

Corestruc

Structural systems



Corestruc's structural systems have been used to build many high quality private- and public-sector property developments, including leisure, commercial and retail types. Our precast concrete systems have significantly accelerated construction times and reduced project costs, while also contributing towards a more robust final asset that will continue to provide value for many years.



Construction of Concrete Pre-Cast Structures

SWIFT CONSTRUCTION

The columns, beams and hollow-core slabs that make up the superstructure are manufactured at our factory before being dispatched on a just-in-time basis to the construction site. Swift construction is ensured by eliminating the need to erect and dismantle tonnes of formwork, as well as the coordination of large scale steel-fixing and concrete teams.

One of these four-storey hotel structures was completed in only 15 days in a highly congested and operational site.

SAFE AND CLEAN SITES

Construction of the superstructure is undertaken by Corestruc's small and efficient teams. The various elements are installed as they arrive on site from our factory in a closely coordinated cycle, freeing up space in already built-up and congested environments. Moreover, this approach to building restricts the number of people working at heights to our skilled team, also comprising an experienced foreman and rigger. In addition, we use our own cranes and skilled operators to safely and efficiently lift the various precast concrete elements. At our factory, the various elements are all manufactured in a safe and controlled environment, and where all work is undertaken at ground level.

A three-storey commercial block was built in record times in a congested central-business district.

ROBUST AND ACCURATE BUILDS

High levels of precision are achieved by manufacturing the precast concrete columns, beams and floor slabs in a controlled environment and far removed from the daily variances that are encountered on a conventional construction site. Our surveyor on site is equipped with a state-of-the-art Total Station to ensure a high degree of accuracy is also achieved throughout the construction cycle, starting with the columns that are fixed to the foundations according to a set grid. Each precast-concrete element varies between 60 MPa and 70 MPa contributing towards a more durable final structure for the owner of the asset.

800 m² of precast concrete wall panelling and coping were accurately manufactured and installed to complete this striking facade structure.

EXTENSIVE PRECAST CONCRETE KNOWLEDGE

On all of our structural projects, we work closely with our clients, as well as their architectural and structural-engineering teams in the early design phases where we share important insights and learning in precast-concrete construction. This knowledge and experience has greatly assisted in optimising designs, as well as the use of our precast concrete systems, while also ensuring smooth project execution.



GET IN TOUCH

Head Office

8 Burke Avenue Zwartkop
Centurion

Tel: 087 288 0062

Cell: 082 565 1427

Email: info@corestruc.co.za

Web: www.corestruc.co.za

Polokwane Branch

Portion 1 of 21 Farm Rietfontein
Polokwane, South Africa

Tel: 087 288 0062



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