



PRE-CAST CONCRETE

TOPIC : Introduction and Precast Concrete Element



Precast concrete :

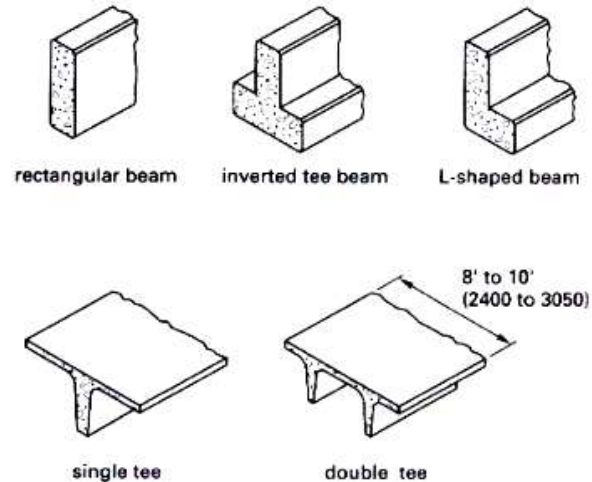
Pre-casting is the casting of concrete members at a location other than its final position in the structure, as opposed to cast-in-place concrete.

Precast concrete is usually cast in fabricating plants where conditions can be more carefully controlled and where work can proceed regardless of the weather.

Precast concrete has the greatest economic advantage when there are many identical members to be cast, as the same forms can be used many times.

Advantages of pre-casting :

- 1) Better quality control of concrete.
- 2) Better control over curing.
- 3) Members castable in all weather.
- 4) Members erectable in all weather.
- 5) Faster actual construction time.



Advantages of Precast Concrete :

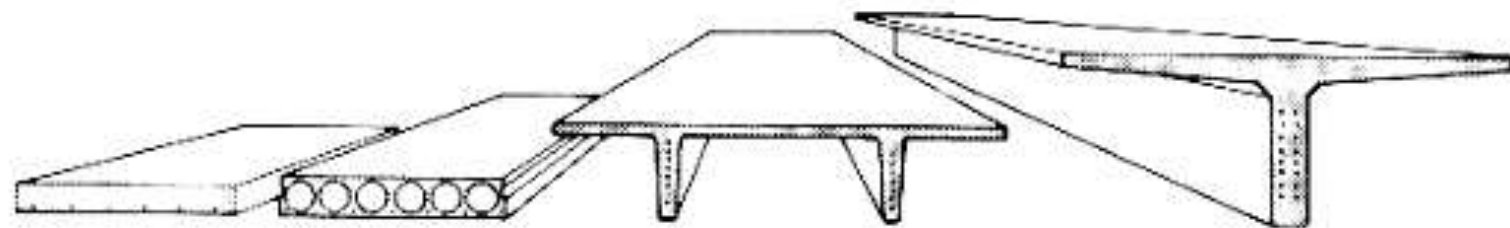
- ❑ Less expensive than real brick.
- ❑ Does not require an extensive footing like a real masonry wall. Can be reset should it ever shift.
- ❑ More durable than real masonry - no mortar joints to let water in.
- ❑ Installs quickly and easily - most can be done in one day.
- ❑ Maintenance free - No need to paint or periodically replace slats as you would with wood fences.

Precast Concrete Disadvantages:

- ❑ Development of connections between elements is difficult and there is an inherent lack of continuity.
- ❑ Difficulty integrating other building systems (ducts, wiring).
- ❑ Often heavy and long adds difficulty in handling and transportation; cost of manufacturing must be offset by use of repetitive members.



Typical Precast Concrete Members



Flat slab
Tee

Hollow Core slab

Double-Tee

Single-

Paver Block :

Paver blocks are a type of non-structural precast concrete element.



RCC fencing pole has higher strength, longer life, and the potential to span longer distances than steel poles are the key reason behind this tendency. These poles are more commercial design & more economical to build. These poles are basically used for covering and protecting our environment. RCC fencing pole are used to protect or divide property, to improve its appearance and give safety to environment.





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