



CASE STUDY

INGENIOUS WARMTH ON THE PRATER

Ferris Wheel Prater | Vienna

THE SITUATION AT THE OUTSET.

We all know the feeling, don't we? Many people associate the Ferris wheel and landmark of Vienna with unforgettable and heavenly moments high above the rooftops. Besides the view from above of the beautiful city of Vienna, here you will encounter the most exclusive ambience for very special occasions. But often the romance in the candlelight wagon and enjoyment of the unique view was disturbed by the freezing cold. Especially in the cold season, Ferris wheel operators were faced with the serious problem of keeping the traditional old gondolas pleasantly warm. During the process of replacing the old gondolas with modern units, a heating system was integrated for greater visitor comfort. Although the design remained unaffected, the technology was now state of the art.

THE CHALLENGE.

An exciting challenge for the ETHERMA technical team. We were looking for a heating system that saves space, is lightweight and can be protected against vandalism. Frequent entering with wet shoes led to moisture in the cabins, which should be prevented in the future. A longer stay in one of the six luxurious VIP wagons should also be possible in classy and light and airy evening wear. Goose bumps should then only be caused by the breathtaking view.

THE ETHERMA SOLUTION.

ETHERMA is the right partner when it comes to tricky heating solutions, as our broad product range covers every requirement of the Ferris wheel operators:

Underfloor heating was installed in all 15 new wagons. The ETHERMA DS dipole netted heating mats were used. These are ideal for heating smaller spaces with or without poor insulation (in this case due to the large window areas). The short heating time helps dry out damp footwear, ensuring that no moisture remains in the cabins. Since the netted heating mats can be custom-made, even the unusual space size of the cabins is not a problem.

To create pleasant warmth in the six VIP gondolas, a wall heating system was installed in addition to the underfloor heating. The solution was ETHERMA Laminotherm. These dipole heating mats are standard laid under laminate and parquet floors. Since the cabin walls had a very small installation depth, the Laminotherm, which has an installation height of only 1.3 mm and is suitable for dry construction, could be perfectly used here as a special solution. It is extremely space-saving; this advantage comes in useful for the already rather small cabins. In addition, the ETHERMA DS and ETHERMA Laminotherm are particularly easy and quick to install.

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The solution in detail

THE WORKMANSHIP.

The grid heating mat DS is a factory-made ready-to-use grid heating mat to temper the floor temperature for heating rooms or sealing off the cold in walls. With a mat thickness of only 2.7 mm, the DS can be laid perfectly at a low installation height. The grid heating mat DS is self-adhesive and because of the dipole version it can be easily installed in tile-adhesive layer.

The stitching technology guarantees a 100 % safe and easy installation, as well as a high stability of the heating mat. The grid heating mat is available in three standard power outputs of 130, 160 and 200 W/m². In this case the net heating mats were made-to-measure.

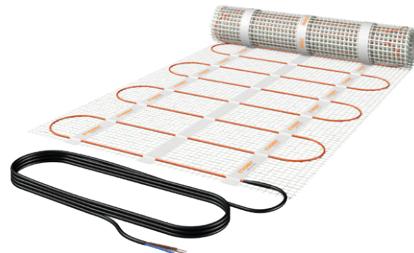
Laminotherm heating mats are normally used for temperature control of the floor and heating rooms fitted with parquet and laminate floors. Laminotherm underfloor heating was converted into wall heating in order to meet the special requirements of the cabins in terms of installation depth and type.

The reinforced aluminium fabric guarantees an optimal heat distribution and prevents the formation of "Hot Spots". The emission of electric smog is very low and due to the dipole completion and the setting of only 1.3 mm, this heating mat can be installed very easily in dry construction and takes up very little space.

ETHERMA DS - DIPOL- GRID HEATING MATS

PRODUCT ADVANTAGES

- + Only 2.7 mm thin
- + Also suitable for wall heating
- + Self-adhesive netted heating mat
- + Only one connector cable
- + Very low magnetic field < 25 nT
- + Flat, torsion-free laying thanks to stitching technology
- + 3 standard widths: 30, 50, 100 cm
- + Custom-made special orders and sizes



ETHERMA LAMINOTHERM - DIPOLE HEATING MATS

PRODUCT ADVANTAGES

- + Only 1.3 mm thin
- + Ideal heat distribution due to special foil
- + Very low magnetic field < 25 nT
- + Easy and quick mounting due to floating installation and only one connection line



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.