



caunton
ENGINEERING



Steelwork for

Education



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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 Education 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.

Swansea Bay Innovation Campus

Swansea University undertook a major campus redevelopment which created a world-leading research, innovation and education complex. St. Modwens, the UK's leading regeneration specialist, appointed VINCI Construction UK to deliver the first phase of the new £450 million Science and Innovation campus. Vinci subcontracted the design, supply and erection of steelwork for five of the buildings to Caunton, namely, the manufacturing facility, teaching and research facilities, student facilities, learning and resource centre and the Swansea Materials and Research Testing (SMaRT) centre.

The contract included construction of a 65,000m² development on the shore front of Swansea Bay with the aim of delivering world-leading research, innovation and education facilities to the city and the surrounding community.



Main Contractor: Vinci Construction

Engineer: Bay Associated

Architect: Powell Dobson Partnership

Tonnage: 1,600 tonnes

Thistley Hough School



Main Contractor: Stoke on Trent BSF

Engineer: Cundall Consulting Engineers

Architect: Aedas Architects

Tonnage: 485 tonnes

Caunton have supplied and erected the steelwork for a new school in the Potteries. The new and larger, Thistley Hough High School is designed by architect Aedas, engineer Cundall. This school will accommodate 1,050 pupils ages 11-16 and will enjoy Media and Visual Arts specialist status.

The building will house learning, community and leisure facilities which are accessible through a light filled multi-purpose central heart space. Dedicated teaching accommodation sits either side of three, three-storey spaces. The 500t of structural steel by Caunton efficiently frames this two and three storey building of contemporary design, which itself achieves BREEAM Good.

Nene Park Academy - Peterborough

Caunton supplied the steelwork for a major new academy in Peterborough.

The main contractor for this £14.25 million project was Kier Construction. The refurbishment included new classrooms, a grass amphitheatre and new dining facilities. Caunton's steelwork, comprises of a beam and column framework, 26 bays long, of equal parts, of two and three storey height. This lies adjacent to the existing schoolbuildings. Alongside this a 5 metre foot bridge was installed, which linked the existing buildings with the new buildings.

Caunton designed the steelwork connections with the main frame being designed by Ramboll UK.



Main Contractor: Kier Construction

Engineer: Ramboll UK

Architect: Frank Shaw Associated Ltd

Tonnage: 400 tonnes

Addey and Stanhope School - Lewisham

Caunton Engineering worked for major national building contractor, Costain to complete the construction of steelwork for the structural frames of two major London school developments.

Caunton supplied over 100te of steelwork, some of which was offsite intumescent coated for the new Addey and Stanhope School building which comprised of a sports hall, along with improved dining and library facilities.

Caunton's record can now show an impressively comprehensive geographical spread for supplying school buildings — the north, the midlands and the south of England.



Client: Lewisham BSF
Main Contractor: Costain Limited
Engineer: Ramboll UK Ltd
Architect: HKR Architects
Tonnage: 110 tonnes

Richard Rose Central Academy - Carlisle



Main Contractor: Kier Northern
Engineer: Building Design Partnership
Architect: Building Design Partnership
Tonnage: 210 tonnes

Caunton were employed on the Richard Rose Central Academy contract in Carlisle by main contractor Kier Construction. This £26 million project comprised of two main wings linked by a large glazed main atrium.

The elegant roof beams are fabricated box girders and tapered in profile. They are very much an architectural feature with top boom channels (300x100PFC) and plated webs (thickness 20mm) connected by countersunk bolts. The web plates are tapered from 1 metre at the centre to 0.6 metres at the ends. Each beam was fabricated in two pieces and the central splice designed as an architectural feature requiring countersunk bolts. There are nine beams in total, spanning from 19 to 26 metres. The heaviest weighed nearly ten tonnes.

The staircases are a striking feature of the atrium, rising to suit the two storeys of main buildings and the feature walkway adds to the experience. The staircase treads are fabricated from 6mm pressed flat and are connected to the RHS stringers. MD60 floor decking was used for both the landings and the bridge. The flight assemblies weigh up to a sizeable seven tonnes.

Ellis Guilford School - Nottingham BSF

Caunton supplied the structural steelwork for the Ellis Guilford School in Basford, Nottinghamshire. This project comprised a total investment of over £12 million.

The client was Nottingham's Local Education Partnership (LEP), which is a public, private partnership between the council and "Inspired Spaces". The organisation "Inspired Spaces" is a company set up by Carillion and its joint venture partners to deliver educational transformation through the government's Building Schools for the Future programme. This is the twelfth school that the LEP has rebuilt and remodelled in Nottingham. Caunton Engineering has supplied and erected steelwork for five of the twelve schools which have been rebuilt.

Caunton supplied over 200te of steelwork for this project, along with the metal decking and the precast concrete stairs.



Client: Nottingham's Local Education Partnership (LEP)
Main Contractor: Carillion Regional Building
Engineer: Capita Symonds Ltd
Architect: Capita Architecture
Tonnage: 215 tonnes



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Ryton Park Primary School - Worksop

Caunton supplied over 220 tonnes of structural steelwork for a brand new state of the art school for pupils at Ryton Park Primary School in Workshop.

Caunton was responsible for the connection, design, supply and erection of the structural steelwork which comprises of single and two storey structures.

The two storey building is a braced steel frame and the single storey building being a moment frame structure with horizontal bracing on the roof. The wall construction is formed from a Metsec cladding system with the roof of lightweight construction on hot rolled steel purlins.



Client: Nottinghamshire County Council
Main Contractor: Interserve Building
Engineer: BWB Consulting
Architect: Nottinghamshire County Council
Tonnage: 220 tonnes

Nottingham University Samworth Academy (NUSA)



Client: Nottinghamshire City Council
Main Contractor: Carillion Plc
Engineer: Atkins Plc
Architect: Atkins Plc
Tonnage: 1010 tonnes

Nottingham City Council and Nottingham University Samworth Academy Trust joined forces to develop and build a new Academy for 950 pupils between 11 and 18 years old in Bilborough.

The Nottingham University Samworth Academy (NUSA) is a steel framed two and three storey complex divided into 5 blocks. The frame is generally a simple 'beam and column' structure with single pitched roofs. Design of the building is by Atkins with connections designed by Caunton.

Caunton have supplied not only the structural steelwork, but also the metal decking to floor areas together with Easi-edge safety edge protection. Precast concrete stairs and precast concrete lift shafts were also part of the Caunton package.

Other Education Projects Include:

- Prendergast Hilly Fields School
- Kingswood Secondary School - Corby
- BSF Nottingham - Nottingham Academy
- Hereford Technology School
- Samworth Church Academy - Mansfield
- The Bulwell Academy - Nottingham



(Samworth Church Academy - Mansfield)