

Case Study

Jewers Doors Secure Hitachi's Doncaster Maintenance 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 10 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 five of its latest Swift SEW automated sliding bi-folding doors at Hitachi Rail Europe's (HRE) new £80m maintenance depot for the Intercity Express Programme (IEP) trains at Doncaster.

The Challenge

As well as securing the building, the practical issues of accommodating live overhead electrification lines (OLE) and rail tracks had to be taken into account. These were extremely large doors with many factors including thermal and acoustic insulation, resistance to wind, operational safety and security to be incorporated into the design.

Swift SEW Doors

Five 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 recently developed high power, centrally mounted SEW drive unit, which incorporates 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