Review Façade Interface—Frame & Edge Beam Geometry

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Chk id: 6520b5e1
Revision: 2026-11-03

Project	Location	Status

Date	Completed by

Pre-Survey & Documents

No.	Done	Check / Requirement	Result	Notes / Evidence
1	☐	Confirm latest approved structural, architectural, and façade drawings match intended setting-out datums and grids; record revision numbers and dates from document control.		
2	☐	Review movement criteria (interstory drift, thermal, creep/shrinkage) and edge beam camber from engineer’s model; note governing values and references per approved project specifications.		
3	☐	Establish and verify survey control tied to site benchmarks using total station; acceptance: traverse closure ≤ 1:10,000; attach control report and instrument calibration certificate.		
4	☐	Load façade lineworks/BIM overlays to field tablet; align to grid coordinates; acceptance: overlay residuals ≤ 3 mm; capture alignment screenshot as evidence.		

Structural Frame Geometry

No.	Done	Check / Requirement	Result	Notes / Evidence
5	☐	Measure column/plinth plumb at façade line using total station or laser plummet; acceptance: deviation ≤ 5 mm over 3 m; upload readings and marked photos.		
6	☐	Check finished floor level along façade grids with digital level and staff; acceptance: ±5 mm to datum; log benchmark, instrument height, and closed loop results.		
7	☐	Survey façade control points at every second grid; acceptance: plan offset to grid ≤ 3 mm; export CSV/DWG of points and station setup diagram.		
8	☐	Verify edge beam soffit elevation at anchor zones with rotary laser; acceptance: ±5 mm to design; provide photos with levelling staff and time-stamped readings.		
9	☐	Record measured camber and review predicted long-term deflection at slab edges; acceptance: façade adjustment allowance ≥ predicted residual; attach engineer confirmation note.		
10	☐	Assess tolerance stack-up (structure + bracket + panel) using a simple worksheet; acceptance: minimum 5 mm reserve capacity at critical joints; upload signed calculation sheet.		

Edge Beam & Slab Edge

No.	Done	Check / Requirement	Result	Notes / Evidence
11	☐	Check slab-edge straightness using 2 m straightedge and feeler gauges; acceptance: max gap ≤ 5 mm; annotate locations on plan and attach photos.		
12	☐	Measure slab-edge horizontal position relative to grid via total station; acceptance: ±10 mm; provide coordinate table and plotted deviation diagram.		
13	☐	Verify edge beam thickness and upstand/setdown dimensions using steel tape/laser; acceptance: ±5 mm; mark readings on elevation/section and photograph with scale.		
14	☐	Inspect concrete quality at future fix zones; acceptance: no honeycombing/voids beyond minor cosmetic repair per approved project specifications; upload high-resolution close-ups.		
15	☐	Locate reinforcement and cover along anchor lines using cover meter/ferroscan; acceptance: per approved project specifications and authority requirements; attach scan maps and min/max cover values.		
16	☐	Check slab-edge chips/spalls and arrises; acceptance: defects repaired or within allowable per approved project specifications; include before/after repair photos.		

Façade Support & Anchors

No.	Done	Check / Requirement	Result	Notes / Evidence
17	☐	Verify cast-in anchors/plates coordinates and levels with total station; acceptance: within ±5 mm in X/Y/Z; upload point cloud or coordinate check report.		
18	☐	Confirm anchor edge distances and embedment using ferroscan and calipers at trial holes; acceptance: not less than design minima per approved project specifications; record measured values.		
19	☐	Check bracket adjustment capacity (slots/shims) against measured as-built offsets; acceptance: minimum ±10 mm residual adjustment after set-out; attach manufacturer datasheet and photos.		
20	☐	Dry-run a representative bracket installation using shop template and fixings; acceptance: holes align without drilling/rework; capture sequence photos and installer sign-off.		

Tolerances & Movement

No.	Done	Check / Requirement	Result	Notes / Evidence
21	☐	Measure target vertical/stack joint widths at a control bay using feeler gauges; acceptance: within design ±3 mm pre-install; note bay ID and readings.		
22	☐	Verify thermal expansion gaps and sealant cavity depth at head/sill mock-ups by depth gauge; acceptance: meets design minima; attach close-up images with scale.		
23	☐	Confirm interstory drift gaps along slab edges are unobstructed by services; acceptance: clear gap ≥ design requirement; provide tape measurements and clash photos.		
24	☐	Check sill/drip geometry and falls with digital inclinometer; acceptance: falls ≥ 1:100 toward exterior; upload angle readings and annotated photos.		

Coordination & Records

No.	Done	Check / Requirement	Result	Notes / Evidence
25	☐	Run clash review at façade zone in federated model; acceptance: no hard clashes within a 50 mm corridor; attach coordination snapshots and issue log.		
26	☐	Publish as-built survey pack (PDF/DWG) with deviations, photos, and approvals; acceptance: digital signatures by structural and façade leads; store in project CDE.		

Comments / Follow-up

Checklist guidance

Review façade interface with structural frame and edge beam geometry is essential to prevent misalignment, rework, and weatherproofing failures at the building envelope. This checklist focuses on façade-to-structure coordination at slab edges, edge beams, and anchor zones, ensuring accurate setting-out, bracket fit-up, and movement accommodation. It addresses related tasks such as slab edge survey, edge beam alignment, bracket adjustment range confirmation, and verification of interstory drift and thermal allowances. The scope excludes façade panel fabrication quality, sealant application, and firestopping materials, but captures their controlling dimensions and interfaces. By confirming datums, tolerances, and buildability early, project teams reduce site cutting, drilling, and patch repairs while protecting design intent and warranty obligations. Use this tool to document measurements, photos, and approvals per approved project specifications and authority requirements, supporting transparent sign-offs and traceable decisions. Start interactive mode to tick, add comments with photos, and export as PDF/Excel via a secure QR code link for field sharing.

1. Preparation: calibrate total station, digital level, and inclinometer; charge tablets; print control bay plans; bring ferroscan, straightedge, feeler gauges, PPE, and access equipment.

2. Load latest approved drawings/BIM,

survey control, and tolerance criteria into the app; confirm revision status in the project CDE.

3. Create a new inspection, assign grids/elevations, and add responsible reviewers; predefine required evidence (photos, CSV points, signatures).

4. Using the Interactive Checklist: start interactive mode, tick items as measured, attach photos/CSV, and add comment threads for nonconformances.

5. Export and Share: generate an export as PDF/Excel and share the QR code for quick field access and verification.

6. Sign-Off: capture digital signatures from structural and façade leads; archive in the CDE with versioning and access controls.

Tick the box when complete. Record Not done or N/A in Result and note any follow-up.