



**Halsall**  
Mechanical & Electrical

**HEATMAT**  
ICE & SNOW SYSTEMS

## Snowdrift mitigation for a luxury car manufacturer



Bespoke  
ice & snow systems



Protection against  
snowdrift buildup



Fully automated  
control



An automated system to mitigate against snowdrift buildup

## The Goal

A luxury car manufacturer in North West England was expanding their premises which required building a new warehouse beside an existing one.

The new building was constructed abutting an existing, lower structure, and due to the additional height of the walls of the new warehouse there was a risk that snowdrifts could now build up on the existing roof. This roof was not reinforced to the level to cope with the weight of the potential snowdrifts.

The cost and disruption of structural reinforcement to the existing roof to strengthen it was prohibitive, so Heat Mat were approached to design a snowdrift mitigation system to reduce the risk of snowdrifts building up and adding significant weight to the roof.

## Heat Mat's Solution

The client provided details of the highest risk areas for snowdrift build up and this provided focused areas to protect. Heat Mat carried out a site visit to assess the most suitable heating cables to use with the roof structure and also to decide on the most appropriate fixing method.

There was limited power available on site and a very large area to heat, therefore a constant-wattage heating cable was chosen over trace heating cables to keep within the power requirements.

Custom-length snow-melting cables were manufactured to accurately cover the required areas and, working with the installers, a unique form of fixing method was specified to simplify installation on site.

Twenty sections of roof were heated and each section had its own controller operating with moisture and temperature sensing for automatic control. Heat Mat carried out a full commissioning visit including sensor testing and thermal imaging survey to sign off the project.

## The Result

Within weeks of the system being installed, and prior to final commissioning and sign-off, significant snow fell in the Crewe area.

The system automatically kicked in melting all snow in the heated areas and performing exactly as designed.

## Project in detail

### Date Installed

2025/26

### Location

Crewe, England

### Client

Luxury car manufacturer

### Main contractor

Halsall Mechanical & Electrical

### Installer

FluidTek

### System Specifications

- Custom snow-melting cable to protect 20 zones totaling 390m<sup>2</sup>
- Proprietary roof fixings and specialist adhesives
- Automatic monitoring and control equipment including temperature and moisture sensors



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## About Heat Mat

Heat Mat is part of the Heatcom group of companies, one of Europe's largest underfloor heating manufacturers. With Heat Mat's 25 years' experience of the UK underfloor heating market and a wealth of knowledge on Scandinavian ice and snow melting systems, you can rely on Heat Mat to understand your needs and supply the products to satisfy your requirements.

This is why we are the Professionals' Choice, the number one supplier of electric underfloor heating and ice and snow melting systems to the UK's professional installation market.

## Contact us

01444 247020

[tech@heatmat.co.uk](mailto:tech@heatmat.co.uk)

[www.heatmat.co.uk](http://www.heatmat.co.uk)

[www.iceandsnowsystems.co.uk](http://www.iceandsnowsystems.co.uk)

**HEATMAT**  
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Heat Mat Limited  
3 Danworth Farm, Cuckfield Road,  
Hurstpierpoint, West Sussex, BN6 9GL

