

HYER STANDARDS

Concrete FRP (Formwork, Reinforcement, Pour)

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

In-Ground Pours



- Footings are to be founded to the correct depths and safe bearing capacity for inground concrete pours.
- The subbase is to be finished within the required tolerances to the specified grade and level.
- Excavations for drainage and service trenches must be backfilled per AS3798.
- Vapour barrier is to be installed where required.

Formwork



- Formwork framing, spacing and size is to be per the approved design.
- Props are to be vertical, and soleplates must be placed on a solid surface.
- Forms must be straight, plumb, and stable with correct edge board set outs, including edge rebates, blackouts, set downs and cast in items.
- Forms are to be coated with a release agent and edges must be sealed to prevent leakage.

Reinforcement



- Bars/mesh are to be the correct size, tied in position, with correct lap length.
- Reinforcement around cast-in items, penetrations, and block outs are to be installed in accordance with the approved design.
- Mesh is to be pre-cut at saw cut joints and not overlapping.
- Expansion joint filler is installed to walls and columns where specified.

Post Tensioning



- Anchorages must be securely fixed, and anti-burst installed.
- Dead ends must be installed.
- Tendons are to be installed to the correct profile and supported by chairs.
- Grout hoses must be installed with anchorages sealed.
- Initial and full stresses are to be carried out per the Specification.
- Extensions must be recorded and approved by the Engineer.
- Tendons to be cut, sealed, and grouted.

Concrete Placement



- Concrete mix must be per design.
- Water must not be added to the concrete on site (unless approved by Engineer/tester).
- The concrete is to be placed to the specified RLs (within tolerances).
- Concrete must be adequately vibrated.
- Joints are to be per the Specification.
- The concrete surface finish is to be in accordance with specified Class and color control requirements.

Compliance

Hold Points / Inspections

- Inspections:
 - Subgrade prior to covering.
 - Membrane on subgrade.
 - Formwork/reinforcement/post tensioning inspected and approved by Engineer.
- Approvals:
 - Concrete mix design.
 - Curing compound.
 - Services trades must verify that all penetrations, block outs, and cast-ins have been provided.

Supporting Documentation

- Subcontractor completed checklist/QC records or ITP with inspection reports.
- Compressive Test Report/Concrete delivery dockets.
- Pour plan/Final RL Survey/Curing application verification.



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**CONCRETE FRP
PROCEDURE**