

Reinforcement Inspection Checklist

Blank project field record | Complete from current approved documents and site observations

Scope

Included: Steel reinforcement installed in cast-in-place reinforced slabs, pad footings and strip footings, from document/bar-mark check through pre-concealment inspection.

Excluded: Precast manufacture, post-tensioning/prestressing, piles, shotcrete, bridge/highway special provisions, welding/NDT acceptance, structural design/rebar design verification, concrete delivery/testing/placement, and whole-pour release.

Use and project setup

Project field: Project / contractor _____

Project field: Element / grid / inspection zone _____

Project field: Pour or lot reference _____

Project field: Inspection date _____

Project field: Structural drawing / revision _____

Project field: Bar schedule / revision _____

Before inspection: Element, grid and pour/lot IDs — Defines the physical steel package inspected and links results to the pour record.

Before inspection: Current structural drawings and bar schedule, including revisions — Provides actual marks, layout, details and dimensions.

Before inspection: Project reinforcement specification and adopted standard edition — Supplies contractual product, tolerance, records and installation criteria.

Before inspection: Approved steel/coupler submittals and delivery traceability records — Links installed marks/products to evidence.

Before inspection: Project inspection, substitution and NCR procedures — Defines assigned roles, control points and closeout process.

How to use

1. Confirm physical scope, controlled documents, measurement method, required records and assigned roles.
2. Inspect a defined zone/lot; cite criterion and actual document revision for each check.
3. Record actual measurements only where required; attach traceability and photo evidence by reference.
4. For deviations, identify affected steel, prevent concealment where required, obtain written disposition and record recheck.
5. Keep field observations separate from designer approval and project release.

Important: Blank field checklist for project adaptation. Use actual approved documents and project acceptance criteria. Record only observations made. This is not design approval, a temporary-works certificate, contractual Hold/Witness Point release, or permission to place, strip or load.

Inspection record

Project: _____ Location / room / element: _____ Lot / area: _____

RE-01 Inspection package and reinforcement documents

What to observe	Identify element, pour/lot boundaries, current structural drawings, bar schedule, revisions and project inspection/check requirements.
How to check	Review the controlled document register against the element and schedule marks at the workplace; note superseded or conflicting copies.
Acceptance basis	Use current approved project drawings, bar schedule, specification and ITP; record unresolved conflict rather than choosing a revision.
Reference to verify	Controlled document register, approved structural drawings, bar schedule, reinforcement specification and project ITP.
Project criterion / actual approved document and revision	_____

Record field	Actual value / reference
element / grid	_____
drawing / rev	_____
bar schedule / rev	_____
open item ref	_____
Result / status (Pass / Fail / N/A / Pending)	
Inspector name / role / date	
Evidence / photo / report reference	
Issue / disposition / recheck evidence and date	

Inspection record

Project: _____ Location / room / element: _____ Lot / area: _____

RE-02 Delivery identity and traceability

What to observe	Inspect labels/tags, bundle or mesh marks and delivery documents for identity to scheduled bar marks, product description and source traceability required by the job.
How to check	Compare delivered bundles/mesh with schedule and dockets/certificates; link identity to storage location and element allocation.
Acceptance basis	Apply only project procurement/specification traceability requirements and scheduled marks; do not impose TMR registration unless adopted by contract.
Reference to verify	Approved bar schedule, material submittal, delivery docket and project traceability requirements.
Project criterion / actual approved document and revision	_____

Record field	Actual value / reference
delivery docket	_____
bundle / bar mark	_____
certificate ref	_____
allocated location	_____
Result / status (Pass / Fail / N/A / Pending)	
Inspector name / role / date	
Evidence / photo / report reference	
Issue / disposition / recheck evidence and date	

Inspection record

Project: _____ Location / room / element: _____ Lot / area: _____

RE-03 Storage and visible steel condition

What to observe	Observe stacking/separation, ground contact, physical damage, bends/kinks and visible contamination relevant to the specified product.
How to check	Walk stock before fixing; inspect representative bundles and suspect bars; photograph defects and identify affected marks.
Acceptance basis	Compare with project specification and approved material submittal; seek direction where condition may affect specified use.
Reference to verify	Project reinforcement specification, approved material submittal and written condition disposition.
Project criterion / actual approved document and revision	_____

Record field	Actual value / reference
bar mark / bundle	_____
storage location	_____
condition / photo ref	_____
disposition ref	_____
Result / status (Pass / Fail / N/A / Pending)	
Inspector name / role / date	
Evidence / photo / report reference	
Issue / disposition / recheck evidence and date	

Inspection record

Project: _____ Location / room / element: _____ Lot / area: _____

RE-04 Cut, bend and bar-mark conformity

What to observe	Compare installed cut/bent shapes, schedule marks and orientation with approved bending/bar schedule, including any project-controlled site re-bending.
How to check	Trace selected bars to bending schedule and inspect shape/orientation; review authorization and method for permitted field adjustment.
Acceptance basis	Use current approved schedule and project-approved fabrication/adjustment procedure; no generic bend radius, length or tolerance is supplied.
Reference to verify	Approved bar bending schedule and project-approved fabrication or field-adjustment procedure.
Project criterion / actual approved document and revision	_____

Record field	Actual value / reference
bar mark / location	_____
schedule shape / rev	_____
observed shape	_____
approval / disposition ref	_____
Result / status (Pass / Fail / N/A / Pending)	
Inspector name / role / date	
Evidence / photo / report reference	
Issue / disposition / recheck evidence and date	

Inspection record

Project: _____ Location / room / element: _____ Lot / area: _____

RE-05 Bar arrangement, spacing and layer position

What to observe	Observe installed bar marks, direction, layer, orientation and relative spacing against structural details, including congestion zones.
How to check	Check identified grids/sections using project measurement method; record actual readings where required by drawings/specification.
Acceptance basis	Use actual structural drawing, bar schedule and project tolerance; no universal spacing or tolerance applies.
Reference to verify	Approved structural drawings, bar schedule and project dimensional criteria.
Project criterion / actual approved document and revision	_____

Record field	Actual value / reference
grid / section	_____
bar marks / layer	_____
criterion / drawing ref	_____
actual measurement	_____
Result / status (Pass / Fail / N/A / Pending)	
Inspector name / role / date	
Evidence / photo / report reference	
Issue / disposition / recheck evidence and date	

Inspection record

Project: _____ Location / room / element: _____ Lot / area: _____

RE-06 Laps, anchorage, couplers and termination details

What to observe	Inspect shown splice locations/types, lap/anchorage arrangement, bar ends and coupler identity/engagement evidence specified for the element.
How to check	Compare critical locations with structural details; check product and installation records for specified mechanical splices.
Acceptance basis	Follow exact project drawings, adopted specification/standard and approved coupler submittal; do not infer lap lengths, embedment or coupler acceptance class.
Reference to verify	Structural splice/anchorage details, adopted project specification and approved coupler instructions.
Project criterion / actual approved document and revision	_____

Record field	Actual value / reference
splice / location	_____
detail / drawing ref	_____
product / batch	_____
installation / disposition ref	_____
Result / status (Pass / Fail / N/A / Pending)	
Inspector name / role / date	
Evidence / photo / report reference	
Issue / disposition / recheck evidence and date	

Inspection record

Project: _____ Location / room / element: _____ Lot / area: _____

RE-07 Supports, spacers and specified cover

What to observe	Observe chair/spacer product and placement, support contact/stability and reinforcement position relative to formed faces or substrate.
How to check	Inspect support type/locations; check project-identified cover points with suitable verified measuring method when required.
Acceptance basis	Use project cover schedule/details, accepted products and tolerances; record actual values where project calls for measurement.
Reference to verify	Project cover schedule, support/spacer details and approved products.
Project criterion / actual approved document and revision	_____

Record field	Actual value / reference
support / location	_____
cover criterion / ref	_____
actual cover / unit / method	_____
recheck evidence	_____
Result / status (Pass / Fail / N/A / Pending)	
Inspector name / role / date	
Evidence / photo / report reference	
Issue / disposition / recheck evidence and date	

Inspection record

Project: _____ Location / room / element: _____ Lot / area: _____

RE-08 Fixing, restraint and placement stability

What to observe	Observe ties/fixings, cage rigidity, support stability and displacement risk from planned worker access and documented placing method.
How to check	Review approved placing/access method; inspect congested, edge, opening and support zones; record project-required movement checks.
Acceptance basis	Use project-approved fixing details and construction/placement method; do not infer universal tie frequency or load resistance.
Reference to verify	Approved fixing details and concrete placement/access method.
Project criterion / actual approved document and revision	_____

Record field	Actual value / reference
zone / bar IDs	_____
fixing observed	_____
placing method ref	_____
direction / recheck ref	_____
Result / status (Pass / Fail / N/A / Pending)	
Inspector name / role / date	
Evidence / photo / report reference	
Issue / disposition / recheck evidence and date	

Inspection record

Project: _____ Location / room / element: _____ Lot / area: _____

RE-09 Surface, projection and reinforcement exceptions

What to observe	Observe contamination/coating or loose material that may affect specified performance, projecting bars at interfaces, and outstanding substitutions/NCRs.
How to check	Walk steel zone before concealment; cross-check substitution/NCR register and prior-pour interfaces; record condition and closeout reference.
Acceptance basis	Use project specification and written designer/project disposition; no blanket rust rejection threshold or cleaning rule is imposed.
Reference to verify	Project specification, approved substitutions and written NCR/designer dispositions.
Project criterion / actual approved document and revision	_____

Record field	Actual value / reference
zone / interface	_____
condition observed	_____
NCR / substitution ref	_____
action / closeout ref	_____
Result / status (Pass / Fail / N/A / Pending)	
Inspector name / role / date	
Evidence / photo / report reference	
Issue / disposition / recheck evidence and date	

Issues and corrective action

Project: _____ Location / room / element: _____ Inspection date: _____

Item / date	Issue and immediate action	Disposition / corrective instruction	Recheck evidence / date	Responsible role / reference

Unresolved items: identify affected area, status, person notified, instruction / NCR reference and any condition before concealment or next work.

Reinforcement inspection handover

Project: _____ Location / room / element: _____ Date: _____

Inspection record status

- ☐ Inspection record complete
- ☐ Action / recheck outstanding
- ☐ Design or project disposition required

This status records the steel inspection handover only. It does not mean ready to pour, approve reinforcement design, release a contractual control point, or authorize placement. Carry open items into the project ITP/pre-pour process.

Handover roles and references

Field inspector name / role / date _____
Receiving project role / date _____
Open NCR, RFI or disposition reference _____

Field inspector record

- Field inspector name/role/date _____
- Inspection lot, element and boundaries _____
- Observation and evidence references _____

Design check record

- Design document and revision _____
- Designer/checker identity and project-assigned role _____
- Design response/calculation/RFI reference _____

Project / contractual release record

- Release decision-maker role assigned by project/contract _____
- Decision status and conditions _____
- Basis: inspection/NCR references and control-point clause _____
- Date/time and notice/release record reference _____

Role boundary: Inspector records field observations; design author/checker and project release authority remain separate records/roles. This signature does not certify design, approve a substitution, release a Hold Point or authorize placement.

Signatures record the named person's stated role and entry only. They do not by themselves approve design, certify compliance, release a contractual control point or authorize the next activity.

Source notes

References explain topic and record design only. They do not supply universal project acceptance values. Confirm contract documents, jurisdiction and approved product/system.

Cavoren cast-in-place concrete baseline

Role: Topic and sequence context only; not a project specification or independent technical authority.

Locator: Original proposed concrete baseline rows CON-01 to CON-08

Source URL: <https://itp.cavoren.net/templates/concrete/>

Queensland TMR Ancillary MRTS71 Reinforcing Steel / ATS 5310, July 2025

Role: Topic guidance from a Queensland transport/infrastructure specification only. Do not import its values, registrations, frequencies, roles or hold points into general building work.

Locator: Clauses 1.1–1.4; 4.1; 5.1–5.19; 6.1–6.9; 7.1–7.8; 8.1–8.5; 9.1–9.9; Sections 10–12; Appendix A. TMR listing says ancillary harmonised specifications are information only and not for use in contracts.

Source URL: https://www.tmr.qld.gov.au/_/media/busind/techstdpubs/specifications-and-drawings/specifications/2-bridges-and-structures/mrts71.pdf?extension=pdf&hash=436D56549EF2693B1E5CC9DAD5DCF1D6&rev=c09d0ebf1e8149bfbab395d06076d9d1&sc_lang=en&size=695385

Queensland TMR MRTS70 Concrete, July 2022

Role: Topic guidance only for concrete/formwork interface. Queensland transport/infrastructure contract criteria are not universal building requirements.

Locator: Sections 15.5–15.9 (formwork/falsework, reinforcement, placement/compaction, early loading).

Source URL: https://www.tmr.qld.gov.au/_/media/busind/techstdpubs/specifications-and-drawings/specifications/2-bridges-and-structures/mrts70.pdf?extension=pdf&hash=BD4A48371C386F32622F6862572AA56A&rev=24517261eac44ddb86310c7980172050&sc_lang=en&size=1730809