral part of Salzburg's breath-taking scenery. Inside the museum, it is possible to immerse yourself in the Middle Ages, but there is one thing that the museum unintentionally also recreates - the icy cold.

### THE CHALLENGE.

An efficient and cost-effective heating system was needed as part of the renovation process - one which would keep the museum's rooms at a pleasant temperature. On the other hand, the acute problem of mould build-up on the walls also had to be tackled, the result of crumbling, ageing and barely insulated brickwork.

### THE ETHERMA SOLUTION.

Together with the museum operator, ETHERMA developed an ideal solution, which was economically viable while also being simple and easy to install. To be specific, ETHERMA WST heating mats were installed beneath a layer of clay plaster, thus providing invisible but cosy radiant warmth. ETHERMA wall heating thus acted as a fully-fledged heating system, while also working to dry out the walls as a preventive measure against mould.

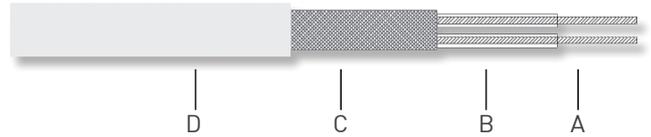
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### THE SOLUTION IN DETAIL.

The ETHERMA wall heating WST works on the principle of an underfloor heating and is a space-saving and invisible heat source. For this reason, the product is ideal for the fortress Hohensalzburg - because it does not disturb the medieval flair. The wall heater WST is based on the technology of infrared heat and therefore does not heat the room air, but primarily solid objects. It is important to place the netted heating mat under the plaster, which allows unhindered radiation.

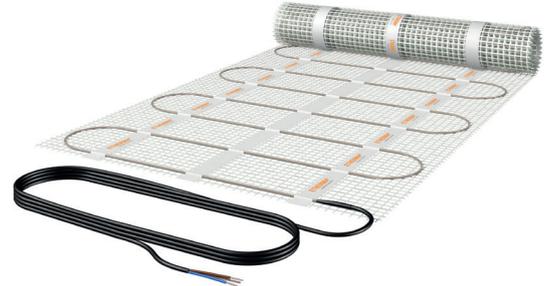
The mesh heating mat WST was specially developed for wall heating. It is a prefabricated heating mat with teflon interior and exterior insulation and is now used to heat the castle interior and at the same time the cold insulation or the prevention of mold growth on the castle walls. Due to its only 3.3 mm thin construction, the mesh heating mat allows a low installation height. The dipole design guarantees easy and quick installation in the plaster and is thus ideal for the renovation process and replacement of the existing heating system.



- A Resistance cables
- B Teflon inner insulation
- C Protective sleeve made of tin-plated copper shield
- D Teflon outer insulation

### ETHERMA WST WALL HEATING - PRODUCT BENEFITS

- + Voltage 42 V and 230 V
- + Only 3.3 mm thin
- + Prevention against damp walls
- + Pleasant radiant heat



### 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.