

HYER STANDARDS

Precast and Tilt Up

The Hansen Yuncken HYer Standards provide guidance on the minimum level of compliance expected for high risk activities on all projects.

Design and Manufacture



- The construction and erection sequence must be planned prior to manufacture of prefabricated concrete elements
- Elements must be designed and signed off by suitably qualified engineers
- Design and manufacturing paperwork (as required) must be submitted to HY (including certificates) prior to delivery and installation

Transport and Delivery



- Elements are to be secured individually to the vehicle using chains, and placed so that identification marks are visible during unloading
- Delivery vehicles are to be chocked (if necessary) to prevent tipping when partially unloaded
- Elements must be inspected by competent person prior to lifting
- If elements must be stored on site, they must be supported and stored in a designated area in specified order with identification marks visible

Lifting



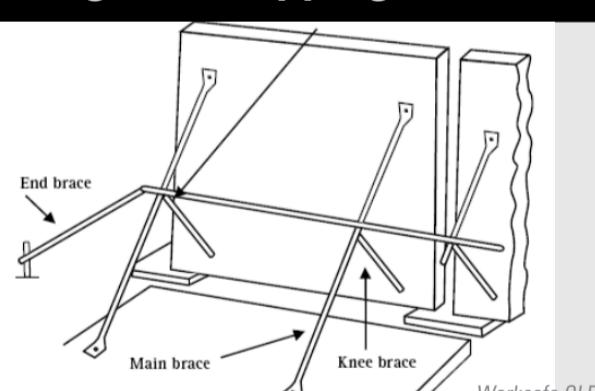
- A documented lift plan must be developed prior to lifting
- An engineered work platform, verified by a geotechnical engineer, must be prepared for mobile cranes involved in erecting precast
- Specified lifting clutches that match lifting inserts must be used
- Safe means of access is to be provided for riggers to access lifting points
- Damaged elements are not to be lifted without written approval from the designer

Erection



- Erection drawings, including details of bracing and propping, must be available to the erection crew
- Exclusion zones must be established prior to lifting
- Loads are not to be released before the element is adequately braced or incorporated in the supporting structure

Bracing and Propping



- Propping pins must be locked in place
- Bracing/propping must be protected from potential impact by mobile plant or other site activities
- Approval must be obtained to remove or modifying bracing and propping
- Temporary supports must not be removed before the supported element is incorporated into the structure and the structure can support the element for the applied loads

Inspections



- The Precast Concrete Checklist is to be used to verify quality of panels prior to erection
- A competent person must verify that panels are installed in accordance with design plans and drawings throughout the course of installation and securing
- Regular inspections of bracing and propping is to be undertaken until temporary bracing is able to be removed



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**PRECAST AND TILT UP
PROCEDURE**