3D Concrete Printing Pre-Print Readiness Inspection Checklist

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Project	Location	Status

Date	Completed by

Document and design controls

No.	Done	Check / Requirement	Result	Notes / Evidence
1	☐	Approved IFC drawing/model revision identifies the wall or segment to be printed.		
2	☐	Print file/toolpath revision matches the approved wall geometry and openings.		
3	☐	Required printing-system qualification and trial-print acceptance are current for this operation.		

Substrate and interfaces

No.	Done	Check / Requirement	Result	Notes / Evidence
4	☐	Foundation/substrate setting-out, position and levels have been verified against survey control.		
5	☐	Starting surface is cleaned and prepared in accordance with the approved foundation-to-wall interface procedure.		
6	☐	Required starter bars, dowels and anchors are in their approved positions before printing.		
7	☐	Reinforcement, openings and service-embed locations are coordinated with the print path.		

Printer and work-zone readiness

No.	Done	Check / Requirement	Result	Notes / Evidence
8	☐	Printer base, rails/working envelope and robot clearance are ready for the planned toolpath.		
9	☐	Printer positioning, nozzle height and material-flow calibration checks are current.		
10	☐	Required machine guarding, exclusion zones and emergency-stop checks are satisfactory.		

Materials and environmental conditions

No.	Done	Check / Requirement	Result	Notes / Evidence
11	☐	Correct approved material/mix and traceable production batch are available for the planned segment.		
12	☐	Required pre-print printability checks meet the approved qualified-process limits.		
13	☐	Ambient conditions are within approved printing limits and curing/protection arrangements are ready.		

Inspection release

No.	Done	Check / Requirement	Result	Notes / Evidence
14	☐	Approved ITP, sampling plan and applicable hold/witness notifications are available for this activity.		
15	☐	All mandatory pre-start inspections and hold-point releases have been obtained before printing.		

Comments / Follow-up

Checklist guidance

Use this checklist for one pre-print site visit covering a defined wall or print segment. Check each requirement against the current approved construction documents, qualified printing procedure and ITP; record measured values and evidence in the inspection entry as needed. Any failed critical item or outstanding hold point must be resolved before printing starts.

Tick the box when complete. Record Not done or N/A in Result and note any follow-up.