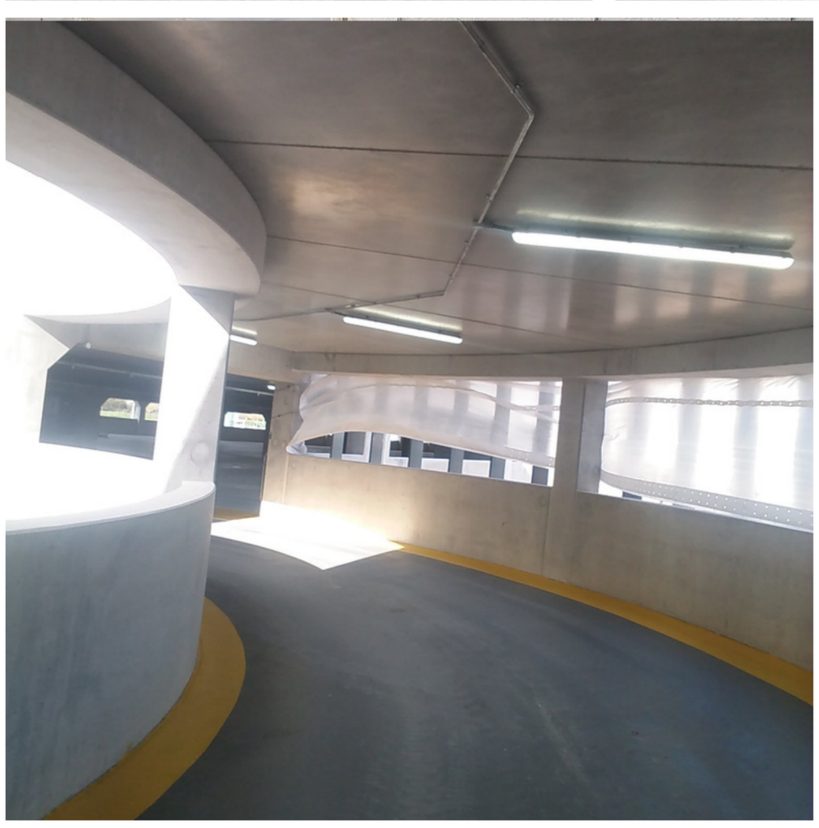
Kilsaran

case study

Car Park
Raheen Business Park, Limerick

Featured Products: **Twin Wall, Solid Wall, Columns, Beams, Lattice Flooring, Hollowcore, Beam and Column Frame and Stair and Lift Cores**



This car park is 147m long, and it is formed almost entirely by use of exposed precast concrete. Its 4 stories are connected by 6 internal stair cores and 2 external ramp bodies. The skeleton structure supports free floor, spans up to 16m. Key design and detailing features include:

1. Erection sequence and stability check of members in the temporary condition.
2. Durability control of exposed surfaces, including those of an earth-retaining wall.
3. Heavily reinforced beam-to-column connections.

In addition to the speed of construction, the extent of precast allowed for ready access and void protection during erection. The quality of precast internal surfaces of stair walls allowed a sleek finish without plastering. Exposed precast required minimum post-installation treatment, and its as it is appearance stood tall architecturally.

Precast:

1. Twin Wall
2. Solid Wall
3. Columns
4. Beams
5. Lattice Flooring
6. Hollowcore

Main Contractor:
John Paul Construction

Architect:
Henry J Lyons

Engineer:
Punch Consulting Engineers

Precast Value:
3.7M

Onsite Duration:
16 Weeks