



# PRECAST SOLUTIONS

Est. 1973



**Custodial**  
Award Winning Precast Concrete Solutions

# HMP Featherstone 2, nr Wolverhampton, West Midlands.

**Client:** Ministry of Justice

**Precast Concrete Suppliers:** Techrete Ltd, Tarmac Precast, Bison Precast Products, Treanor Pujol, Buchan Concrete Solutions and Bell & Webster

**Main Contractor:** Kier Build

**PCE was appointed by Kier Build as precast design & build specialist for the new Category B prison built on a brownfield site adjacent to the existing HMP Featherstone.**

To meet a demanding design, manufacture and construction programme involving some 13,000 plus precast concrete elements, PCE took total control of design and procurement with a supply chain comprising six leading UK precasters.

The design features many of the innovative design features that PCE has developed in 20 years at the forefront of precast concrete custodial structures, with all components manufactured offsite and supplied "flatpack" to a just-in-time schedule.

The project involved the construction of 12 precast concrete buildings, including three 480 place four-storey houseblocks, entry buildings, a hospital, an isolation unit, first night facilities and associated buildings, all within a demanding timeframe of just one calendar year.

The precast elements have a number of features designed to limit site work to a minimum and speed up construction. All doors, window grilles and window units were built in at manufacture, along with balustrades, sanitary provisions and drainage. M&E provision was also cast into the units at

manufacture, along with other features designed to directly interface with 12 metre service cores installed in all three of the four-storey houseblocks.

PCE placed its own co-ordinators with each of the manufacturers to ensure quality standards and delivery schedules were met.

The project is the largest single design and build programme undertaken by PCE. Key facts include:

53 week precast build programme, contract value £35 million

£180 million project, £35 million precast structures.

12 buildings / 13,500 precast concrete units

2,500 integrated cell windows and 1,650 integrated cell doors.

3,500 panel types.

60-week production programme / 300 units weekly at peak

50-week construction programme placing up to 400 precast units weekly at peak.

Construction was carried out virtually scaffold-free with PCE deploying its Slingsafe patented fall prevention system for unloading the many deliveries to site and its Ambitus guard rails and fall-arrest netting top protect construction staff. This approach helped PCE to top the site safety league for much of the duration.

