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Sheet Pile Driving Inspection Checklist and Guide | QA

Sheet Pile Driving Inspection interactive checklist: verify layout, sealing, cutoff levels; log blow counts and elevations; commentable; export as PDF/Excel.

Project:	
Date:	
Filled by:	

Pre-Driving Verification	
1	Confirm control benchmarks and pile line layout using a total station; verify offsets, stationing, and baseline are within ±10 mm of design; upload survey file, layout photos, and surveyor’s signature.
2	Verify approved drawings/specifications and pile section type, length, coating, and quantity against submittals; acceptance: matches approved submittal; attach approvals, mill certificates, and delivery tickets.
3	Inspect guide frame/lead template for line and level using spirit level and optical/laser alignment; acceptance: line deviation ≤ 10 mm over 10 m, level ≤ 5 mm; photo evidence of gauge readings.
4	Confirm interlock sealant type and storage conditions per manufacturer; acceptance: correct product, unexpired, within temperature range; record lot numbers and take material photos.

Driving Operations	
5	Verify hammer type, ram weight, and energy settings per manufacturer and submittal; record hammer ID and last calibration; acceptance: energy setting within approved range; attach data plate and setup photos.
6	Record initial ground surface elevation at each pile location with a survey rod/total station; acceptance: measurement accuracy ±5 mm; log elevation and upload CSV.
7	Log blow counts per 250 mm penetration (or as specified) including rebound; include time, hammer energy, and refusal/set notes; acceptance: complete, legible log; attach daily driving log sheets.
8	Monitor for driving-induced heave on adjacent piles using a reference mark and ruler/level; acceptance: movement within project tolerance; record readings and corrective actions if exceeded.

Alignment and Plumb Control	
9	Check pile plumbness with a digital inclinometer on web/flange faces; acceptance: out-of-plumb ≤ 1:150 or per approved project specifications; record readings and photo of device display.
10	Verify line alignment at the top of pile with laser/string line against baseline; acceptance: horizontal offset ≤ 15 mm; capture before/after adjustment photos.
11	Confirm embedment by tracking driven length from marks/tape; acceptance: final toe elevation within –0/+150 mm of target; record cumulative penetration and final elevation.
12	Re-check plumb after interlock engagement of the next bay using inclinometer; acceptance: within tolerance without permanent twist; document readings and corrective taps if required.

Interlock and Sealing	
13	Apply a continuous sealant bead to female interlocks using an approved pump/nozzle; acceptance: uninterrupted bead per manufacturer recommendation; photograph bead continuity before threading.
14	During threading, verify full interlock engagement with mirror/flashlight; acceptance: no visible daylight through clutches; capture close-up photos at mid-height and near toe.
15	Inspect any splices or mechanical joints prior to driving continuation; method: visual test with fillet gauges; acceptance: conforms to approved procedure; record welder IDs and attach inspection photos.
16	After driving, hose-test accessible clutches for seepage where practical; acceptance: no leaks or drips observed over 2 minutes; video or photo documentation required.

Cutoff and Elevations	
17	Survey top-of-steel elevation immediately after driving using total station; acceptance: exceeds design cutoff by ≥ 50 mm to allow trimming; upload survey points.
18	Mark the cut line from set-out marks with paint/chalk; method: measure from benchmarks; acceptance: mark within ±5 mm; capture markings before cutting.
19	Cut to elevation with approved method (e.g., cold cutting) protecting interlocks and coatings; acceptance: smooth top, no heat distortion; upload post-cut photos.
20	Post-cut survey of final cutoff elevation and alignment; acceptance: within ±5 mm of design elevation and line tolerance; upload as-built plan and CSV.

Documentation and Records	
21	Complete pile-specific driving record: pile ID, location, section, length, start/finish times, hammer energy, blow counts per interval; acceptance: signed by inspector and contractor; attach scanned log.
22	Document refusal/set per approved project specifications and authority requirements; include final set (blows/250 mm) or refusal definition met; acceptance: criteria clearly evidenced; note any redrive.
23	Record as-built offsets from baseline every ≤ 10 m using total station; acceptance: within project tolerance; upload alignment report and photos of line checks.
24	Compile photo set: pre-drive condition, sealant application, plumb checks, driving, and cutoff; acceptance: clear, geotagged/time-stamped; store in project folder with pile IDs.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Sheet Pile Driving Inspection helps field teams deliver driven sheet pile walls that meet design intent and watertightness expectations. This focused checklist supports sheet pile installation, pile driving QA/QC, and wall alignment control by guiding verification of survey layout, plumbness, interlock sealing, and cutoff level compliance. It also structures consistent logging of hammer blow counts and as-built elevations so decisions on refusal, redrive, or trimming are traceable. By concentrating on driven sheet piles only, it intentionally excludes other wall systems and avoids scope creep. Using practical tolerances, tools, and evidence requirements, it reduces risks like misalignment, loose clutches, leakage, and incorrect embedment that can compromise stability and performance. The result is a safer workface, predictable productivity, and high-quality as-built records accepted by stakeholders. Start interactive mode, tick items as you go, add comments for issues or approvals, and export your submission-ready PDF/Excel with an embedded QR for verification.	1. Preparation: gather approved drawings/specifications, pile IDs, hammer datasheets, sealant TDS, total station/level, digital inclinometer, measuring tapes, paint/chalk, camera, and PPE. Verify survey control and guide frame readiness. 2. Preparation: brief field team on tolerances, refusal criteria, and documentation requirements. Set file naming for pile IDs and prepare driving log templates for blow counts and elevations. 3. Using the Interactive Checklist: open the checklist on a mobile/tablet, enable interactive mode, and select the active pile ID or bay. 4. Tick items as they are completed, enter measurements, attach photos/videos, and add blow count/elevation data. Tag issues, assign actions, and reference specifications. 5. Use comments for clarifications, approvals, and NCRs. Mention responsible roles, set due dates, and resolve threads once actions are verified. 6. Export: generate an authenticated PDF/Excel report with embedded photos, driving logs, and survey CSVs. A QR code links to the source record. 7. Sign-Off: capture digital signatures from inspector and contractor, distribute to stakeholders, and archive the signed report for audit and handover.