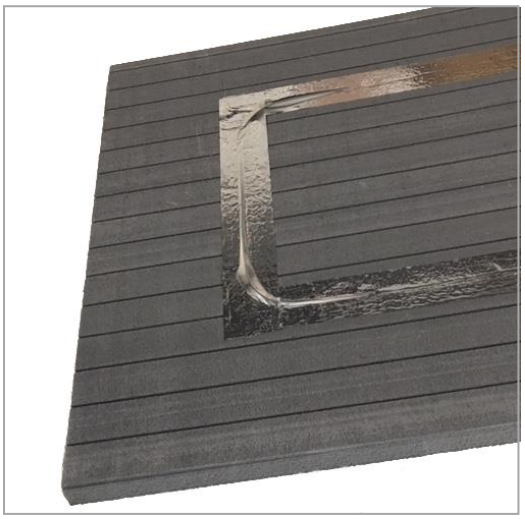
ThermaMod – product information

ThermaMod is the most popular product in the Thermatek® range. It is highly effective at preventing frost heave and condensation beneath cold stores, freezers and cabinets in almost any situation. It is delivered as modular pads, which are tough, long-lasting, fire and moisture resistant, as well as being very quick and easy to fit.

Modular, heated insulation pads



ThermaMod is a low profile, modular system that is ideal for installation in new freezers and cold stores, including those with limited height.

ThermaMod pads are high quality flooring insulation with integrated, low voltage stainless steel heating elements. They are laid on the subfloor with the final flooring directly on top.

Heating is controlled thermostatically via sensors set in one or more of the pads.

Custom product, ready to install

ThermaMod is customised for each installation, with pads and power supply optimised for the size and situation of the cold store or freezer. We supply a complete installation kit, including:

- ThermaMod modules with heating elements and sensors integrated into insulation pads.
  The standard product is 25mm thick; a 13mm version is also available.
- External cold tail cables attached
- Low voltage transformer
- Electronic controls
- Fitting instructions, with scale diagram of the installation and electrical diagram
- Customer maintenance instructions

Unit 5a, Station Yard, Station Road, Hungerford, RG17 0DY
Call +44 (0)1488 684 888 | sales@thermatek.co.uk
Thermatek® is a registered trademark of Safeguard Electronic Systems Ltd.

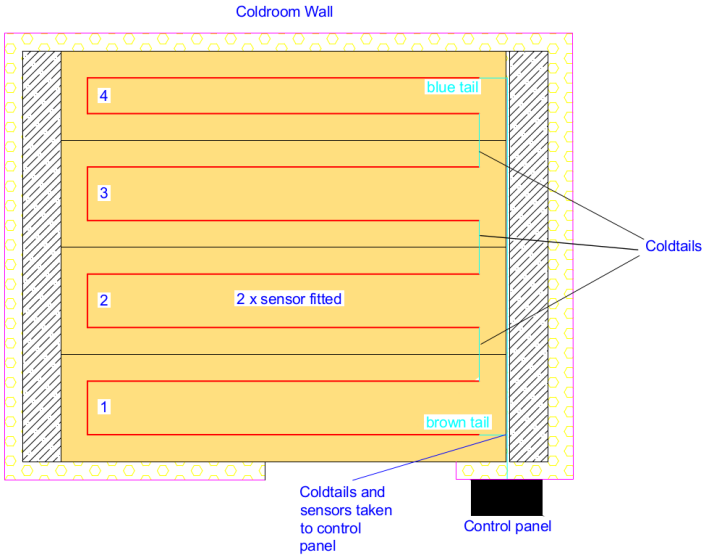
Highly efficient control system

All ThermaMod systems are driven by our innovative control panel. It includes a smart energy system which provides just enough heat to maintain the protective thermal barrier, while minimising energy usage.

The Thermatek control panel has visual indicators to show the system is working properly.
It has connectivity for remote viewing, including interfaces to building management systems.

A typical ThermaMod installation

ThermaMod can be fitted in cold stores or freezers of almost any size or shape, including those where height is limited. The diagram below shows a typical installation with custom-sized ThermaMod pads laid edge to edge, protecting the entire surface area of the sub-floor. The control panel with low voltage transformer is fitted in a suitable position outside the cold store or freezer.



Next steps

To order any of our products or to enquire about our expert design service,
please email sales@thermatek.co.uk or call +44 1488 684 888.

Unit 5a, Station Yard, Station Road, Hungerford, RG17 0DY
Call +44 (0)1488 684 888 | sales@thermatek.co.uk
Thermatek® is a registered trademark of Safeguard Electronic Systems Ltd.

Specification of insulation pads

Properties	Standard	Unit	Value	CE-Code
Cell content			HFC	
Density (typical value)	EN 1602	kg/m^3	40	-
Thermal conductivity declared (λ_D)	EN 13164	W/(m.K)	0,029 [1)]	λ_D
Thermal conductivity for 60 days old foam – mean value at 10°C	EN 12667 EN 12939	W/(m.K)	0,025	λ-mean, 60d
Compressive stress/ compressive strength @ 10% deformation [2)]	EN 826	kPa	400	CS(10\Y)
Tensile strength [2)]	EN 1607	kPa	900	TR
Shear strength	EN 12090	kPa	400	SS
Compressive creep after 50 years ≤ 2% deformation under stress ϭC [2)]	EN 1606	kPa	140	CC(2/1,5/50) ϭc
E-Modulus [2)]	EN 826	MPa	17	
Water vapor diffusion resistance factor (tabulated value)	EN ISO 10456	-	150	-
Long term water absorption by total immersion	EN 12087	%	1,5	WL(T)
Dimensional stability under specified temperature (70°C) and humidity conditions (90%rh)	EN 1604	%	5	DS(70,90)
Deformation under specified compressive load (40kPa) and temperature (70°C) conditions	EN 1605	%	5	DLT(2)5
Capillarity	-	%	0	-
Coefficient of linear thermal expansion (typical value)	-	mm/(m.K)	0,07	-
Reaction to fire – Euroclass	EN 13501-1	-	E	-
Temperature limits	-	°C	-50/+75	-
Dimensions				
Thickness	EN 823	mm	25	-
Width	EN 822	mm	600	-
Length	EN 822	mm	2500	-
Designation Code: XPS-EN 13164-T3-CS(10\Y)400-CC(1,5/2/50)140-DS(70,90)-DLT(2)5-WL(T)1,5-TR900-SS400				

Notes: [1)] Pending certification. [2)] Measured in thickness direction. [3)] 1 N/mm² = 10³ kPa; 1 kPa = 10^{-3} MPa.

The information and data contained in this technical data sheet do not represent exact sales specifications. The features of the products mentioned may vary. The information contained in this document has been provided in good faith, however it does not imply any liability, guarantee or assurance of product performance. It is the purchaser's responsibility to determine whether these products are suitable for the application desired and to ensure that the site of work and method of application conform with current legislation. No license is hereby granted for the use of patents or other industrial or intellectual property rights.

Datasheet May 2018. Specifications October 2017. Supersedes all previous versions and editions.

Unit 5a, Station Yard, Station Road, Hungerford, RG17 0DY
Call +44 (0)1488 684 888 | sales@thermatek.co.uk
Thermatek® is a registered trademark of Safeguard Electronic Systems Ltd.