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Inspect precast façade panel lifting anchors & rigging

Inspect precast façade panel lifting anchors and rigging readiness using an interactive checklist that's commentable and can export as PDF/Excel for traceable, on-site sign-off.

Project:

Date:

Filled by:

Documentation & Identification

1	Match panel ID and lifting plan reference on tag and drawing; method: visual cross-check; acceptance: IDs and revision align exactly; evidence: photo of tag next to plan with initials.
2	Confirm calculated panel mass including reveals, coatings, and embedded items; method: quantity take-off vs as-built; acceptance: documented mass in kN; evidence: worksheet uploaded and signed.
3	Verify lifting plan approvals per approved project specifications and authority requirements; method: check stamp/date; acceptance: current approval present; evidence: photo of approval stamp.
4	Ensure rigging schematic is at lift area; method: laminated copy; acceptance: latest revision only; evidence: photo of posted schematic with date label.

Anchor Hardware & Embedded Components

5	Inspect cast-in anchors/ferrules for deformation and corrosion; method: mirror/borescope and thread gauge; acceptance: clean threads, no damage; evidence: close-up photos of each anchor.
6	Measure edge distances and embedment depth; method: caliper and cover meter; acceptance: within ± 5 mm of drawings; evidence: recorded readings per anchor.
7	Confirm anchor model and grade; method: compare casting marks and documentation; acceptance: exact match to plan; evidence: note heat/lot numbers and photo of stamp.
8	Trial-fit lifting clutches to anchors; method: manufacturer-compatible clutch only; acceptance: full engagement and lock indicator visible; evidence: photo/video of locked position.

Panel & Pick Geometry

9	Mark pick points and inspect surrounding concrete; method: visual and crack gauge; acceptance: no cracks > 0.2 mm within 150 mm radius; evidence: photos with gauge.
10	Verify reinforcement around anchors; method: cover meter/rebar scanner; acceptance: bars present per plan; evidence: scan map and marked photo.
11	Confirm center of gravity within rigging polygon; method: CoG calculation; acceptance: CoG offset ≤ 50 mm from design; evidence: signed calc sheet.
12	Check required sling angles; method: measure spread and sling length; acceptance: angle $\beta \geq 60^\circ$ or per plan; evidence: recorded angle in degrees.

Rigging Equipment & Configuration	
13	Inspect slings, shackles, clutches certifications; method: read tags; acceptance: in-date certificates; evidence: photos of tags and WLL (kN).
14	Verify sling diameter and D/d ratio at hardware; method: measure contact diameter; acceptance: D/d ≥ 3 wire rope, ≥ 1 chain; evidence: recorded values.
15	Set spreader bar length per plan; method: tape measure and pin position; acceptance: within ± 10 mm; evidence: photo of pin and scale.
16	Confirm total rigging WLL $\geq 2.0 \times$ panel weight; method: sum component WLL in kN; acceptance: safety factor ≥ 2.0 ; evidence: signed calc sheet.
17	Install taglines for control; method: 10–15 m ropes on corners; acceptance: minimum two taglines secured; evidence: photo prior to lift.
18	Torque shackle pins and accessories; method: torque wrench; acceptance: per manufacturer values; evidence: torque log with Nm readings.

Site & Lift Execution Readiness	
19	Establish exclusion zone; method: barriers and signage; acceptance: radius $\geq 1.5 \times$ panel height; evidence: site map photo.
20	Hold toolbox talk; method: pre-lift briefing; acceptance: roles, signals, hazards covered; evidence: attendance sheet with signatures.
21	Check weather and wind; method: anemometer at height; acceptance: wind ≤ 10 m/s or per plan; evidence: timestamped reading.
22	Conduct test lift to 200 mm; method: slow hoist; acceptance: no slip, rotation $\leq 5^\circ$; evidence: video clip and notes.
23	Verify dunnage and bearing pads at set-down; method: measure thickness and level; acceptance: level within ± 3 mm; evidence: photo with spirit level.
24	Capture final approvals; method: digital signatures in app; acceptance: supervisor, rigger, crane operator signed; evidence: signed record with QR.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect precast façade panel lifting anchors and rigging readiness helps supervisors, riggers, and QA leads verify safe lifting points and configuration before hoisting. This checklist focuses on precast panel lifting points, ring clutches, shackles, slings, spreader bars, and the required documentation that underpins a controlled lift. You will confirm anchor locations and embedment, clutch-to-anchor compatibility, sling angle geometry, total rigging working load limits, and site controls like exclusion zones and wind limits. By staying within this scope—pre-lift anchor condition and rigging readiness—you reduce the risks of anchor pull-out, panel cracking, unintended rotation, and suspended-load incidents. The outcome is a documented, repeatable process with measured evidence: edge distances, torque values, sling angles, calibration tags, and photo records linked to the panel ID and lifting plan. Use this interactive checklist to tick items, leave comments with photos, assign actions, and export as PDF/Excel with a secured QR code for quick on-site verification.	1. Preparation: gather lifting plan, panel drawings, approvals, and calibrated tools—calipers, cover meter/rebar scanner, torque wrench, anemometer, tape measure, crack gauge, PPE including gloves, eye protection, helmets, and high-visibility vests. 2. Stage rigging by panel: correct clutches, slings, shackles, spreader bar with pins, taglines, and cleaning tools; segregate by ID to avoid mix-ups. 3. Open the interactive checklist on a tablet or phone and select the specific panel ID and lifting plan revision to start a new inspection session. 4. Tick items as you inspect, attach photos, enter measurements (mm, kN, degrees), and reference documents; tag nonconformances with comments and assign owners and due dates. 5. Use the activity log to track resolutions; re-check corrected items and add evidence before marking them accepted to maintain a clear audit trail. 6. Export the completed, commentable record as PDF/Excel with a secured QR code that links back to the source inspection and attachments. 7. Sign-Off: obtain digital signatures from the supervisor, rigger, and crane operator; distribute to stakeholders and archive per project retention requirements.