



Threshold and Ramp Heating

Product sheet

Ice prevention system for Thresholds and Ramps

V1.1 version

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Thermatek® is a registered trademark of Safeguard Electronic Systems Ltd.



Certificate No:253422016



Key features

- Ultra-low voltage system ensures maximum safety combined with high level of efficiency
- Based on 35 years of experience our technical team and consultants advise on the most cost-effective and reliable system for your project
- Individual transformers sized and made in the UK with the most popular transformer sizes always held in stock
- Our heating elements are made from 2.64 mm Stainless Steel coated wire designed to last longer than the lifetime of the coldstore / freezer. Projects engineered by Thermatek® have been in the ground for over 30 years
- Bespoke detailed design for each project is carried out and full drawings and installation instructions are supplied for each project
- Thermatek® is a highly agile business ready to react to our customer's changing needs

Benefits

Custom solution

Bespoke designed and engineered solution matching your specific site requirement

Quality assurance

Quality is assured through our ISO9001 Certification

Quick response

Allows speedy response for projects with tight timescales

Durability

Safe in the knowledge that the most important part of our heating system, that which is below the ground and inaccessible, is designed to last a lifetime our customers need not be concerned with the future risk of ice forming

Efficient design

Installation is straightforward thanks to the detailed design drawing created for each project. The design will show exactly where the wires will must be located in the threshold or ramp

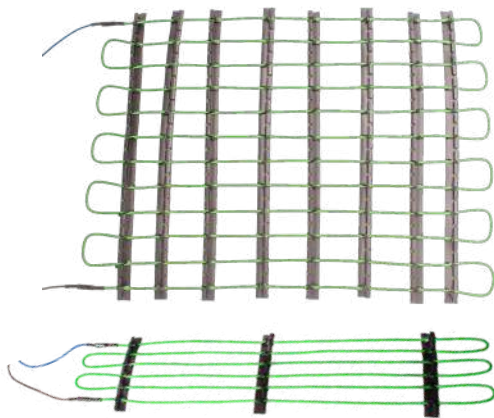
Timely delivery

Commitment to meeting and exceeding project timelines to keep your work on track



Product information

Cold store and freezer ramps can become hazardous as condensation turns to ice. Thermatek® offers an ultra-low voltage heating solution that prevents ice and condensation, ensuring safety and reliability. Built with heavy-gauge stainless steel, these energy-efficient systems are cost-effective and adaptable to various industries, including food storage, catering, and pharmaceuticals, and fit nearly any ramp or threshold configuration.



Typical heater wire arrangements

Ramp and threshold heating

Thermatek® ramp and threshold heating systems are designed with versatility and durability in mind. The ultra-low voltage heating elements are made using heavy-gauge stainless steel wire and can be shaped to suit any ramp or threshold size. They are installed in shallow cut-outs or rebates within the ramp or threshold and are covered with either a screed or a steel plate for mechanical protection.

Each system is fully customized to the installation's unique requirements, with heating elements and power supply tailored to the specific size, temperature, and environmental conditions of the ramp or threshold.

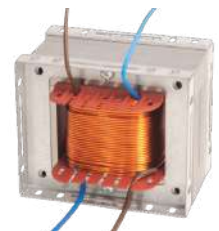
Thermatek® supplies the system as a pre-sized grid of robust heating wire, cut to the exact dimensions required. Cold tails are pre-attached in lengths specified by the customer to streamline the installation process. The transformers are housed in durable Thermatek® transformer enclosures, based on the system's size and power needs.



Robust 2.64mm Stainless Steel Heating Wire



Transformer housing



Heater wire specification

ANNEALED & PVC COATED STAINLESS STEEL WIRE 1.4307							
C.	Si.	Mn.	P.	S.	Cr.	Ni.	N.
0,19	0,315	1,457	0,035	0,002	18,399	8,695	0,054

CORE SIZE	2.64mm
TENSILE	653N/mm2
ELONGATION	65%

You can find all the standards we adhere to in producing our products on thermatek.co.uk/standards



About us

Based in the UK, Thermatek® specialises in **bespoke frost heave and condensation prevention systems, designed and manufactured in the UK** to meet the unique demands of each client. With almost 35 years of experience, 14,000 installations and **ISO9001-certified** quality, our durable, ultra low-voltage systems are trusted by high-profile clients around the world. Our solutions offer unmatched fit-and-forget reliability ensuring cold stores run smoothly and carefree.

>14,000 projects



+2°C to -80°C



10sqM to > 9,000sqM



35 years



ISO 9001



International



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