



Thermatek *The Company To Warm To*

Frost Heave & Condensation Prevention Systems

PRODUCT INFORMATION

Frost Heave Prevention for coldstores

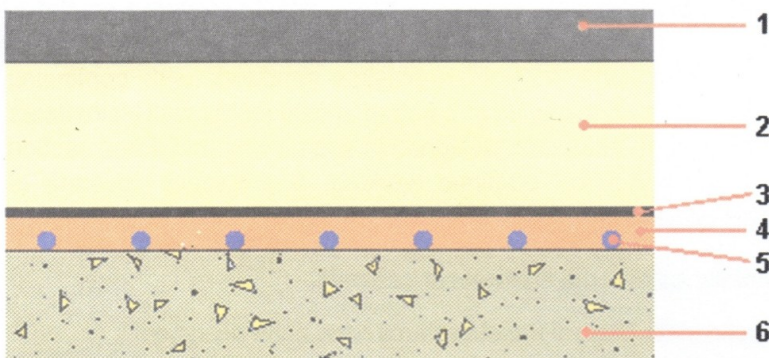
Frost Heave in a coldroom can extensively damage the building structure. To prevent any potential problems Thermatek design and manufacture a range of systems that will protect the area for life. Each system is custom designed to meet the requirements of the coldroom.

Condensation Prevention for coldstores & supermarket cabinets

Cold conditions created by freezers, chillers or cold cabinets will track down through upper floor slabs to create condensation on the ceiling of the floor below. The level of condensation will reflect the temperature variance between floors and the level of humidity on the lower floor.

What is a frost heave or condensation prevention system?

A heat barrier to ensure that the 'zero' isotherm created by the refrigeration process in any coldstore, freezer or chill room, is held in a moisture free layer and denied access to the base concrete where permafrost can occur. The principle also applies to Liquid Petroleum Gas storage tanks & ice rinks.



Example of floor layout

1. Finished floor level minus temperature
2. Insulation layer
3. Vapour seal
4. Screed over heating elements
5. Heating elements
6. Base concrete or upper floor slab

All the systems detailed are a thermostatically controlled heat barrier to ensure the position of the 'zero' isotherm is held within a suitable floor insulation layer where no moisture is present without causing any retrograde effect on the refrigeration equipment.

Every complete system comprises the correct size and shape heating elements with 3 metres of external cold tail cables connected, sensor probes and tubing as required, fixing clips, electronic controls, (either automatic or standard) and low voltage transformer. For ease of installation a scale layout drawing of the system design, electrical circuit diagram and full installation and customer maintenance instructions are supplied.

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