



**caunton**  
ENGINEERING



Steelwork for

# Leisure



The Curve, Slough

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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 Leisure 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 Curve, Slough



Caunton completed the frame for The Curve, the civic building in Slough. As the name suggests the structure is a steel-framed curved rectangle shape. Each of the building's elevations feature either cantilevers or sloping and curving façades, with the main north side presenting the most striking aspect with a long sweeping, predominately glazed, elevation looking on to the adjacent listed St. Ethelbert's Church.

The three level building is 89.7 metres long, 15.5 metres high and has a width which is 16.5 metres at its maximum and 8.7 metres at its narrowest. With an overall floor spaces of 4,500m<sup>2</sup>, the centre will include a library, café, office space and a 280 seat performance space.

**Main Contractor:** Morgan Sindall  
**Engineer:** Peter Brett Associates  
**Architect:** Bblur Architecture  
**Tonnage:** 400 tonnes

## Platinum Jubilee Leisure Centre - West Drayton

Caunton are pleased to have supplied the structural steelwork for a new and impressive leisure centre for main contractor, Buckingham Group Construction. The platinum Jubilee Leisure Centre at West Drayton, will house a whole range of facilities, which includes a 25 metre swimming pool and a rooftop 3G turf football pitch.

The leisure centre is one large braced steel frame, but for design purposes it can be divided into three separate parts; the main swimming pool area, the changing rooms and the sports hall and the main entrance and office zones. Stability is provided by strategically positioned cross bracing working in conjunction with the diaphragm action of the completed floors.



**Main Contractor:** Buckingham Group  
**Engineer:** Buro Happold  
**Architect:** Hunters Architects  
**Tonnage:** 650 tonnes

## York Community Stadium Leisure Complex



**Main Contractor:** Buckingham Group  
**Engineer:** Arup Group Ltd  
**Architect:** Holmes Miller  
**Tonnage:** 3,000 tonnes

Caunton were awarded the contract for a £46 million community stadium, cinema and leisure complex in York by main contractor Buckingham Group.

The stadium comprises of four stands and now has a capacity of 8,113 seats. Adjoining the stadium is the leisure complex, which now includes a cinema, 25 metre pool, sports hall, gym, adventure sports zone and three 3G pitches. A community hub houses health and well-being services for York residents and visitors, including clinical service and a new explore library.

Caunton have designed and supplied over 3,000 tonnes of steelwork for this development.



# Leicester Tigers Hotel



**Client:** Marshall CDP  
**Main Contractor:** Marshall Construction  
**Engineer:** Cundall  
**Architect:** BMS  
**Tonnage:** 750 tonnes

Known as the Hotel Brooklyn, the six storey building has 191 guests rooms located on the upper four floors, while the ground floor level is predominantly taken up by a car park and retail units. Sandwiched in between, the first floor of the hotel will boast 3,300m<sup>2</sup> of reception, lounge and dining areas, as well as a business centre and lobby areas. This floor is directly connected to the Leicester Tigers rugby ground's Holland and Barrett stand via a 28 metres long curved pedestrian bridge. This was assembled onsite and then lifted into place as one 28 metres long curved structure. Although it ties into both the new hotel and the existing grandstands, the bridge is an independent structure, Supported by four columns.

Caunton also fabricated, supplied and erected the steel for the construction of the grandstand back in 2009, Mimicking the design of the grandstand, the front of the atrium, at the widest

point between the two hotel wings, features a large glazed façade. The glazing is supported by a series of 20 metres long by 1.5 metres deep horizontal curved trusses that spans between the wings. With the glazing positioned externally to the trusses, these steelwork elements help the façade resist wind loadings. These are left exposed within the completed project and are suspended from the roof via two CHS hangers.

## Water Polo Structure

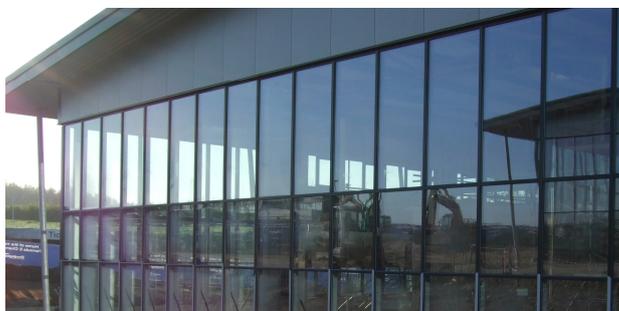
Caunton are proud to supply the steelwork frame for the London Olympics Water Polo Arena. Working for ES Global, renowned experts in the provision of bespoke, temporary structures, the company supplied around 500 tonnes of fabricated and painted steelwork for ES Global to then erect on the Olympic Site. The temporary venue contained 37 metres long competition pool and a slightly smaller warm-up pool and will stage both the men's and the women's water polo.



The arena was located at the entrance to the Olympic Park, next to the Aquatics Centre.. After the games the venue was taken down, with elements reused elsewhere in the UK, promoting reuse and reduction of materials. Caunton are delighted to have been involved in such a sustainable project.

**Client:** Olympics  
**Main Contractor:** ES Global Ltd  
**Engineer:** Momentum Engineering Ltd  
**Tonnage:** 445 tonnes

## Western Paddock - Donington Park



**Main Contractor:** Vinci Construction  
**Engineer:** Pick Everard  
**Tonnage:** 250 tonnes

Caunton fabricated, supplied and erected 8 buildings at Donington Park, as the headquarters for Formula E.

The project consists of 6 single span portal frame structures, measuring 42 metres by 15 metres. The buildings are divided in half with the internal partitions to form workshops for the Formula E teams. A further two similar sized steel structures were also built, one divided into a workshop and offices for Formula E and the other is used as an administrative headquarters by Donington Park Racing.

All of the materials met the 'Very Good' BREEAM rating and in total 250 tonnes of steelwork was required by main contractor Vinci Construction UK.

# ODA Royal Artillery - Woolwich

Caunton supplied the steelwork for the demountable structures for the London 2012 Olympics, Shooting Venue. There was in fact three enclosed ranges and three open air ones.

The largest structure was 26 metres high. Its distinctive design - with two fabric skins built around a steel structure - helped with ventilation and allowed the temperature to stay constant. The pushed put rings were used to tension the external envelope - which were designed to give the striking architectural appearance of "bullet holes" in the external structure. This project was manufactured at Caunton's Nottinghamshire works and was erected by ES Global.

After the games the structure was dismantled and the land returned to the MOD. Caunton are delighted to have been associated with such a sustainable project.



**Main Contractor:** ES Global Ltd  
**Engineer:** Momentum Engineering Ltd  
**Tonnage:** 600 tonnes

## Leicester Tigers North Stand



**Client:** Leicester Tigers  
**Main Contractor:** Galliford Try  
**Engineer:** URS Corporation  
**Architect:** AFL Architects  
**Tonnage:** 600 tonnes

Caunton supplied and erected the steelwork for the North Stand at Leicester Tigers. The stand itself was part of a 10 year programme to redevelop its Welford Road ground into a modern 30,000 seat stadium, complete with facilities.

The logistical challenge for this project was that the club needed to retain operation of all four sides of the ground during the rugby season. To address this, Caunton erected the steelwork for the new stand's roof including a 108 metre long king truss and the upper portion of the stand above the old wooden stand. The previous stand was demolished to clear the ground for the lower level to be infilled.

The impressive 108 metres long truss, which is visible for miles around, is 35 metres high by 12 metres deep and was delivered to site in more than 140 separate pieces. It was assembled on the ground and then erected in one tandem lift during a 15 hour long procedure.

The new stand features a number of amenities and below the seating area it has four internal levels. Ground floor comprises the main concourse and entrance area, as well as a 700 people capacity match day bar. Above this on the first floor, there is a 1,000 seat function suite, a second floor concourse and a third floor plant area.

The impressive new stand is 24 metres high compared to the 8.5 metres high stand which was originally built in the 1920's. An ambitious, yet highly successful contract by Caunton.

## Other Leisure Projects Include:

- St. Catherine's Walk - Carmarthen
- Museum of Liverpool
- Cinema Complex - Altrincham
- Sportiplex
- Marriot Close Retail and Leisure Development - Witney



(Museum of Liverpool)

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