Generated file by QChecklists
https://quollnet.com

Inspect couplers and lap splices for piles – checklist

Inspect couplers and lap splices for piles with an interactive checklist—commentable steps verify approvals, engagement lengths, torque and witness marks—and export as PDF/Excel for robust QA/QC records.

Project:	
Date:	
Filled by:	

Pre-Work Approvals and Documentation	
1	Verify approved submittals for couplers and lap splicing at the specific pile locations; confirm manufacturer data, installation procedure, and inspection/test plan are approved. Evidence: signed approvals and revision numbers uploaded to the checklist.
2	Confirm the latest project specifications and authority requirements are accessible onsite (hardcopy or digital). Evidence: photo of indexed folder or linked document version in checklist.
3	Brief the crew on torque procedure, engagement length criteria, and marking method before assembly. Evidence: toolbox talk record with attendee signatures and date.
4	Check traceability: record coupler model, size, and batch/heat numbers against delivery notes. Evidence: photos of product labels and batch lists attached to pile ID.

Material Verification	
5	Verify bar size, grade, and thread type match the approved coupler at each joint using calipers and a thread gauge. Acceptance: matches approved submittal. Evidence: measurements and label photos.
6	Inspect bar threads and coupler sleeves for damage, corrosion, or debris; clean using wire brush and compressed air. Acceptance: clean, undamaged, free of grit. Evidence: before/after photos.
7	Confirm coupler markings (model/class) correspond to the design requirement for the joint type. Acceptance: correct model/class per approvals. Evidence: close-up photo of markings.
8	For lap splices, verify bar grades/diameters are compatible and laps are permitted at the planned station. Acceptance: permitted by drawings/specs. Evidence: drawing snippet with highlighted location.
9	Verify splice location complies with drawings (outside prohibited zones such as designated no-lap regions). Evidence: location photo with tape/scale and reference to grid/chainage.

Coupler Assembly Inspection	
10	Dry-fit and measure bar engagement length using a depth gauge or marked probe before final tightening. Acceptance: engagement length meets or exceeds specified requirement. Evidence: recorded reading and photo.
11	Apply the specified lubricant/compound if required by the manufacturer. Acceptance: product matches instructions. Evidence: product label photo and application photo.
12	Align bars and start threads by hand to avoid cross-threading; check misalignment using straightedge. Acceptance: alignment within specified limits. Evidence: alignment photo with straightedge.
13	Tighten to the required torque using a calibrated torque wrench; record tool serial and torque range. Acceptance: torque equals required value per manufacturer/specs. Evidence: torque log and photo of gauge/indicator.
14	Apply contrasting witness marks across bar and coupler after final torque. Acceptance: continuous marks aligned across the joint. Evidence: close-up photo showing unbroken alignment.
15	Confirm any manufacturer-specific locking or shear-off features are properly engaged/activated. Acceptance: visual indicators achieved per instructions. Evidence: close-up photo and checklist tick.

Lap Splice Inspection	
16	Measure lap splice length along the bar axis using a steel tape; mark ends visibly. Acceptance: length meets or exceeds specified lap length. Evidence: measured length recorded with photo.
17	Check bar surfaces in the lap region are free from oil, mud, and laitance; clean as needed. Acceptance: clean, sound steel. Evidence: before/after photos.
18	Verify bar alignment and separation within allowed gap using a feeler gauge or spacer measurement. Acceptance: gap within specified limit. Evidence: recorded reading and photo.
19	Confirm lap staggering/distribution matches the approved drawings to avoid congestion and weak planes. Acceptance: pattern conforms to drawings. Evidence: annotated photo or sketch with dimensions.

Post-Assembly Verification and Records	
20	Recheck witness marks after handling, lifting, or cage movement at the joint area. Acceptance: marks remain aligned, indicating no rotation. Evidence: post-movement photo.
21	Record as-built data in the splice register: pile ID, bar sizes, coupler batch, engagement or lap length, torque values, installer and inspector. Evidence: saved register entry and exported file.
22	Archive torque wrench calibration certificate and product approvals covering the inspection period. Acceptance: valid dates and matching tool serial/model. Evidence: uploaded PDFs linked to pile ID.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect couplers and lap splices for piles using this focused, field-tested checklist. It targets mechanical couplers, rebar lap splices, and pile reinforcement splicing at pile heads, joints, and extensions—while explicitly excluding cage fabrication activities. You will verify model approvals, bar compatibility, engagement lengths, torque, and witness marks to ensure a continuous load path in compression and tension. Poorly assembled splices can cause slip, head spalling, reduced axial capacity, and expensive rework. This guide sets practical acceptance cues, evidence requirements, and documentation steps so teams can act decisively and leave an auditable trail. It emphasizes calibrated torque application, measurable engagement, and clear visual indicators that withstand handling and concreting. Follow the sequence to avoid blocked pours, misaligned bars, and nonconformities that can delay foundations. Use the interactive features to tick tasks, add comments, attach photos, and export a signed PDF/Excel report embedded with a QR link to the source record.	1. Preparation: bring calibrated torque wrench, depth gauge, steel tape, thread gauge, straightedge, feeler gauge, marker/paint for witness marks, cleaning tools, PPE, and approved drawings/specifications. 2. Open the checklist for the specific pile ID; preload submittals, approvals, and calibration certificates as attachments for quick reference. 3. Using the Interactive Checklist: tick each item as completed, add comments for variances, and attach photos showing measurements, markings, and labels. 4. Record measurements and torque values directly in the fields; capture tool serial numbers and batch data to maintain traceability. 5. Resolve any nonconformities by commenting, tagging responsible parties, and linking corrective actions; retake photos after correction. 6. Export the completed record as PDF/Excel for the pre-pour release; the QR code on the report links to the live source. 7. Sign-Off: collect installer and inspector digital signatures, share with stakeholders, and archive the record in the project register.