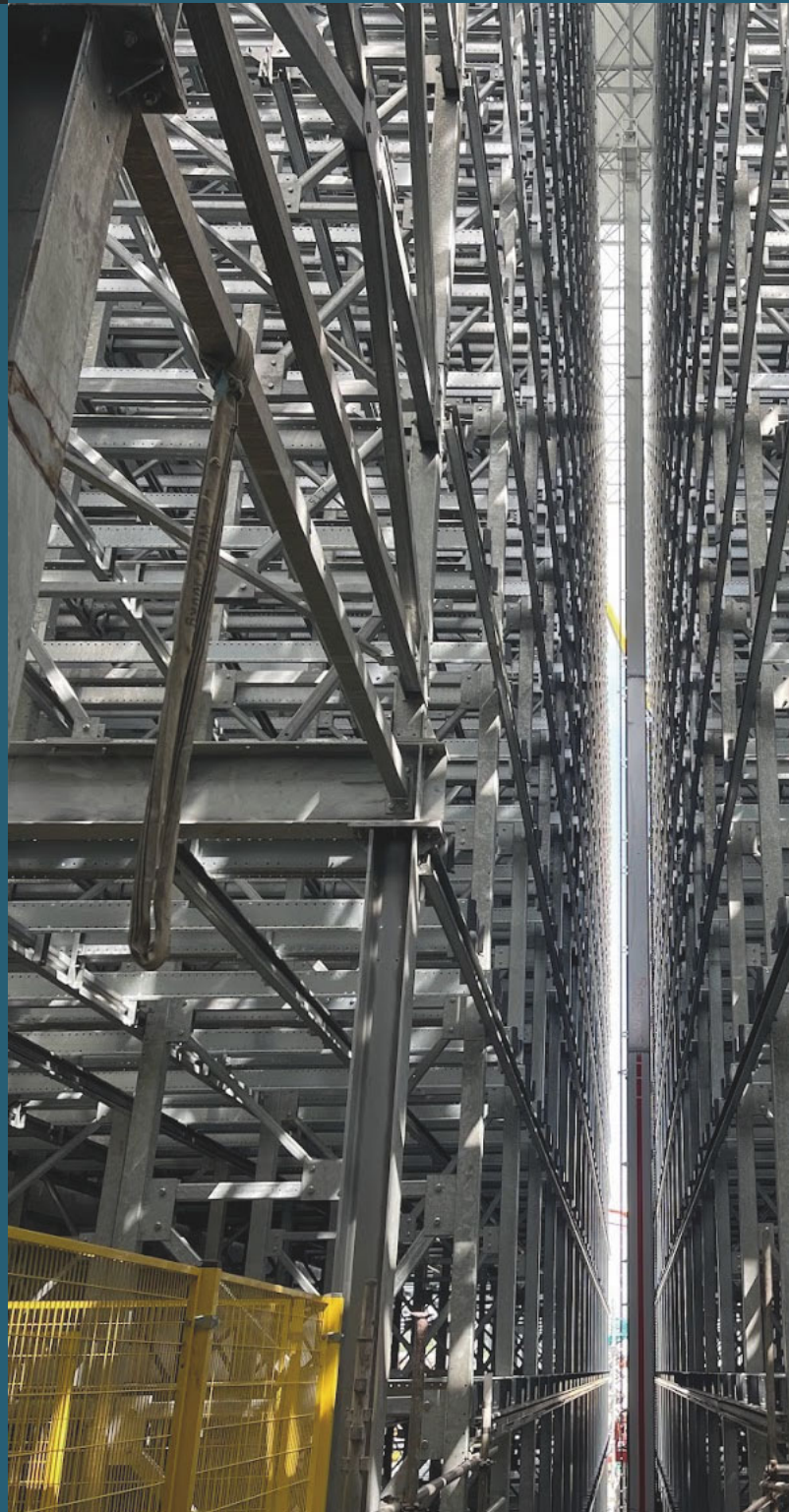


# COLD, CERTIFIED, COMPLIANT.

Ciqurix provides next-generation fire detection for the UK's largest fully-automated frozen storage facility.

## SUMMARY

The largest single cold store ever built in the UK has recently been completed. Designed with a commitment to sustainability and operational efficiency, it has over 100,000 pallet spaces, features advanced automation, and measures 200m long and 45m high. The Ciqurix CORE video flame detection system was chosen to provide reliable fire detection in sub-zero temperatures while ensuring full regulatory compliance.



## CHALLENGE

Traditional fire detection methods such as aspirating smoke detection often fail in sub-zero environments due to blocked pipework, condensation, and ice formation. This facility also features tall automated racking and dense storage patterns, complicating access for installation and maintenance. Built using a pre-fabricated clad-rack design where the racking forms the building's structure, it further limits routes for cabling, pipework, and service access. The project team needed a fire detection solution that would operate effectively at sub-zero temperatures, offer precise alarm location, and integrate seamlessly with their overall fire safety strategy.



**DETECT MULTIPLE  
FIRES IN SECONDS**



**ALL LIGHT LEVELS  
- DAY & NIGHT**



**BOTH INDOORS  
& OUTDOORS**



**SEE FIRE AT UP TO  
180 METRES**

## SOLUTION

The electrical contractor for the project collaborated with Ciqurix to deliver a video flame detection system based on the CORE platform. The installation includes 60 ZeroFP long-range video flame detectors, designed to function at temperatures down to  $-40^{\circ}\text{C}$  and detect flame at distances up to 180m. The detectors are strategically positioned throughout the warehouse to ensure full coverage, with each device connected to one of 11 control hubs using fire-resistant cabling. The system is linked to the site's fire alarm panel network for immediate, pinpointed alerts.

## RESULTS

Since installation and commissioning, the system at the site has delivered fault-free operation with no false alarms, and passed all tests. The installer, developer, and site operations team have praised its reliable performance and straightforward maintenance. The success of this project has strengthened the site operator's fire safety strategy across its wider network of frozen and chilled storage facilities, setting a new standard for future developments.

**CERTIFIED UNDER  
BAFE SP203 TO  
BS5839-1**

**RESPONSE TIME OF 8  
SECONDS TO TEST  
FIRE AT 120M**

**ZERO FALSE  
ALARMS SINCE  
INSTALLATION**

**INSURANCE  
COMPANY  
APPROVED**

