



## Protecting cold store floors against frost heave and condensation

When a new cold store or freezer is installed, an effective thermal barrier under the floor is essential to prevent serious damage from the effects of condensation and frost heave. Thermatek® products provide dependable protection that is easy to install, cost-effective and designed to last a lifetime.

### The threat of frost heave

If the sub-zero temperatures inside a cold store, cabinet or freezer are allowed to pass into the ground below, then the moisture in the soil will gradually freeze.

As the moisture freezes it expands upwards, putting pressure on the cold store floor, which causes it to crack and bow.

This quickly deteriorates, resulting in an uneven floor that can no longer support shelving properly and is hazardous to walk or drive on.

### Practical solutions

Thermatek products prevent the low temperatures within cold stores, freezers and chillers from passing into the floor or ground below. They create a highly effective thermal barrier, using a series of low voltage heating elements, managed by an efficient, active control system.

Thermatek products are quick and easy to install, usually at the time the cold store, freezer or chiller is being installed.

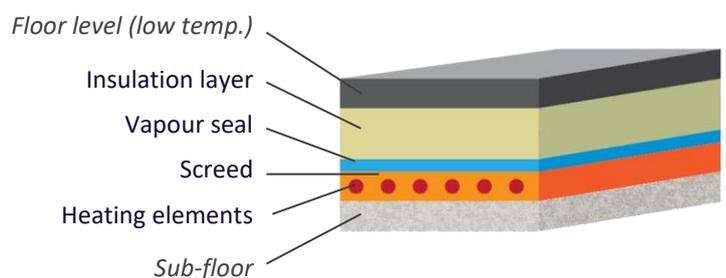
**For more information, please see the overview of our products, over the page. Contact us via [sales@thermatek.co.uk](mailto:sales@thermatek.co.uk) or phone +44 (0)1488 684 888.**

### Damage from condensation

If your cold store, freezer or chill cabinets are installed on upper floors, the low temperatures can pass down into the floor and through to the ceiling below.

In the rooms below, moisture in the air will condense on the cool ceiling, creating water droplets that drip down.

This can result in water damage to goods, machinery or office equipment, as well as creating a slip hazard in working areas and walkways.





## Thermatek products for frost heave and condensation prevention

Thermatek is a recognised leader and innovative manufacturer of systems for preventing frost heave and condensation beneath cold stores and freezers. We can supply standalone products for installers and offer an expert design service so that every installation is perfectly suited to its environment.

### The Thermatek control system

All of our frost protection products are managed by a thermostatic control system which delivers outstanding energy efficiency and reliability.

As well as maintaining the optimal temperature for the thermal barrier, it can detect faults in the circuits and elements, providing visible and audible warnings and a system of error codes for maintenance engineers.

### ThermaMod – modular, easy installation

This system is ideal for any size of cold store, including those where height is restricted. Heating elements and sensors are incorporated into flooring grade insulation which allows you to lay the final flooring surface directly on top.

These modular panels are quick and easy to install. Every system is supplied as a custom kit, including the controller, sensors, modular panels and wires.

### Next steps

To find out more about our products or to enquire about our expert design service, please email [sales@thermatek.co.uk](mailto:sales@thermatek.co.uk) or call +44 1488 684 888.

### ThermaThin – extra low profile

The ThermaThin foil system is just 2mm thick, making it perfect for small cold stores and cabinets, including those with in-situ floors.

The heating elements are constructed from aluminium foil, laminated between tough plastic. If any part of the flooring becomes damaged the rest continues to operate independently. ThermaThin is supplied as a custom kit, with controller, sensors, panels and wires.

### ThermaTrad – concrete-encased

The original Thermatek frost protection system, which provides a highly effective solution in situations where you are able to lay the heating elements on the subfloor with a concrete screed.

ThermaTrad is supplied as a custom kit, including the controller, sensors, heating elements, wires and fixings.



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