

Sample Checklist for Fabrication of Precast Concrete Elements

Project: _____

Location: _____

Checklist	Inspection			Remarks
	Date	Result	Sign	
MOULD INSPECTION				
1. Critical dimensions (within tolerance) <ul style="list-style-type: none"> • Length • Width • Height • Squareness • Openings 				
2. Mould condition <ul style="list-style-type: none"> • Plate thickness • Base mould support • No twisting or unevenness • Fitting 				
3. Provision for bar protrusion and openings				
4. Level and anchorage				
5. Mould cleanliness				
6. Form release agent				
REINFORCEMENT & CONNECTION				
7. No., size and position				
8. Lifting hooks and inserts				
9. Corrugated pipes				
10. Starter bars				
11. Anchorage, and lapping				
12. Cover				
PRESTRESSING TENDONS				
13. No. size and profiles of strands/tendons				
14. Stressing pressure				
15. Elongation				
M & E SERVICES				
16. Recesses or blockouts and openings <ul style="list-style-type: none"> • Electrical services – power points, telephone SCV points, cast in switches • Plumbing services – grooves lines, waste pipes, water pipe • Gas pipes and Aircon ducts 				

Sample Checklist for Fabrication of Precast Concrete Elements (Cont'd)

Project: _____

Location: _____

Checklist	Inspection			Remarks
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OTHER FEATURES				
17. Provisions for groove line, water drip line and fittings				
CONCRETING				
18. Concrete slump and cube sampling				
19. Compaction and curing condition				
20. Demoulding strength				
FINAL INSPECTION				
21. Surface condition <ul style="list-style-type: none"> • No honeycomb • No crack • No chipping • Edge straight • No excessive pinholes • Flatness or evenness 				
22. Element markings				
23. Dimension checks on elements				
24. Recess, groove line, water drip line				
25. Reinforcement, links, bar protrusion, fitting and prestressing strands (if any)				
26. Storage condition and stacking method				
27. Finishing and repair works				
28. Load test for hollow core slab and prestressed concrete panels				
29. Concrete strength before delivery				
30. Protection works for delivery				

Sample Checklist for Installation of Precast Concrete Elements

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ELEMENT INSPECTION				
1. Correct element type				
2. Critical dimensions (within tolerance) <ul style="list-style-type: none"> • Length • Width • Height or thickness • Squareness 				
3. Surface condition <ul style="list-style-type: none"> • No honeycomb • No crack • No chipping • Edge straight • No excessive pinholes • Flatness or evenness 				
4. Lifting points / inserts <ul style="list-style-type: none"> • Location • Physical condition 				
5. Sleeve system / Connections <ul style="list-style-type: none"> • Starter bar (length, size and spacing) • Loop and lapping bars (length, size) • Corrugated sleeve (location and cleanliness) 				
6. M & E services <ul style="list-style-type: none"> • Location • Physical condition 				
7. Storage and loading points <ul style="list-style-type: none"> • Condition • Stacking method 				
PRE-ERECTION				
8. Tools, equipment (drills, auto-level, theodolite, brackets, bolts) and temporary props and bracings				
9. Precast elements to be erected are delivered to storage or loading points				
10. Survey reference lines and level marks				
11. Starter bars of lower units (number, spacing, size and length) for vertical components such as wall and column units				
12. Location and conditions of corrugated pipe sleeves				
13. Shim plate level				
14. Backer rods and waterproofing strip position				

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Checklist	Inspection			Remarks
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INSTALLATION				
15. Setting out and position of elements <ul style="list-style-type: none"> • Verticality • Alignment • Level 				
16. Adequacy of temporary supports				
17. Grouting work (check mix ratio) <ul style="list-style-type: none"> • Horizontal joints • Corrugated pipe sleeve connection 				
18. Joint and connection details <ul style="list-style-type: none"> • Rebar connections • Weld connection • Cast in-situ joint connection 				
FINAL INSPECTION				
19. No visible crack or damage				
20. Watertightness test on <ul style="list-style-type: none"> - External wall panels and - Joints between external wall and window frame 				