

Pushing the envelope for ASRS



Cladding a £130m facility to create the UK's tallest high-bay freezer warehouse

Meeting the client need

When Magnavale asked us to support them with their new giant freezer warehouse in Lincolnshire we were only too happy to oblige.

This has turned out to be our largest project to date. The facility itself stands at over 150 metres long and 100 metres wide and is part of the latest generation of warehousing stock to meet the UK's shortfall in frozen storage capacity, made clear following Brexit and the Covid pandemic.

We deployed our special projects team, providing many decades of experience in cold stores and high-bay warehouses, to design and install external cladding for the clad-rack facility and adjacent buildings.



ISD's solution

The facility required us to install almost 60,000m² of composite Kingspan Cold Store quadcore panel and 18,500m² of floor insulation, incorporating high density thermal blocks to support the building structures.

We also designed the facility's low-bay freezer envelope, split over three mezzanine levels and standing at 24m high. The completed project includes 28 conveyor airlocks, each with two rapid roll airtight doors to minimise hypoxic air loss, with a further 28 fire rated shutters for fire compartmentalisation.

Meanwhile 20 loading dock pods each feature inner dock freezer rapid action doors, with strict humidity controlled via a bespoke dehumidification system.

How we delivered

All elements had to be delivered and constructed within a footprint restricted on all sides, presenting logistical and storage challenges.

Safely installing the freezer envelopes at up to 47m height, within 3.5m of adjacent working buildings, whilst avoiding disruption to their operation, took a great deal of careful and highly co-ordinated logistical planning between all of the main trades.

However we drew on our experiences to overcome the logistical challenges, managing the scale of the buildings to successfully complete the installation to exceptional standards and with minimal disruption to the site.



From our satisfied customer

"Once in operation, in late 2024, we expect that the Easton development will transform frozen storage and value-added capabilities across the UK, allowing our partners to cut unnecessary cost, risk and complexity within their cold chain.

"With their professionalism and expertise, frankly they put the competition to shame. It's rare to find a company who exceeds your best expectations. We thank the team from ISD Solutions for their exceptional work on this project and we look forward to working with them again in the future."

[Jonathan Gagg, director at Magnavale's parent company Sadel Group]



isd-solutions.co.uk
sales@isd-solutions.co.uk

