

Concast Precast

Car Parks



- Beams
- Spandrels
- Multi-Storey Columns

- Hollowcore
- Wall Panels
- Stairs



Concast Head office,
Hazelhatch,
Newcastle,
Co. Dublin

Phone: (01) 6288055
Fax: (01) 6272326
Email: Sales@concast.ie
Web site: www.concast.ie

PRECAST CONCRETE SPECIALISTS

Concast Precast Ltd

Car Park Design

Concast is Ireland's leading structural precast concrete manufacturer. Since its establishment in 1975, Concast has worked with Ireland's foremost Architects, Structural Engineers and Contractors to develop civil engineering structures throughout Ireland and the UK. Concast provide a complete service from design, manufacture, transportation and installation of a wide range of precast products.



Concast is the leading provider of multi-storey car parks in Ireland, having worked on such large scale developments as OPW headquarters in Trim, Omni Park car park in Santry, MSCP Kilkenny, Dunnes Stores in Cornelscourt, MSCP Blessington, MSCP Newbridge, Wexford Towncentre and Luas Park & Ride at Balally in Dundrum among many others.

Concast provide a complete service - from initial design or re-working existing designs, to creating a detailed project plan, manufacturing, transporting and expertly installing our precast concrete products.

The specialist layout required for multi-storey car park design is ideally suited to a precast frame and flooring system. Hollowcore units have a clear span capability of up to 16.2m which reduces the requirements for vertical columns, facilitating ease of movement and parking.

Left: Microsoft Car Park

Typical Car Park Design

The typical spacing for columns in a car park is 16.5m x 7.5m. 7.5m allows for three car spaces to be fitted between the columns in one direction and 16.5m allows for movement of the cars in two lanes.

This is ideally suited for a precast system, as 400 deep Hollowcore can span 16.2m with car park loading. Typically, Spandrel panels are used around the outside of the buildings and at ramps, as these beams have a built in crash barrier, which is one of the requirements of car park design.

Stair cores are designed using precast wall panels and stair units, and allow immediate access between levels during the construction stage.



Blessington Car Park



St. Mary's Car Park

Concast Precast Ltd

Car Park Design



Spandrel Panels

Spandrels are essentially a combination of wall panel and beam. They are wall panels with a concrete corbel cast into the unit, for slab to bear onto. They use the full depth of the wall section as a deep beam, and therefore can take substantial amounts of load.

They are often used in car parks, where the wall section above the beam can then be used as a crash barrier in the exterior of the building. They can also be used in most types of multi-storey construction.

As these panels are on the outside of buildings, they are often rendered prior to installation. They can have a full range of finishes, similar to our cladding panel range. Please see our cladding panel page for details.

Left: Kilkenny M.S.C.P.

Conclusion

Precast concrete is capable of providing large parking areas with minimal obstruction from columns. The system provides the full range of required components and is flexible enough to allow for innovative design solutions which are often required on restricted sites. Precast concrete is a mouldable material that offers great structural strength, durability and designer choice. It is the most consistent method of delivering projects on time and within budget.



Thurles Shopping Centre M.S.C.P.



O.P.W. Car Park - Trim

For more information on Concast's products, please contact:

Tony O'Reilly (Sales) - 353 (0)87 2320048
Des Quinn (Sales) - 353 (0)86 2333808

Postal Address:
Concast Head office,
Hazelhatch, Newcastle,
Co. Dublin



Phone: (01) 6288055
Fax: (01) 6272326
Email: Sales@concast.ie
Web site: www.concast.ie