



By Appointment to
Her Majesty the Queen
Manufacturers of Access Equipment
Clow Group Ltd.



Clow Group Ltd

Network Rail Projects

•Engineering •Fabrication •Access Divisions

Company Profile

Established in 1913, Clow Group Ltd. has since witnessed considerable expansion and is now the largest privately owned manufacturer of ladders and access equipment in the UK, with branches nationwide. Clow Group specialises in the design, manufacture and installation of bespoke fabrications in particular, access and maintenance systems.

Clow Group gives innovative and cost-effective solutions to any manner of access or design problems and offers a complete in-house service, which includes the following:

- Submission of Drawing & Quotations
- CAD Design
- Calculation of Loadings
- In-House Production
- Delivery & Installation
- Testing & Commissioning
- Repair & Maintenance Contracts
- Site Safety Inspections & Surveys

Our in-house team of Surveyors, Design Engineers and Maintenance Engineers are always available to carry out site safety inspections, surveys, refurbishments, repair and maintenance work. Clow Group operates a quality management system in compliance with the requirements of BS EN ISO 9001:2008.

Specialist Fabrications



Clow Group Ltd. undertakes the most specialised of commissions, from one-off fabrications to multi-million pound contracts. All fabrications are purpose built to exacting standards. The fabrication range is extensive, however fabrications tend to be based on one of more of the following core products:

ROOF ACCESS SYSTEMS

- Walkways
- Mobile Safety Cages
- Mobile Gantry Ladders
- Safety Track Systems
- Fall Arrest Systems

STRUCTURAL ACCESS & MAINTENANCE SYSTEMS

- Access Platforms
- Access Cradles
- Bridge Access Systems
- Maintenance Ladders & Steps

All of our systems come complete with specific operation and maintenance manuals.

Complete Roof Access System Central Station, Glasgow

Clow Group recently undertook the design, fabrication and installation of a complete roof access system for the architecturally award winning Glasgow Central Station. Over 1,300 tonnes of aluminium were installed as part of a £35m restoration project for Glasgow Central Station.



The specification of the project was to provide safe access to all vertical and sloping surfaces of the roof for cleaning and maintenance, whilst adhering to stringent safety regulations.

The system employed incorporated access cradles, gantries, handrails and over 5.6km of hinged open tread access walkways. Gantries, sliding ladders and mobile safety cages were designed to run smoothly on the safety track.

Complete Roof Access System Waverley Station, Edinburgh



Clow Group was commissioned to undertake the design, fabrication and installation of a complete roof access system at Waverley Station, Edinburgh.

The system had to be unobtrusive, as the glazed roof could be seen from Princes Street and the nearby North Bridge. To avoid installation of a handrail system, Clow Group installed the Mobile Safety Cage system, which runs smoothly along safety track, allowing the operative to traverse the roof both quickly and safely.

Additional features of the roof access system include walkways, rolling gantry ladders, safety cages and safety track.

Powered Maintenance Gantry Scotrail Bridge, Glasgow

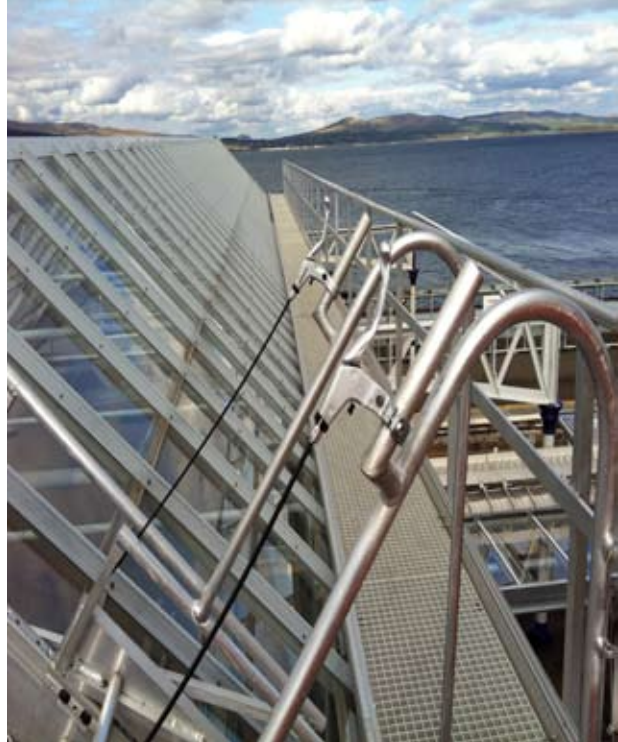


Clow Group was commissioned by Scotrail to design and manufacture a powered gantry with 3-dimensional movement. The purpose of the gantry was to provide access and maintenance for the rail-bridge over the M80 in Glasgow.

Running rails were installed under the top truss to enable the gantry, with its suspended cradles, to travel longitudinally over the full 100m. The gantry also operates horizontally through the sides of the warren truss. Suspended cradles operate on the outer-face of the truss.

The cradle can also be lowered internally to maintain inside faces of Warren Truss, however a fail-safe device was installed to prevent the cradle being lowered into the train envelope. The design, installation and electrical control circuits was all carried out by Clow Group Engineers.

Gourock Railway Station Gantry Access Systems



Clow Group were commissioned to design, fabricate and install Telescopic Inverted 'V' Gentries and walkways at Gourock railway station.

Installation of an access system post roof completion to access glazing which is not only tapered, but also ran un-parallel.

Roof Access System Paddington Railway Station, London



Clow Group undertook the Installation of roof access walkways and overhead bridging walkways, as part of a major refurbishment of the roof at Paddington Railway Station, in 2011.

Working in conjunction with English Heritage to design an advanced access system whilst increasing functionality and reducing visual impact compared to that of the original listed structure.

Maintenance Gantry Gainsborough Bridge



Clow Group was commissioned to design, fabricate and install a gantry under the Gainsborough Rail Bridge.

The Warren Truss gantry was fabricated in a combination of steel and aluminium and is suspended from parapet of the bridge, giving access to all structural members beneath the bridge. The steel gantry is suspended from the top chord of the bridge and traverses the full length of the bridge

Suspended from this steel gantry is an aluminium gantry, which can project out from the underside of the bridge to give access to both sides of the outside vertical faces of the bridge.

Network Rail Projects

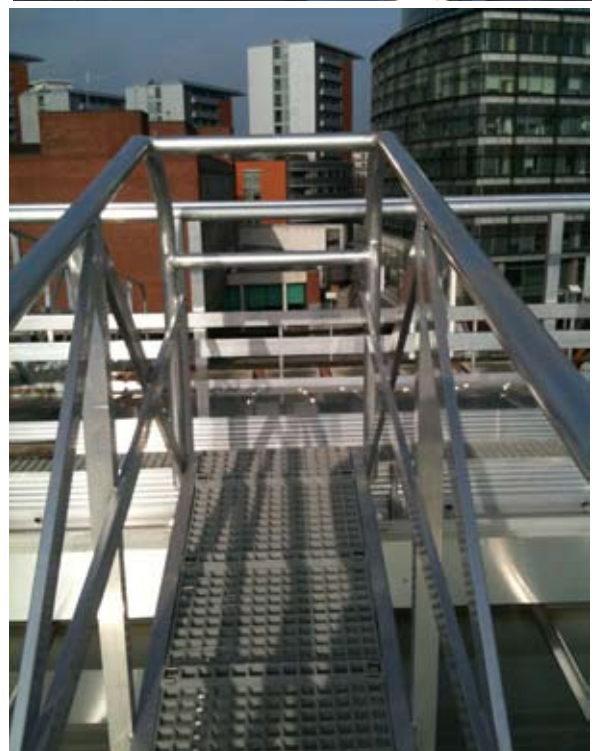
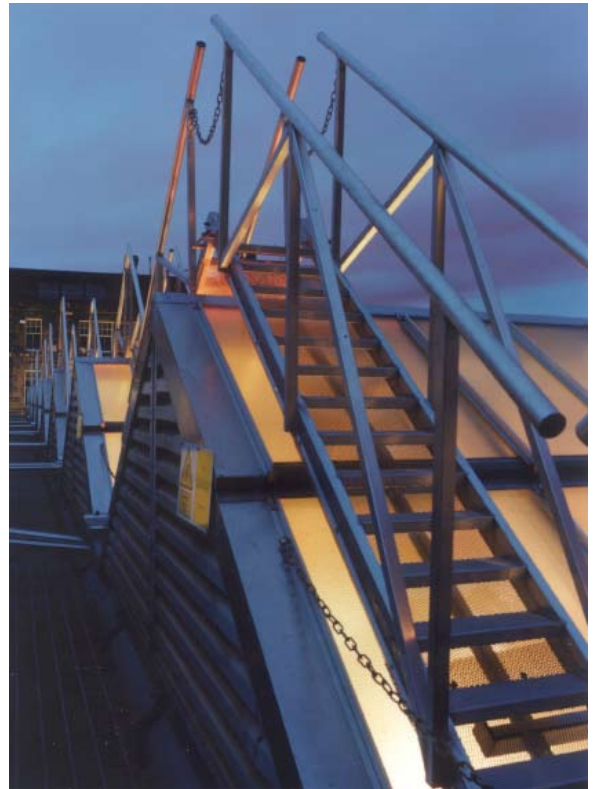
Clow Group has carried out a wide range of projects on behalf of Network Rail. Details of some of projects undertaken include the following:

Station Work

Paddington Station, London
Gourock Station
Linlithgow Station
Chester Station
Victoria Station, Manchester
York Station
Gourock Station
Carlisle Station
Newcastle Station
Preston Station
Central Station, Glasgow
Queens Street Station, Glasgow
Waverley Station, Edinburgh
Dalmarnock Station, Glasgow
Dundee Station
Aberdeen Station
Inverness Station
Helensburgh Station
Ayr Station
Milngavie Station, Glasgow

Rail Depots

Haymarket Depot, Edinburgh
Craigentinny Depot, Edinburgh
Inverness Depot
Polmadie Depot, Glasgow
Aberdeen Depot



Maintenance & Inspection of Roof Access Equipment

Inverness Station
Dundee Station
Aberdeen Station
Paisley Gilmour Station
Waverley Station
Glasgow Central

Aluminium Signal Cabin Stairs & Landings

Forres, Moray
Elgin, Moray
Keith, Moray
Kennethmont, Aberdeenshire
Aviemore, Highlands
Blair Atholl, Perthshire
Insch, Highlands
Forth William, Highlands
Inverkeilor, Angus
Annan, Dumfriesshire
Holywood, Dumfriesshire
Tay Bridge, Dundee
Mauchline, Ayrshire
Dunblane, Stirlingshire
Longannet, Fife

Design Work for Network Rail

Lime Street Station, Liverpool
Waterloo Station, London
Marylebone Station, London
Chester Station
Darlington Station
Crewe Station
Darby Station

Bridge Access Systems

Forth Rail Bridge
Tay Bridge
Gainsborough Bridge
Scotrail Bridge, Glasgow



**Whatever
your fabrication problem
we can solve it.**

Glasgow

Fabrication & Engineering Division

Clow Group Ltd., 185 Broad Street, Glasgow, G40 2QR

Tel: 0141 554 6272 Fax: 0141 551 0813

Email: enquiries@clowgroup.co.uk

Midlands

Access Division

Clow Group Ltd., Garrats Lane, Oldhill, Cradley Heath, B64 5AW

Tel: 0121 559 5222 Fax: 0121 559 0330

Email: enquiries@clowaccess.co.uk



Clow Group Ltd