



PRECAST SOLUTIONS

Est. 1973



Car parks

Award Winning Precast Concrete Solutions

Hengrove Leisure Centre Car Park, Hengrove, Bristol, Avon

Precast Concrete: Bison Concrete Products, Derbyshire & Creagh Concrete, Scotland

Main Contractor: Kier Western

Design & Build: PCE Limited

PCE undertook the design and build of the split-level car park adjacent to a new leisure centre on a high profile city suburbs site on behalf of Kier Western.

The contract was awarded on the strength of a number of successful precast design and build scheme for Kier notably in the custodial and education sectors.

PCE was responsible for all aspects of the project from design and commissioning the manufacture and supply of high quality precast units which were produced by Bison with factory-floor supervision from PCE's own staff who provided hands-on approach to the manufacturing and quality aspects of the project.

Precast units were manufactured and stockpiled in advance of on-site construction to ensure seamless delivery to site, which assisted with a fast track build programme of just 10 weeks, followed by four weeks of screeding and finishing works.

PCE's own team of NVQ qualified installers erected more than 550 precast concrete units including 48 external wall units, 235 hollowcore flooring panels, columns, beams, a liftshaft, stairs and landings.

The project also included the construction of a retaining wall structure comprising 145 precast units.

The quality of finish on the precast concrete stair cores ensured that direct decoration could be carried out and PCE set new standards in finishes ensuring that exposed joints between units had neat joints to produce a pleasing visual appeal.

The split-level car park concept features parking at street level with additional spaces on a specially designed upper deck which was constructed to falls to ensure efficient drainage of surface water.

The car park provides more than 320 spaces with 150 places at ground floor level and a further 176 on the suspended deck section. In order to reduce the visual scale of the building, a rustic cedar panelling façade faces the leisure centre elevation with the southern elevation, which forms the entrance to the site, featuring a series of stainless steel wire supports for suspended planting.

