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Review façade precast panel support and erection tolerances

Review façade precast panel support, bearing, and erection tolerances with an interactive checklist—commentable and export as PDF/Excel—to verify alignment, bearings, and connections on site.

Project:
Date:
Filled by:

Pre-Erection Verification	
1	Confirm latest drawings and panel IDs before lifting.
2	Verify panel mark numbers against delivery dockets and erection drawings; acceptance: 100% match; evidence: photos of tags and signed delivery log.
3	Survey support steel/concrete seats to control points using total station; tolerance: elevation within ±6 mm of datum or per approved specifications; upload survey file and annotated screenshots.
4	Confirm embed plates/inserts locations and thread condition with template and thread gauge; acceptance: hole/insert offset ≤10 mm from drawing; evidence: photos and gauge readings.
5	Check bearing pads type, hardness, and size against submittal; acceptance: dimensions within ±2 mm, correct durometer; evidence: packaging photo, lot/batch number, installed pad photo.

Bearing and Support Conditions	
6	Measure effective bearing length/width at each seat with steel rule; acceptance: length ≥50 mm and full pad contact, or per approved specifications; evidence: close-up photos with scale.
7	Inspect shim stacks for material, count, and seating; acceptance: as designed, stable stack with full contact, individual shim gaps ≤1 mm; evidence: photo before load transfer.
8	Verify grout bed/leveling nut arrangement per drawings; acceptance: grout thickness 10–25 mm uniform or nuts engaged ≥1.5× bolt diameter; evidence: measurements and batch ticket.
9	Confirm isolation/slip layers where specified to prevent restraint; acceptance: bond-breaker present and continuous at bearing; evidence: photo and material label.
10	Check corrosion protection of plates/bolts after handling; acceptance: coating intact, dry film thickness per approved specifications; evidence: DFT gauge readings and photos.

Panel Erection Alignment and Tolerances	
11	Measure panel plumb with total station/laser; tolerance: out-of-plumb ≤6 mm in 3 m and ≤12 mm overall height; evidence: survey report and marked photo.
12	Check top-of-panel elevation to control marks; tolerance: ±6 mm; evidence: laser level reading photo and recorded value.
13	Verify horizontal alignment to grid line using total station; tolerance: ±6 mm; evidence: points list and screenshot of layout.
14	Measure joint width at three locations per joint with feeler gauges; tolerance: design width ±6 mm, no abrupt change >3 mm; evidence: close-up photos.
15	Check face offset (step) between adjacent panels with straightedge; tolerance: ≤3 mm; evidence: straightedge photo with scale.
16	Assess twist/warp using diagonal string line or laser plane; tolerance: differential ≤6 mm corner-to-corner; evidence: measurement photo and note.
17	Install and verify temporary bracing per engineer’s plan; acceptance: location, angle, and anchor type correct; record brace ID and torque values.

Connections and Hardware	
18	Confirm bolt grade, length, washers, and coating per submittal; acceptance: correct components, threads undamaged; evidence: packaging photo and installed detail.
19	Tighten bolted connections to specified snug/torque; acceptance: torque within manufacturer range or as specified; evidence: calibrated wrench ID and readings.
20	Verify welded connections per drawings/WPS; acceptance: weld size not less than specified, free of visible defects; evidence: fillet gauge photo and welder ID.
21	Check slotted/adjustable connections maintain required movement clearance; acceptance: measured slot length and free gap per drawings; evidence: measurement photos.
22	Confirm anti-uplift/locking devices are engaged; acceptance: lock nuts set, keeper plates installed, residual gap ≤2 mm; evidence: photos and checklist initials.

Documentation and Sign-Off	
23	Record panel ID, location, lift time, and crew; acceptance: sequence matches erection plan; evidence: daily log entry.
24	Upload as-built survey with control sketch; acceptance: all measurement points included; evidence: PDF/DWG plus CSV of readings.
25	Capture final photos: full elevation, joints, supports, and connection close-ups; acceptance: clear, geotagged images; evidence: photo set attached.
26	Obtain digital approvals from site engineer and QC; acceptance: signatures and date/time stamp; evidence: signed checklist with QR link.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Review façade precast panel support, bearing, and erection tolerances is essential to deliver true, stable cladding. This checklist guides verification of precast cladding tolerances, panel alignment checks, and support-seat readiness before and during erection. You will confirm embed locations, bearing pads, shims, brackets, and connection hardware against approved drawings, then measure plumbness, joint width, and elevation with total station or laser tools. By controlling erection tolerances, you reduce cracked panels, binding connections, leaks, and rework. Scope covers façade precast only—support conditions, minimum bearing, temporary bracing, and final connections—not sealant performance, coating color, or thermal/structural design beyond what is shown on approved documents. All acceptances defer to approved project specifications and authority requirements where stricter. Use this as a field-ready sequence to measure, record evidence, and obtain timely sign-offs so cranes and crews stay productive and safe. Start interactive mode to tick items, add comments, and export your records to PDF/Excel with a QR link.	1. Preparation: Gather latest approved drawings, erection plan, submittals, total station/laser level, fillet and feeler gauges, calibrated torque wrench, DFT gauge, shims and pads, PPE, and access equipment. Establish control points and verify tool calibrations. 2. Using the Interactive Checklist: Start interactive mode, select location/elevation, and tick items as completed. Add comments with photos, survey files, and batch data. Tag issues for resolution and export running reports to PDF/Excel at milestones. 3. Sign-Off: Capture final survey and photo set, obtain digital signatures from the site engineer and QC, and generate an export. Share the QR-authenticated package with stakeholders and archive per project procedures.