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Inspect façade as-built dimensions & elevation survey

Inspect façade as-built dimensions and completed elevation survey with an interactive checklist that's commentable and export as PDF/Excel, ensuring traceable, QR-secured acceptance records.

Project:

Date:

Filled by:

Survey Control & Equipment

1	Confirm calibration certificates for total station, digital level, and laser distance meter are current and traceable.
2	Inspect and mark two independent site benchmarks; verify loop closure $\leq 1:10,000$ using digital level; record readings and photos.
3	Set instrument height and prism constants; perform EDM distance check against known baseline (± 2 mm or better); save verification sheet.
4	Check tripod stability and line-of-sight; document weather/temperature; repeat measurements if heat shimmer or wind affect targeting.

Horizontal Control & Grid

5	Occupy control point; backsight a second control; ensure angular misclosure $\leq 10''$; capture setup photo with point IDs visible.
6	Verify gridline intersections at façade reference points; tolerance ± 5 mm to design coordinates; export CSV and mark-up drawing.
7	Check anchor/insert layout positions with total station; acceptance ± 5 mm from issued shop drawings; tag each point ID on photo.
8	Confirm straightness of façade baseline using string line/total station; deviation ≤ 3 mm over 10 m; record start/end readings.

Vertical Datum & Elevations

9	Transfer site datum to façade elevation marks with digital level; closure between forward/back runs $\leq \pm 3$ mm; stamp datum tags.
10	Measure sill, head, and floor slab edge elevations at each grid bay; acceptance ± 3 mm to design; attach level book snapshots.
11	Verify panel-to-panel step at transoms; allowable offset ≤ 2 mm; use straightedge and feeler gauges; photo evidence required.
12	Check parapet/ coping top elevation continuity; deviation ≤ 5 mm across elevation; record benchmark ties and annotated images.

Façade Geometry & Plumbness	
13	Measure panel corner coordinates with total station; compare to model; acceptance ± 5 mm; export differential report per panel ID.
14	Assess vertical plumbness with plumb laser or inclinometer; deviation ≤ 3 mm per 3 m height; log readings by bay.
15	Check face bow/warp using 2 m straightedge; local deviation ≤ 2 mm; capture raking-light photos to evidence flatness.
16	Confirm joint width uniformity at mullions/transoms; tolerance ± 2 mm to design gap; record at corners, mid-span, and splices.

Openings, Interfaces & Joints	
17	Measure clear opening width/height for doors/windows with laser meter; acceptance ± 5 mm; include head/sill/ jamb photos with scale.
18	Verify alignment of vision and spandrel bands across bays; step ≤ 3 mm; annotate elevations highlighting measurement points.
19	Check interface coordinates for adjacent systems (balustrades, shades); tolerance ± 5 mm; attach overlay comparing to approved details.
20	Confirm sealant joint depth/backer rod position by probe; location tolerance ± 3 mm; record lot numbers and close-up photos.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect façade as-built dimensions and completed elevation survey is a structured verification process confirming the built façade's geometry and levels match design intent. This checklist guides façade elevation verification, as-built survey capture, and tolerance assessment using total stations, GNSS/RTK, and digital levels tied to a known datum and control grid. The scope covers external façade lines, panel locations, joint widths, opening sizes, and benchmarked elevations after installation is completed and accessible. It excludes internal fit-out, structural frame erection checks, and separate cladding performance testing. By following these steps, teams reduce rework, prevent misaligned panels, avoid water ingress from uneven joints, and ensure interfaces align with curtain wall, windows, and anchors. Outcomes include traceable measurements, clear acceptance cues, and sign-off per approved project specifications and authority requirements. Start interactive mode to tick items, add field comments with photos, and export results as PDF/Excel with a secure QR code for authentication.	1. Preparation: Gather total station, digital level, laser distance meter, prisms, targets, straightedge, feeler gauges, calibrated tapes, tripod, tablets, PPE (helmet, eye protection, gloves, hi-vis), and access permissions. 2. Site Readiness: Confirm façade access (MEWPs or scaffold), clear line-of-sight to control, latest approved drawings/BIM, and safe exclusion zones below work areas. 3. Open the interactive checklist on your device, select the project, and enable offline mode if connectivity is limited. 4. Tick items as completed, attach photos and files to each step, and add comments noting instrument IDs, point IDs, and environmental conditions. 5. Use the variance fields to enter measured versus design values and flag nonconformities for corrective action tracking. 6. Export interim results as PDF/Excel for team reviews; share links with subcontractors and consultants for timely feedback. 7. Sign-Off: Collect digital signatures from the façade subcontractor, main contractor QA, and consultant; lock the record and generate a QR-authenticated report.