



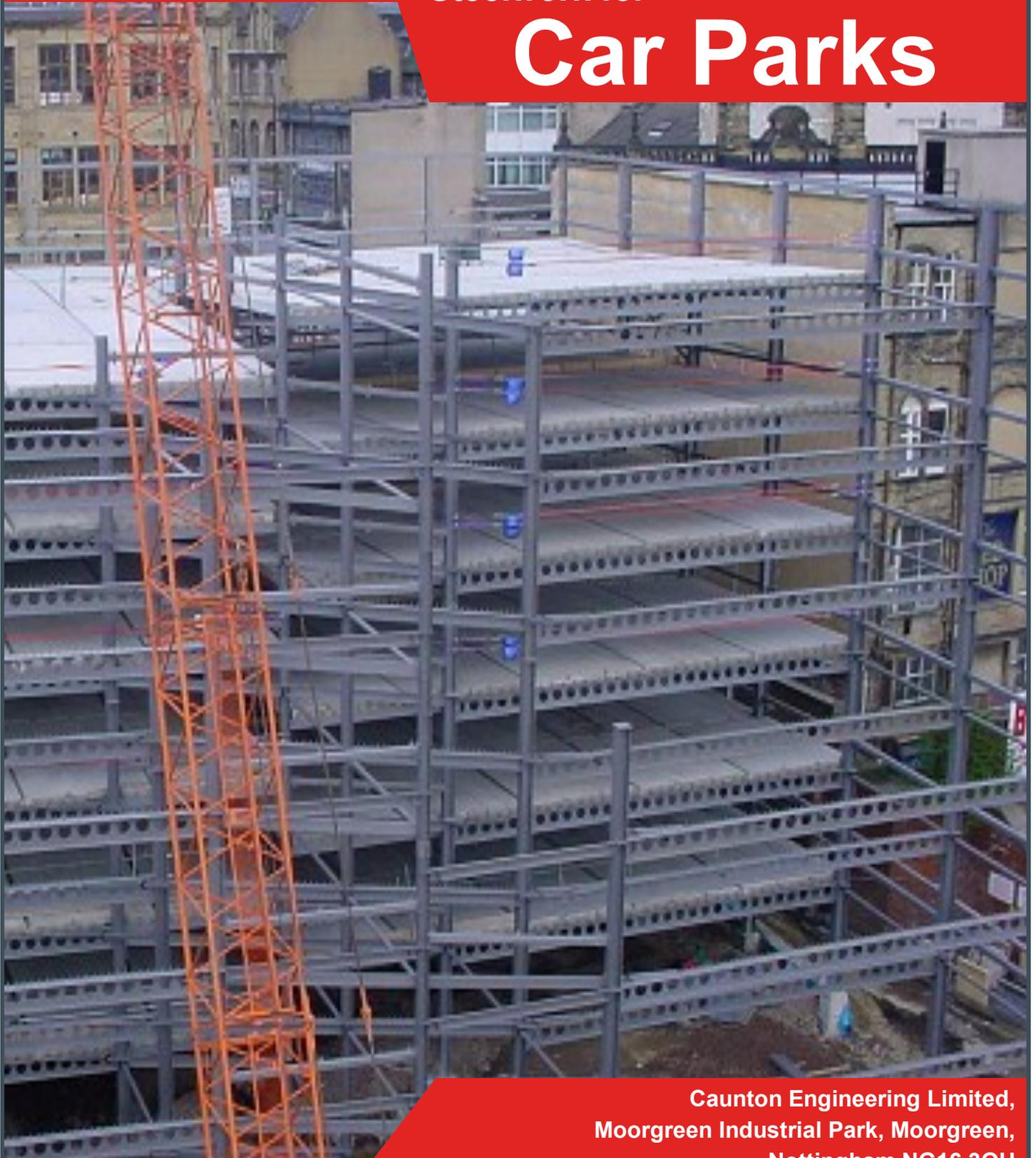
# caunton

ENGINEERING

[www.caunton.co.uk](http://www.caunton.co.uk)

Steelwork for

# Car Parks



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# Sunwin House Car Park - Bradford

Seven storey Car Park utilising steelwork's qualities in speed of construction



Caunton Engineering erected a major new car park structure in Bradford City Centre. The car park itself comprised seven storeys of steel-framing supporting pre-finished pre-cast concrete floor units - the ideal way for a fast track structure to be constructed. Furthermore the design illustrated in the photograph so clearly allows speedy and easy dismantling at the end of its life and thus the scope for sustainability and recycling is maximised.

Caunton are major experts in the car park market and in this instance were responsible for the erection of both the concrete and steelwork elements and of course supplied and fabricated the 410te of steelwork used for the framing. Main contractor Clugston incorporated special safety measures which qualify the car park for a Secure by Design award which means it meets special standards agreed with the police to help protect the public.

Speed of construction and flexibility within tight city centre sites, by utilising steelwork's particular qualities as the framing material, means a growing demand for steel in this vital area of helping reduce congestion in our city centres. It is expected that Bradford will benefit significantly in this particular case.

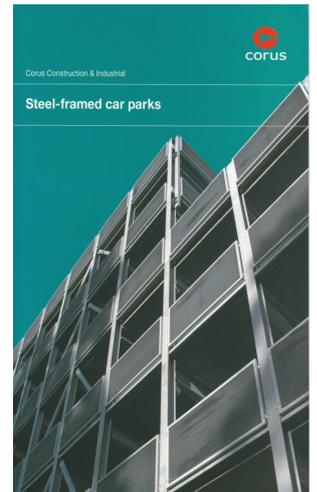


**Main Contractor:** Clugston Construction

**Engineer:** Birkett Stevens Colman Partnership

**Architect:** Bowman Riley Partnership

**Tonnage:** 410 tonnes



Sunwin House Car Park can also be found in the Corus Construction steel-framed car parks booklet.

For more information or copies of this booklet please contact the Caunton Sales & Marketing department e-mails can be sent to [sales@caunton.co.uk](mailto:sales@caunton.co.uk)

# The Old Cattle Market Car Park - Cambridge

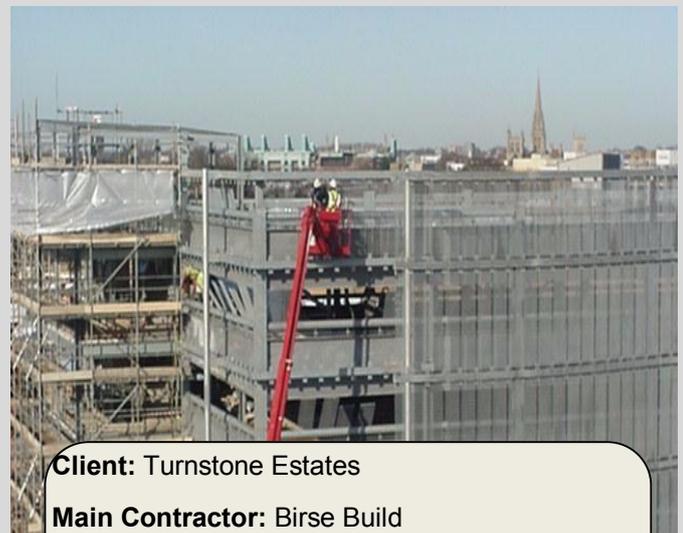
Twelve Storey Car Park regenerating the Old Cattle Market site

Caunton completed the structural steelwork for a major new Leisure Development in Cambridge. This complex required nearly 2,500 tonnes of steelwork - framing both a Leisure Building and a 562-space multi-storey Car Park. The Leisure Building itself houses a cinema, a bowling alley, fitness-rooms and restaurants.

This is in fact the second phase of the development. Caunton had previously been working for main contractor Birse Build on what was to be entitled The Auction Rooms development. Birse returned to Caunton for this second phase, which is the regeneration of the Old Cattle Market Site.

The three- and four-storey Leisure Building structure was erected to a speedy 8-week programme, and benefited from Caunton's highly regarded skills in design and build.

The 12 storey Car Park, which was designed by Caunton, complements the company's substantial reputation in the Car Parking sector.



**Client:** Turnstone Estates

**Main Contractor:** Birse Build

**Engineer:** TR Collier

**Architect:** Covell Matthews

**Tonnage:** 2500 tonnes

# Dolphin Square Car Park, Weston-Super-Mare

Weston-Super-Mare has gained a major new retail development in the heart of this seaside town, entitled the Dolphin Square Shopping Centre - See Artist's impression above. Developed and built by the McLaren Group of companies, this includes a new steel-framed car park which was framed by Caunton Engineering. The framework for this 397 space car park built over three storeys, required over 300te of steelwork, the design of which was by Caunton's design department. The frame is of "beam and stick" construction, with moment connections between the beams and columns. The beams are



**Main Contractor:** McLaren Construction

**Engineer:** Ward Cole Partnership

**Architect:** Mountford Pigott Partnership

**Tonnage:** 310 tonnes

spliced at the beam's point of contra-flexure. This reduces the floor depth which limits the overall height of the building which was crucial due to demands of the surrounding residents, and economy too with cladding etc. The steelwork was fabricated and erected by the company too. Caunton also erected the concrete liftshafts, stairs and the planks which form the flooring. Caunton have become very much a specialist in the design-and-build of steel-framed car park structures - examples of which can be seen on this web site - and we will be pleased to forward our latest brochure on request.

## Multi-Storey Car Park - Loughborough University

**Three storey multi storey Car Park galvanised to maintain hard wearing, long service and maintenance-lite qualities**

Caunton are supplying the structural steelwork for a new three storey multi storey car park at Loughborough University. This is part of the University's East Park Campus development plan.

An assessment by the University had found that a number of buildings on this part of the campus are nearing the end of their useful life and are not fit to meet current academic requirements let alone to allow for limited growth. One feature of this redevelopment is a new multi storey car park designed to free up land and reduce areas devoted to surface lined car parks.



Caunton are supplying main contractor Interserve with over 500te of steelwork for this new building. The steelwork is galvanised to maintain hard wearing, long service, and maintenance-lite qualities. The frame comprises universal column sections for both columns and beam with moment connections between the two, and splices at the beams' point of contra-flexure. This reduces floor depth to a minimum thereby limiting the height of the building.



**Client:** Loughborough University

**Main Contractor:** Interserve Project Services

**Engineer:** Nolan Associates

**Architect:** RPS Group

**Tonnage:** 500 tonnes

Both the floors and staircases are in precast concrete and were fitted by Caunton's erectors. The floors are in fact composite, steel and concrete, with the shear studs welded off site at Caunton's workshops.

# Further Car Parks by Cauntton ...

- Undercroft Car Park at Unilever HQ, Leatherhead
- ASDA Store and Car park, Rawtenstall
- Combined Car Park & Retail Complex - Mansfield
- Single Storey Car Park - Maidenhead
- Edmonton Green Police Station & Car Park



Edmonton Green Police Station & Car Park

## City Walk Car Park - Sweet Street, Leeds



**Client:** Simons Estates

**Main Contractor:** Wrights Construction (Lincoln) Ltd and Simons Construction

**Engineer:** John Allen Consulting

**Architect:** Simons Design

**Tonnage:** 1180 te

feature and for the crowning glory- a signature" spike" 37 metres tall, a substantial monolith - 500mm in diameter- which highlights and enhances the front elevation. A sophisticated erection method involving a tower crane and two 120ft-capacity "cherry pickers" for erection access (which required craning into the basement) was adopted due to the very tight site constraints.



Cauntton Engineering supplied the structural steelwork for two new office blocks within a major new Leeds office development - City Walk, Sweet Street. This scheme by developer Simons Estates is being constructed at a most high profile and rapidly expanding location at the southern gateway to the city centre, within 5 minutes walk of both the railway station and the city centre. The six storey office building provides large open plan floorplates each of 10,795 sq. ft., plus lower ground floor and basement car parking for 80 cars.

A large amount of tubular framing was incorporated both for the glazed main entrance



INVESTORS IN PEOPLE



Sustainability  
in Steel Construction

