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Install Contiguous Pile Wall—Cage and Concreting Checklist

Install contiguous pile wall—cage and concreting interactive checklist verifying cover, centralizers, tremie, and continuity; fully commentable and export as PDF/Excel with QR authentication.

Project:	
Date:	
Filled by:	

Pre-Concreting Checks	
1	Confirm latest approved drawings/specifications and method statement for cover, centralizers, tremie, and sequence are on site; acceptance: current revision stamped; evidence: upload revision and approval pages.
2	Measure sediment at borehole base using weighted tape or spoon; acceptance: ≤ 50 mm residual sediment; evidence: recorded depth reading and photo.
3	Check slurry properties (if used) with Marsh funnel, mud balance, and sand kit; acceptance: density 1030–1150 kg/m³, viscosity 32–50 s, sand ≤ 4%; record results.
4	Confirm borehole diameter and verticality with caliper/inclinometer; acceptance: diameter ≥ design, verticality deviation ≤ 1:200; attach instrument report.
5	Verify concrete mix and logistics; acceptance: slump 180–220 mm at tremie discharge; cast test specimens; evidence: batch tickets, slump photo, specimen IDs.

Reinforcement Cage	
6	Measure cage overall length and tip level against design; acceptance: tip elevation not higher than design, allowable lower tolerance –50 mm; evidence: tape measurement log.
7	Check bar diameters and quantities with calipers and count; acceptance: matches drawing; record heat/lot numbers; evidence: photos of tags and bars.
8	Verify hoop/spiral pitch using a steel tape; acceptance: within ±10 mm of specified spacing; record three readings per 3 m length.
9	Inspect splices/couplers; tighten with calibrated torque wrench to manufacturer’s requirement; acceptance: wrench reading within ±5% of specified torque; capture torque log.
10	Install temporary stiffeners and lifting frames; acceptance: cage out-of-round ≤ 10 mm over nominal diameter; evidence: ring gauge check and photos.

Centralizers and Cover	
11	Install polymer centralizers at 1.5–2.0 m vertical spacing, minimum three per level; acceptance: evenly distributed; evidence: count and photo log.
12	Confirm centralizer OD achieves cover; acceptance: nominal cover 60 mm ±10 mm, minimum 50 mm at any point; gauge-check and record.
13	Verify centralizer material is non-absorbent polymer or approved equivalent; acceptance: no steel-on-soil contact; evidence: supplier and batch recorded.
14	Place spacers near toe, joints, and overbreak zones; acceptance: centralizer within 0.5 m of toe and at 1.5–2.0 m intervals upward; photo evidence.
15	Dry-fit cage through guide ring before lift; acceptance: consistent all-round cover maintained; evidence: measured offsets at four quadrants.

Tremie Setup and Placement	
16	Assemble tremie with clean, gasketed joints; acceptance: water test at 0.2 MPa for 5 minutes without leaks; record pressure and duration.
17	Select tremie internal diameter ≥ 3× maximum aggregate size and ≥ 150 mm; evidence: measured ID and recorded aggregate size.
18	Position tremie tip 150–300 mm above pile base before first charge; acceptance: confirmed by marked tremie lengths; record initial tip elevation.
19	Use disposable plug/go-devil for first charge; acceptance: no visible segregation in returns; evidence: observation note and photo if retrieved.
20	Maintain tremie embedment ≥ 3.0 m below rising concrete surface; acceptance: continuous embedment log with calculated head; evidence: embedment chart.

Concreting Operations	
21	Ensure continuous concrete supply; acceptance: interval between trucks ≤ 5 minutes, no cold joints; evidence: delivery timestamps and pump log.
22	Monitor concrete rise with weighted tape; acceptance: uniform rise, final head at cut-off +0.5–1.0 m; record readings each 1.0 m.
23	Reconcile placed volume against theoretical ($\pi r^2 h$); acceptance: within +10% of theoretical; investigate deviations > 10%; attach calculation sheet.
24	Manage slurry displacement and disposal; acceptance: displaced slurry clarity improves; sample and dispose per approved project specifications and authority requirements; record volumes.
25	Remove contaminated top if required; acceptance: trim 0.5–1.0 m of weak/segregated concrete; evidence: photos and trimmed depth record.

Continuity and Records	
26	Follow approved pile sequencing for continuity with adjacent piles; acceptance: documented sequence followed; evidence: pour sequence log with timestamps.
27	Survey as-built pile position and cut-off; acceptance: position within ±25 mm of set-out, cut-off ±10 mm; upload survey file and sketch.
28	Mark pile ID and pour date at cut-off; acceptance: durable tag fixed to reinforcement; evidence: photo and register entry.
29	Cast compressive strength specimens at start and mid-pour; acceptance: minimum 6 specimens labeled; record IDs, ages, and curing method.
30	Obtain sign-offs from superintendent, inspector, and contractor; acceptance: digital signatures same day; evidence: uploaded signed checklist.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Install contiguous pile wall—cage and concreting is a focused checklist for bored pile wall construction that helps site engineers confirm reinforcement cage cover, centralizers, tremie placement, and continuity of adjacent piles. It aligns day-to-day work with the method statement for contiguous bored piles, reinforcement cage installation, and tremie concreting under slurry or groundwater. The scope begins after drilling is complete and boreholes are ready for cages, and it ends once concrete is placed, heads are verified, and as-built data is captured. By standardizing measurable acceptance criteria—cover tolerances, tremie embedment, sediment limits, and volume reconciliation—teams avoid segregation, trapped debris, and inconsistent pile alignment. The checklist emphasizes polymer centralizers, continuous supply, embedment of the tremie pipe, and clean slurry displacement to deliver structurally reliable, durable piles ready for trimming and capping beam works. Use it live in the field: tick items, attach photos and readings, add comments, and export PDF/Excel via QR.	1. Preparation: assemble tremie pipes and gaskets, centralizers, cover gauges, weighted tape, Marsh funnel, mud balance, sand kit, calipers, torque wrench, guide ring, survey kit, concrete testing gear, and PPE. 2. Preparation: confirm access, pump location, concrete delivery schedule, lighting, communications, approved method statement, and permits. Brief crew on sequence, acceptance limits, and evidence to capture. 3. Using the Interactive Checklist: open the checklist, select project and pile ID, start interactive mode, and assign a responsible owner for each section. 4. Using the Interactive Checklist: tick items as completed, attach photos, enter readings (slump, density, embedment), scan batch tickets, and link instrument reports. 5. Using the Interactive Checklist: record nonconformances with comments, assign corrective actions and deadlines, and @mention stakeholders for rapid resolution. 6. Export: generate a QR-authenticated PDF/Excel report with all evidence, timestamps, signatures-in-progress, and shareable links for supervisors and inspectors. 7. Sign-Off: capture digital signatures from superintendent, inspector, and contractor; lock the record; distribute and archive per approved project specifications and authority requirements.