



Precast Concrete

Intent: To eliminate or minimise the risks of fatalities, injuries and events arising from precast and tilt up concrete work.

Engineered Safety in Practice (examples):

- Pre-fit services and penetrations to reduce onsite remediation works and exposure to hazardous dust and fibres
- Reduce need to in-situ construction and associated working at height risks by designing with precast components in the first instance
- Incorporate and embed engineered and certified lifting anchors, bracing and lifting points into components

FSR Controls

1. Fabricate and install precast concrete elements only in accordance with an approved and certified engineering design.
2. Store precast elements on level, stable ground with appropriate supports, in accordance with the certified temporary works design.
3. Develop and implement a documented safe system of erection for all precast and propping elements, reviewed and approved by a *competent engineer* before lifting or installation begins.
4. Temporary supports must not be removed until approved by the Temporary Works Coordinator and authorised via a Permit to Unload.
5. Obtain documented approval from the design engineer before making any changes to precast element or support system designs.
6. The Crane Appointed Person, Crane Supervisor or delegate must verify that the lifting clutch is compatible with the cast-in lifting point before each lift.
7. Access to precast erection zones is restricted to authorised personnel using physical barriers and signage.
8. Verify and record concrete test results and the Certificate of Compliance (Birth Certificate) to confirm conformance with design requirements before lifting.
9. Install physical barriers to protect propping systems from impact by mobile plant.
10. Inspect props in accordance with the inspection frequency and method specified in the approved design.
11. The Temporary Works Coordinator or Supervisor must inspect brace supports before use and throughout construction to confirm compliance with design documents.

DEFINITIONS

Competent Engineer: A qualified and authorised professional engineer experienced in precast lifting and temporary works, responsible for reviewing and approving the erection method and stability plan before work begins.

