# 3D Concrete Printing During-Print Quality Inspection Checklist

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| Project | Location | Status |
|---|---|---|
| | | |

| Date | Completed by |
|---|---|
| | |

## Process identity

| No. | Done | Check / Requirement | Result | Notes / Evidence |
|---|---|---|---|---|
| 1 | ☐ | Wall/segment and current approved print-file revision match the active production run. | | |
| 2 | ☐ | Material batch and required printer/process monitoring records are traceable to this visit. | | |

## Extrusion and geometry

| No. | Done | Check / Requirement | Result | Notes / Evidence |
|---|---|---|---|---|
| 3 | ☐ | Extrusion is continuous without unacceptable gaps, under-extrusion or over-extrusion. | | |
| 4 | ☐ | Measured bead width and layer height meet approved tolerances at required sampling locations. | | |
| 5 | ☐ | Layer alignment and contact are within the approved geometry requirements. | | |
| 6 | ☐ | Wall position and developing geometry remain within approved setting-out tolerances. | | |

## Buildability and system control

| No. | Done | Check / Requirement | Result | Notes / Evidence |
|---|---|---|---|---|
| 7 | ☐ | No progressive slumping, bulging, leaning or loss of stability is observed. | | |
| 8 | ☐ | Nozzle clearance is appropriate; no unacceptable drag, collision or deposited-layer disturbance is observed. | | |
| 9 | ☐ | Layer intervals and material age remain within the qualified process window. | | |
| 10 | ☐ | Process/environmental parameters remain within the approved operating range. | | |

## Interfaces and defects

| No. | Done | Check / Requirement | Result | Notes / Evidence |
|---|---|---|---|---|
| 11 | ☐ | Required reinforcement/embedded items installed during this visit are checked before concealment under the applicable ITP. | | |
| 12 | ☐ | Visible defects or deviations are identified, located, recorded and escalated under the project procedure. | | |

## Visit disposition

| No. | Done | Check / Requirement | Result | Notes / Evidence |
|---|---|---|---|---|
| 13 | ☐ | Any failed critical condition has led to the required hold, notification or engineering disposition before proceeding. | | |

**Comments / Follow-up**

## Checklist guidance

Complete this checklist for one defined observation visit during active printing of a wall or segment. Repeat the checklist for later visits. Record location/layer, measurements and process context in the inspection record; compare with the approved model, qualified printing parameters and project ITP. Stop or escalate when continued printing could conceal a critical defect or create instability.

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