

Case Study

Nine Jewers Swift Doors Ensure Integrity of New Elizabeth Line OMC Depot

SUMMARY

Overview

Industry: Railway depot
Solution: Swift SEW fast-acting, bi-folding doors with integral OLE cutout

Benefits

- Accommodates OLE cables and railway lines.
- Fully open in under 8 seconds
- Fail-Safe security features to prevent injury during operation
- Fully insulated for thermal efficiency and noise reduction



About Jewers Doors Ltd

Jewers Doors is a world-leader in the design, manufacture, installation and repair of industrial doors across all industrial sectors.

Jewers Doors have been installed not only in the UK, but also throughout the world including Europe, Middle and Far East and New Zealand.

Specialist industrial door manufacturer, Jewers Doors, has installed eight of its latest Swift- SEW and two smaller Swift horizontal bi-folding doors at Transport for London (TfL)'s new Operations, Maintenance and Control (OMC) depot for the Elizabeth line at Old Oak Common, West London.

The Challenge

In addition to securing the building, there were a range of practical issues that were critical in the design of these doors. The major factor was accommodating live overhead electrification lines (OLE) which meant vertical opening doors would have been impractical. These were eight extremely large openings so effective thermal and acoustic insulation was important for the doors to ensure compliance with TfL's strict environmental requirements.

Swift SEW Doors

Nine Swift-SEW bi-folding doors, specifically designed for the rail industry were installed. Each door is 4 metres wide and 6.6 metres high, comprising four highly insulated, single piece composite panels, with two leaves folding to each side when open. An 850mm x 760mm cut out in the door allows an OLE cable to pass through the closed door. The cut out is lined with 9mm thick safety matting tested to 30kVA to prevent bird entry along the cable and for additional safety, the door is then earthed back to the structure with suitably rated earth bonding braids.



Speed, Safety and Security

The doors are operated by a powerful, centrally mounted SEW drive unit, combined with a purpose designed control panel incorporating inverter control for smooth start and stop and takes less than eight seconds to open fully. Safety is ensured with full height pressure sensitive safety edges and photocell beams to create a safe zone around the door during operation. An electro mechanical lock within the motor automatically holds the door in the closed position while automatic solenoid floor bolts provide additional security and protect against high winds.



Do you need a full inspection report on an old or failing door or a professional company to survey openings and quote a price for new doors?

Jewers Doors are a DHF accredited company and operate under strict guidelines to advise on the best and safest solution for each application and provide an expert service that is second to none.

For further information e-mail Mark Jewers mjewers@jewersdoors.co.uk