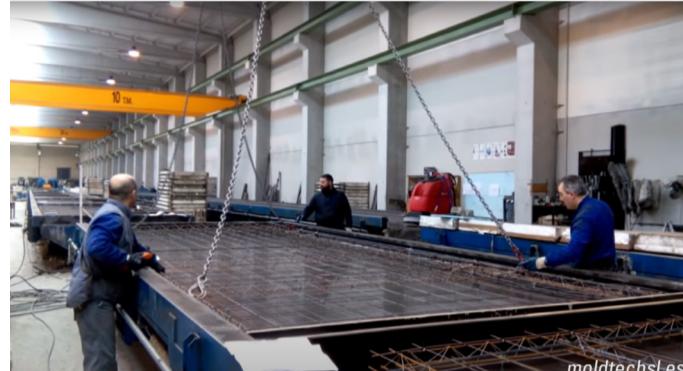


HYER STANDARDS

Precast Fabrication and Installation

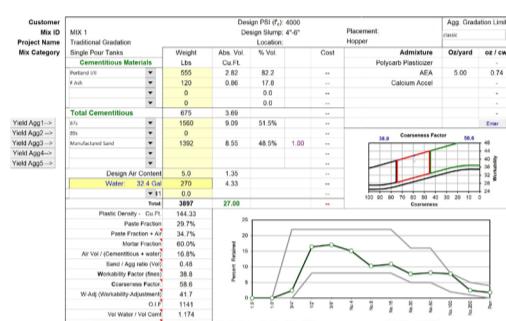
The Hansen Yuncken HYer Standards provide guidance on the minimum level of compliance expected for high risk activities on all projects.

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