

HYER STANDARDS

Precast Fabrication and Installation

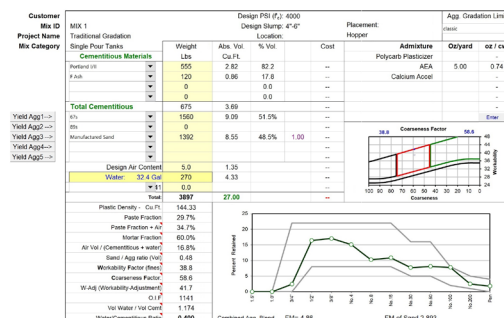
The Hansen Yuncken HYer Standards provide guidance on the minimum level of compliance expected for high risk activities on all projects.

Formwork and Reo



- Panel size/thickness to be correct.
- Penetration and rebate dimensions, and type/positions of lifters must be per approved drawings.
- The pull-out capacity of lifting inserts is to be tested to AS 3850.
- Size and location of ferrules, and bar chairs position and cover are to be verified and confirmed as correct.
- Bars or mesh are to be correct size, tied in position, with correct lap length and cover.

Concrete Mix Design



- The concrete mix design must be reviewed and approved by the engineer.
- The mix design is to comply with the specifications for strength (MPa), aggregate size (mm), slump (mm), and class of finish.
- Concrete testing frequency of samples is to be referred to in the specification.

Fabrication



- The concrete ordered and used must be the approved mix design.
- The concrete slump is to be verified to meet the specification.
- Concrete strength must reach the required strength (Mpa) before lifting.
- Approved admixtures are to be verified to have been used, if applicable.
- Water is not to be added to the concrete on site unless approved by the Engineer/tester.

Fabrication (cont.)



- The panel surface finish is to be the specified class and colour.
- Embedded surface design/pattern is to be per specified requirements.
- Panels must be flat and not warped or twisted.
- Panel edges must be straight. Any deviation from square must be within tolerance.
- Delivery dockets must be prepared in order to deliver precast concrete panels to site.

Pre-Installation



- Approved shop drawings are to be available on site.
- Bracing layout/design is to be designed and certified by an engineer.
- Brace footings per engineered design and required strength achieved.
- Erection sequence is to be prepared and certified by a qualified engineer.
- The Precast and Tiltup Procedure and HYer Standard must be adhered to for safety and installation.

Compliance

Hold Points:

- Shop drawings approved and issued for fabrication by the Structural Engineer.
- Concrete mix design approved
- Test sample panel/s approved
- Structural Engineer's report items to be completed
- Bracing layout designed by certified engineer
- Written approval must be provided by the project design engineer or suitability qualified independent engineer to remove temporary bracing.

Supporting Documentation:

- Concrete delivery dockets.
- Compressive strength report.
- Birth certificates for each element
- Lifting Insert and transport frame Compliance Certificates.
- Fabrication and Erection ITPs.
- Approved bracing layout
- Inspection Report.



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**PRECAST FABRICATION AND
INSTALLATION PROCEDURE**