

CASE STUDY T01 – THERMAL REPLACEMENT

BIRDS EYE, LOWESTOFT

9 no. THERMASTER / 1 no. THERMASPEED

This 3 Dock Loading Bay in Birds Eye's -22degC cold store was previously equipped with solid panel vertical lifting cold store doors, and suffered from significant ice and snow build-up on the floor, walls and ceiling, as shown in image 1 below.



Image 1 – old solid panel sliding doors



Image 2 – new Thermaster high speed doors

Following a competitive tendering process involving three rapid roll door manufacturers, **Thermaster** high speed freezer doors from SAFE-door Industries Ltd were selected as part of an upgrade to the Lowestoft facility.

The **Thermaster** twin curtain high speed door opens and closes at up to two metres per second and provides a highly efficient seal to all four sides of the opening. The air between the fabrics is conditioned to ensure that an effective thermal barrier is maintained between the two curtains and therefore acts as the insulation.

In addition to this, a trace heating system is integrated into the door frame which ensures that the door structure is thermally broken and eliminates any possibility of ice build-up in the door legs or head.

Since the initial batch of doors was installed, the Birds Eye engineering team were quickly impressed with the performance of the doors, and how they assisted with the clearance of ice and snow in the store, as shown in image 2 above. Birds Eye have since ordered additional **Thermaster** and **Thermaspeed** doors for their raw production freezers and airlocks.