



# caunton

ENGINEERING



Steelwork for

# Commercial



Snowhill, Birmingham

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Caunton Engineering is one of the UK's leading steelwork contractors, fabricating in excess of 40,000 tonnes per annum with a turnover in the region of £100m. Supported with over 50 years' experience we specialise in the design, fabrication and erection of structural and secondary steelwork, operating across all sectors of the construction industry.

Caunton Engineering's reputation is for engineering excellence in the Commercial sector and working with Consulting Engineers on major developments.

We pride ourselves on our ability to remain agile and, as a result, offer a personalised service to our clients. The company is a Gold Status holder within the Steel Construction Sustainability Charter and is committed to delivering Net Zero by 2050.

## The Hub Victoria - London



Caunton Engineering supplied and erected the steelwork for the vertical extension to two office blocks in London's Victoria. The two buildings, that span over some of London's busiest railway lines, are both being enlarged with new steel-framed floors.

All of the steelwork was lifted into place by the site's three tower cranes. It was erected in a grid pattern that matched the existing columns below and consists of primary and secondary cellular beams, used for service integration supporting a concrete slab with metal decking to create a composite flooring solution.

The majority of the steelwork package was a vertical extension, with connections being made to the existing roof through the concrete slab. Off-loading and accessing the new frame was also extremely challenging given that the majority of the existing services were still in place and live.

**Client:** GAW Capital  
**Main Contractor:** McLaren Construction  
**Engineer:** Peter Dann Consulting Engineers  
**Architect:** Morrow + Lorraine  
**Tonnage:** 1,400 tonnes

Erection of the rooftop steelwork had not been straightforward as the existing plant, such as chillers, were in use and needed to be kept operational throughout the project. The new steel had to be erected around the existing plane, and once a new three-storey element was completed, the plant was relocated to new rooftop positions, freeing up those areas for the new construction to begin.

Further steelwork was erected at ground floor level to create five retail units. The original buildings had a 5m-deep overhand starting a level one, sheltering some of the pavement along the main road. This overhang was infilled with new steelwork forming shopfronts that are flush with the building above, enhancing public realm along Buckingham Palace Road.

## Brazennose House - Manchester

Caunton supplied over 1,200 tonnes of beam and column framing for a new 102,000sq.ft, 6 storey Grade A office building, the redevelopment of Brazennose House, in the heart of Manchester. The building is the centrepiece of a new regenerated Lincoln Square, linking Manchester Town Hall and Deansgate. It will have a roof terrace and retail units on the ground floor. The main steelwork is engineered by the Manchester office of Ramboll UK and the connections designed by the Caunton technical team.

The steelwork for this new office block comprises a beam and column framework for the building's six storeys and roof, together with a metal deck floor and edge protection, a barrier to the car park ramp and cast-in plates.

Caunton are very pleased to have contributed to the rejuvenation of this part of Manchester.



**Client:** Marshalls CDP  
**Main Contractor:** Marshalls Construction Ltd  
**Engineer:** Ramboll (UK)  
**Architect:** Jon Matthews Architects  
**Tonnage:** 1,295 tonnes



# LIDL Head Office - Tolworth, London



**Client:** Lidl GB Ltd  
**Main Contractor:** Winvic Construction  
**Engineer:** RPS  
**Architect:** UMC  
**Tonnage:** 1,400 tonnes

Caunton Engineering was awarded the contract for the structural steelwork for the new Lidl GB Head Office by major contractor Winvic Construction. The new, £70 million head office, located in Tolworth, south, west London is five miles away from Lidl's previous HQ in Wimbledon and was completed over a two-year period. With 250,000sq.ft of office space, the building accommodates the retailer's 800 head office employees, as well as providing support for its growing network and 13 warehouses across the country.

Erection of the steel frame required over 1,400 tonnes of steelwork for the five storey framework. Situated adjacent to the A3, the building's structural frame measures 112m-long x 43.8m-wide and gains its stability from concrete cores. Open-plan offices are created on all floors with long span beams with the longest measuring 15.2m-long. Overall, Caunton erected 5,174 individual steel pieces for the project, with the heaviest member weighing 13.8te.

## Shepherds Bush - London

Caunton have been involved in an exciting project to extend and elevate a Grade II building, by including a three storey addition and a outstanding new glazed roof. Caunton have supplied the steelwork for the three-storey extension and the means by which the glazed roof is connected.

184 Shepherds Bush Road was built in 1916 and is famous for formerly being a Ford and Citroen garage and showroom. Work was to convert it into a high quality office space. Caunton was contracted by main contractor McLaren Construction and supplied and erected three storeys of steelwork to sit on and above the existing building - which was already stripped out. The roof was supplied by Austrian company, Seele. The connections system between the two companies steelwork was sensitive and exacting tolerance and required close cooperation between the two companies surveying and Caunton's site plating and welding team - this proved most successful.



**Main Contractor:** McLaren Construction  
**Engineer:** Campbell Reith  
**Architect:** Collado Collins  
**Tonnage:** 600 tonnes

## Aldi Head Office Development, Phase 2 - Atherstone



**Main Contractor:** DSP Construction Management  
**Engineer:** Craddys  
**Architect:** Stoas Architects  
**Tonnage:** 400 tonnes

Caunton Engineering have supplied the structural steelwork for the office block for major German discount store, Aldi. This is the second phased of Aldi's £70 million investment at their Atherstone, Warwickshire Headquarters.

The steelwork itself for the two-storey office block comprises of over 400te of mainly cell beam and column structural framing and also includes a Galvanised Plant Enclosure and a Glazed Entrance Box.

We have worked directly for DSP Construction Management on this project. The steelwork design is by Bristol-based consulting engineer Craddys, with Caunton designing the connections.

Caunton are delighted to be providing steelwork for such a successful company.

# Snow Hill 2 Building - Birmingham



The development, comprising 43,000m<sup>2</sup> of office space, is known as Snowhill 2 and is the taller sister building, at 17 storeys, to the 15 storey office block known as Snowhill One.

Caunton supplied 2,000 tonnes of structural steelwork, together with metal decking and shear studs. The building has 3 concrete service cores already constructed which provide overall stability. Connection is via cast-in plates.

The building, which is in the heart of Birmingham's commercial district, is located conveniently alongside the historic Snowhill railway station, which is the terminus for the popular Chiltern Railways service from London Marylebone.

**Client:** Hines Plc.

**Main Contractor:** Balfour Beatty Construction

**Engineer:** Curtins Consulting Engineers

**Architect:** Weedon Partnership Architects

**Tonnage:** 2,00 tonnes

## ARM building - Peterhouse Technology Park

In the Peterhouse Technology Park on the southern outskirts of Cambridge, ARM, the multinational semiconductor and software design company, expanded its headquarters with the construction of a 1,900m<sup>2</sup> office facility. The three-storey facility consists of two similar buildings, known as ARM A and B, that are inter-connected by a first floor walkway bridge.

The two steel-frame structures are similar in design with the only major difference being that ARM A measures 85m-long x 55m-wide, making it 6m longer than ARM B. Stability for the steel frames is derived from their braced cores, with both buildings having a main centrally positioned lift core and smaller stair cores at either end.

Steel erection initially began on ARM B as groundworks were still ongoing on the other part of the site. However, within a couple of weeks Caunton Engineering was able to work simultaneously on both buildings using up to four mobile cranes. Either side of the main lift cores, both buildings feature atriums that are spanned by roof lights which created voids that allow natural light to penetrate the inner parts of the buildings.



**Main Contractor:** Kier

**Engineer:** Ramboll UK

**Architect:** Scott Brownrigg

**Tonnage:** 1,500 tonnes

## Other Commercial Projects Include:

- Unit C Routeco Business Park - Milton Keynes
- Eurocentral Business Park, Glasgow
- Rainton Bridge South Business Park
- Unilver Headquarters - Leatherhead
- Cobalt Business Park - Tyneside
- City Walk, Sweet Street - Leeds

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