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Basement Wall Reinforcement and Embeds (Vertical) Inspection

Basement Wall Reinforcement and Embeds (Vertical) Inspection interactive checklist: commentable, photo-ready, and export as PDF/Excel to verify spacing, cover, openings, sleeves, and embeds.

Project:	
Date:	
Filled by:	

Pre-Pour Documentation & Layout	
1	Confirm latest approved drawings, bar bending schedules, and submittals are issued-for-construction; record document numbers and dates with supervisor initials.
2	Mark control lines and benchmark references on reinforcement using paint marker; verify opening and sleeve centers within ±10 mm of layout.
3	Verify inspection and test plan (ITP) hold/witness points are scheduled; capture a photo of the ITP page signed by stakeholders.

Vertical Reinforcement Verification	
4	Measure vertical bar spacing with a calibrated tape; spacing shall match drawings within ±10 mm; photograph tape at two random bays.
5	Check bar size/grade against bar tags and approved submittal; record heat/lot numbers; photograph tags and a sample bar mark.
6	Verify lap splice lengths or coupler locations per approved project specifications and authority requirements; measure with tape and photo the measurement.
7	Confirm laps are staggered as detailed; ensure no lap terminates within congestion at openings; document with marked-up photo.
8	Check bar verticality using a plumb bob or digital level; deviation not to exceed project tolerance; record reading and location.

Concrete Cover & Support	
9	Verify spacer/cover block type and thickness match required cover; confirm non-corroding type; measure thickness with caliper and photograph.
10	Place spacers at required frequency and near laps/corners (≤600 mm spacing unless otherwise approved); photo a 1 m segment showing density.
11	Confirm rebar chairs and stand-offs are secured to reinforcement; shake test shows no displacement >5 mm; record video or photos.
12	Ensure tie wires are tight, tails bent inward; no sharp protrusions toward cover zone; photo close-ups at corners and laps.

Openings and Sleeves Coordination	
13	Verify openings' size and location against drawings within ±10 mm; measure from gridlines/benchmarks; photo tape readings on two axes.
14	Check trimmer bars, edge bars, and additional stirrups around openings as detailed; count and measure bar sizes; photo reinforcement cage.
15	Confirm sleeves are rigidly fixed, ends capped, and identified; ensure they do not cut or bend primary vertical bars; photo each cluster.
16	Verify sleeve clearances to reinforcement meet drawings; maintain minimum bar clearance per approved project specifications; document distances and sketches.

Embedded Items and Inserts	
17	Check embed plates, anchors, and inserts for size, projection, and orientation; use square and level; tolerance per drawings; photo each type.
18	Ensure threads are protected with caps or tape; verify weld studs and shear keys as detailed; photo condition and protection.
19	Confirm reinforcement is adequately tied around embeds to maintain cover and load paths; photo ties and any additional bars.

Records & Photos	
20	Compile a photo log: spacing checks, cover supports, openings, sleeves, embeds; annotate images and link to drawing references; obtain inspector signature.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Basement Wall Reinforcement and Embeds (Vertical) Inspection focuses on confirming vertical reinforcement, embedded items, openings, and sleeves are correctly set prior to concrete. This vertical rebar inspection helps ensure spacing, lap splices, couplers, and bar supports achieve the specified concrete cover. It also guides embed plate verification and sleeves and openings coordination so penetrations do not compromise the wall's structural performance or waterproofing intent. The checklist excludes formwork inspection, concentrating strictly on reinforcement, embeds, and penetrations within the wall cage. By following these steps, teams reduce rework, prevent clashes, and deliver a compliant, buildable arrangement ready for pour. Inspectors verify dimensions against approved drawings, confirm materials and marks against submittals, and record photo evidence and measurements. The outcome is a documented, auditable pre-pour record that supports acceptance "per approved project specifications and authority requirements." Use the interactive features to tick items, add comments and photos, and export results as PDF/Excel with a QR-secured link for rapid sharing.	1. Preparation: gather approved drawings, bar schedules, submittals, RFIs, calibrated tape, caliper, plumb bob or digital level, marker, camera/mobile app, and PPE; brief the crew on scope excluding formwork. 2. Open the checklist, select the project and wall segment, and confirm you are inspecting vertical reinforcement, embeds, openings, and sleeves only. 3. Start interactive mode; tick each item as verified, entering measured values and attaching photos showing instruments, readings, and grid references. 4. Use comments to flag nonconformities, assign actions with owners and due dates, and link RFIs or approved sketches. 5. When complete, review unresolved comments, add corrective evidence photos, and mark items closed with brief notes and initials. 6. Export the record as PDF/Excel; the system embeds a QR code for authentication and quick access to the source data. 7. Sign-off: obtain digital signatures from inspector and contractor representative; distribute to stakeholders and archive in the project QA system.