

No crisp snow on Walkers roof this winter

Heat Mat
Ice & Snow Systems



Advanced Ice & Snow
Systems



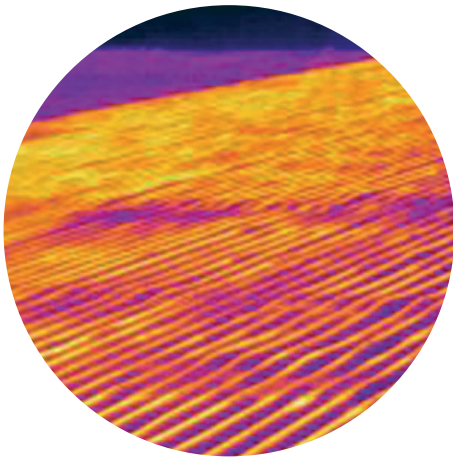
Roof heating
system



Fully programmable
thermostats

www.heatmat.co.uk





The system completely clears the roof without exception...

The Goal

A Heat Mat roof heating system has been installed at Walkers Crisp's factory in Leicester.

Scraptoft Electrical Services Ltd (SES) approached Heat Mat's project department to specify a heating system compatible with the existing roof that will prevent the roof becoming overloaded with snow and risk collapse. Walkers Crisps has been based in Leicester since the 1940's and their site in the city is the biggest crisp factory in the world. The factory processes tons of potatoes every day to make millions of packets of crisps, so keeping the plant open 24 hours a day, 365 days a year is essential.

In order to prevent the weight of snow on the roof directly above the ovens disrupting production, Walkers commissioned SES to install a roof protection system.

Heat Mat's Solution

Heat Mat carried out survey work on the roof with SES and produced an initial specification. Plans were then manipulated in CAD to reflect splitting the roof into 11 zones before installation commenced in September 2016.

The final system was manufactured in Denmark and the UK. Robust exterior 7mm heating cables have been installed in each zone along with Heat Mat's Scandinavian designed moisture

and air temperature sensors. The roof heating was split into five separate systems with independent controls. The size of each section ranged from 31.7sqm to 155sqm with power requirements of 8,529 Watts to 41,645 Watts.

Two sections of roof housing plenum ducts used for air conditioning, extractors and mains cable also required heating to prevent snow damage so these sections were included in the plans.

The surface of the factory roof is made from a triple layer mineral felt coated with Kemperol. Heat Mat obtained a sample of the roof material for testing to ensure the proposed adhesive and 7mm cable would be suitable.

The Result

The roof heating system will prevent the risk of snowdrifts and snow loading on the roof, ensuring production can continue round the clock. Each of the five zones can be controlled as and when required depending on snowfall.

The cables are attached to the roof using fixing strips and external high-grade weather-proof adhesive.

Heat Mat has extensive experience in heating industrial and commercial roofs so this made us the ideal choice for SES and Walkers Crisps.

Project in detail

Date Installed:

September 2016

Location:

Walkers Crisps, Leicester

Client:

SES Electrical

System Specifications:

- 7mm roof heating cable
- Roof fixing strips and weather-proof adhesive
- Automatic monitoring and control equipment including temperature and moisture sensors

Project Support:

Once the install by SES is complete, Heat Mat's project manager will return to the site to assist with commissioning the system and connecting up the sensors and control gear.

Contact Heat Mat's project team on 01444 247020 or email projects@heatmat.co.uk

About Heat Mat

With more than 1,200,000m² of underfloor heating installed and over 20 years' experience of the UK underfloor heating market, you can rely on Heat Mat to understand your needs and supply the products to satisfy your requirements. This is why we are the Professional's Choice, the number one underfloor heating supplier to the professional installation market.



Contact us

01444 247020

sales@heatmat.co.uk

www.iceandsnowsystems.co.uk

or www.heatmat.co.uk

Heat Mat

Ice & Snow Systems

Heat Mat Limited, Ashwyn Business Centre, Marchants Way, Burgess Hill, West Sussex, RH15 8QY