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Slipform Concrete

Slipform concrete construction is a method of producing a concrete element or structure using a slow but continuously moving formwork, shutter or paving/kerbing machine. The concrete is placed into the formwork or machine which moves either vertically or horizontally while the concrete is extruded from the formwork or machine to produce the desired concrete profile.

This technique utilises the setting characteristics of the concrete with a closely controlled concrete consistence to achieve sufficient concrete set and strength to allow the formwork or machine proceed without damaging the extruded concrete behind it. The two main types of application for slipform concrete are tall buildings, towers or lift shafts in the vertical orientation and median barriers, kerb, channels and pavements in the horizontal orientation.

Each application would have its own unique concrete mix design to suit the particular requirements of the type, size and speed of slipform work. The most notable advantages of slipforming is the speed of construction and the joint less monolithic structure that results.

APPLICATIONS - Vertical Slipform

- Lift shafts
- Silos
- Towers and chimneys
- Building cores

APPLICATIONS - Horizontal Slipform

- Median barriers
- Road kerbs
- Surface water channels
- Airfield pavements



Slipform Concrete, Visual Control Tower, Dublin Airport

Key features and benefits

- Speed of construction
- No cold joints due to the monolithic nature of construction
- Continuous extrusion process, no need to use fixed formwork
- Excellent finish
- Work can be stopped and resumed to suit the demands of the project
- Mix design and technical advice available

Technical specification

- I.S. EN 206 - Concrete Part 1 : Specification, Performance, Production and Conformity
- NRA Specification for Road Works series 1700
- Project Specific Specifications

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