



CASE STUDY

INGENIOUS HEAT FOR YOUR GARAGE

Private house entry | Lower-Austria

THE SITUATION AT THE OUTSET.

Every year again, winter is just around the corner. The first snowfall is awaited with eager anticipation. As beautiful as a white winter landscape can be, you could do without having to clear the snow from your entrance way in the early morning. Those days are over - snow shovels, ice picks and salt scattering are now a thing of the past - thanks to ETHERMA open space heating. One family in Lower Austria was rapidly convinced of its advantages and can now roll over in their warm, cosy bed with a clear conscience in the cold season.

THE CHALLENGE.

The open space heating should ensure snow and ice-free access to the house to ensure a safe and accident-free journey and to save time and trouble in the early morning hours. The open-air heating in the entrance way required the use of a special plastic overlay, which can be driven on but which is still thin enough to ensure fast, efficient heat transfer. In addition, the family attached great importance to automatic heating control of the system, which responds depending on weather conditions and requirements in order to be able to start the winter without worries.

THE ETHERMA SOLUTION.

ETHERMA, in cooperation with Westwood, a plastics technology company, took up the great challenge. Westwood took on the task of developing an overlay. An overlay of only 8 mm thick was used, which guaranteed fast and almost loss-free heat transfer. The NST grid heating mats provided by ETHERMA are ideally suited for renovation, as the mat, which is only 3.3 mm thick, takes up barely any structural height. A core component of the complete solution is the installation of a humidity and temperature-dependent control system. This fully automatic control guarantees a safe function and at the same time operating cost savings. Ice formation and snowfall are detected early so that an accident-free winter is guaranteed.

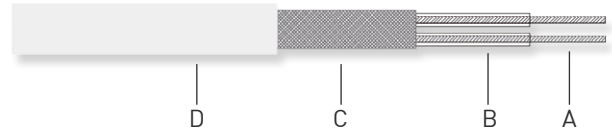
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THE SOLUTION IN DETAIL

The ETHERMA NST dipole grid heating mat is an extremely resistant netted heating mat for operation in indoor and outdoor areas. It is also factory-assembled with Teflon inner- and outer insulation. This netted heating mat is due to the outer sheath chemically resistant and therefore excellently suitable for installation in chemically aggressive areas such as public toilets, pools or paint shops where strong cleaning agents are used. Due to the Dipole completion an easy fitting is guaranteed.

Furthermore, the heating mats are also suitable for installation in free space under tiles in flexible adhesive or various thin coats. This enables an especially flat fitting for the reconstruction of ramps, foot paths and access roads.

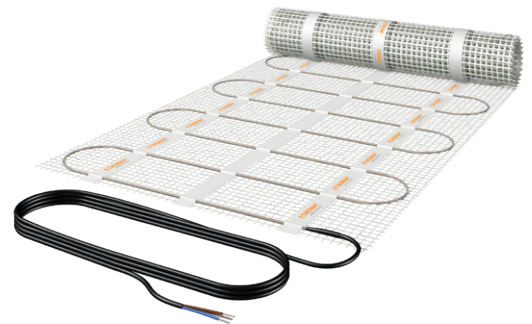


- A Resistance cables
- B Teflon inner insulation
- C Protective sleeve made of tin-plated copper shield
- D Teflon outer insulation

ETHERMA NST - PRODUCT BENEFITS

DIPOLE-GRID HEATING MATS-STRONG WITH TEFLON-INSULATED HEAT CONDUCTOR

- + Power output: 160 – 300 W/m²
- + Custom-made special outputs available
- + Connection line custom-made
- + Fast heating response
- + Only 3.3 mm thin
- + Stitching technology guarantees a safe fitting
- + Chemically resistant



ET-8352F - PRODUCT BENEFITS

OPEN AREA CONTROL SYSTEM

- + Optimisation of operating costs through humidity and temperature-dependent control
- + Early detection of ice formation and snowfall creates safety
- + Fully-automated control of the open space heating



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.