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Review Façade Aluminum Cladding Joint & Module Coordination

Review façade aluminum cladding joint layout and panel module coordination with an interactive checklist that is commentable and export as PDF/Excel for compliant, aligned, watertight façades.

Project:

Date:

Filled by:

Pre-Survey & Documents

1	Confirm latest approved façade shop drawings, BIM views, and panel schedules are issued-for-construction and supersede prior revisions; cross-check title blocks and revision dates.
2	Verify specified panel module sizes and joint width tolerances on drawings; measure sample panels with steel tape/calipers; acceptance: module within drawing tolerance, joint per spec; capture photos and revision references.
3	Review documented thermal movement allowances and slotted fixing details; confirm perimeter and inter-panel movement gaps meet design; acceptance: allowances per approved calculations; record designer approval and mark-up extracts.
4	Confirm mock-up or first-of-kind panel bay was approved for joint layout and module coordination; acceptance: signed mock-up inspection; attach photos and approval signatures.

Grid & Control Lines

5	Transfer primary grid to the façade using a total station from calibrated benchmarks; acceptance: grid points within ± 3 mm over 30 m; upload survey report and coordinate file.
6	Strike durable vertical and horizontal control lines on structure/substrate with ink line and reference tags; acceptance: lines legible and protected; photo evidence with scale and date.
7	Measure slab edge and wall flatness across panel runs using 2 m straightedge and laser; acceptance: deviation not exceeding ± 5 mm in 3 m; record readings and highlight high/low zones.
8	Check embedded anchors/inserts against grid coordinates with tape/total station; acceptance: within ± 5 mm of setting-out; document as-built points and mark any relocations.

Subframe & Brackets	
9	Confirm bracket stand-off range accommodates measured substrate deviations; acceptance: minimum 10 mm spare adjustability after plumb/level; record bracket sizes and remaining adjustment.
10	Verify isolators/thermal pads at bracket interfaces per details; acceptance: continuous, correctly oriented, and undamaged; photo each bracket type and lot numbers.
11	Set vertical rails plumb and horizontal rails level using laser and digital level; acceptance: ± 2 mm in 2 m and ± 3 mm overall bay; attach level readings and laser snapshots.
12	Check fixing type, spacing, and torque against manufacturer data; use calibrated torque wrench; acceptance: torque within specified range; record actual values and fastener batch certificates.

Joint Layout & Tolerances	
13	Measure nominal joint width with feeler gauges at 3 points per panel edge; acceptance: as per drawing with $\leq \pm 2$ mm variation between adjacent joints; log values and photos.
14	Check vertical and horizontal joint alignment across panel intersections; use string line/laser; acceptance: offset at crosses ≤ 3 mm; capture close-up photos with ruler.
15	Assess cumulative joint drift across each elevation bay; compare to control line; acceptance: drift not exceeding ± 5 mm over 10 m; record plotted drift chart.
16	Verify expansion and perimeter joints at corners, slab edges, and movement breaks are clear of obstructions; acceptance: free gap per approved details; photo gaps with gauges.

Module Coordination & Interfaces	
17	Coordinate panel modules with window and louvre openings using as-built survey; acceptance: reveals equalized; no cut piece below minimum size per drawings; upload marked elevations.
18	Confirm panel IDs, orientation, and handing match the layout map; scan QR/labels; acceptance: zero swaps in bay; attach label photos and tracking log.
19	Check corner returns and edge trims for consistent dimensions and joint continuity; measure with tape; acceptance: dimensions within drawing tolerance; provide photos of both faces.
20	Verify clearances at penetrations, brackets, and services; use feeler gauge; acceptance: clearance per approved details without hard contacts; record locations and corrective notes.

Weathering, Fire & Sealants	
21	Confirm drained/ventilated cavity continuity and vent/weep locations remain unobstructed after module coordination; acceptance: vents clear and insect mesh intact; photo each typical.
22	Verify fire barriers align with horizontal joints and close cavity at required locations; acceptance: continuous contact per approved project specifications; capture tags, batch data, and photos.
23	Inspect flashings/back pans at heads and sills for continuity; acceptance: laps and seals per approved details; document sealant/band tape batch numbers and close-ups.
24	Check sealant joints where specified: backer rod placement and sealant depth with probe; acceptance: profile per manufacturer data sheet; record batch, application date, and cure checks.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Review façade aluminum cladding joint layout and panel module coordination is critical to achieving a straight, watertight, and code-compliant façade. This checklist focuses on rainscreen cladding joints, façade modular coordination, and panelization alignment against control grids and subframes. It excludes unrelated items such as structural glazing design, curtain wall system engineering, or installation sequencing beyond layout verification. By checking grid transfer, subframe plumbness, joint width tolerances, cumulative drift, expansion allowances, and interfaces with windows, corners, and penetrations, teams prevent stepped joints, binding panels, water tracking, fire barrier discontinuities, and costly rework. The outcome is repeatable joint geometry, predictable module fit, and coordinated cuts that respect minimum piece sizes and manufacturer requirements. Evidence-based methods—total station surveys, laser levels, feeler gauges, and photo records—support rapid approval and clear traceability per approved project specifications and authority requirements. Start in interactive mode to tick items as you go, tag comments where deviations occur, and export results to PDF/Excel with a secure QR for sign-off.	1. Preparation: Gather approved shop drawings, panel schedules, BIM views, survey benchmarks, manufacturer data sheets, and mock-up approvals. Bring a total station, laser level, 2 m straightedge, digital level, feeler gauges, torque wrench, steel tape, depth probe, PPE, and QR-enabled device. 2. Site readiness: Confirm access equipment is certified, work areas are clean and safe, and subframe works are available for inspection. Brief stakeholders on target tolerances and evidence requirements per approved project specifications and authority requirements. 3. Start interactive mode: Open the checklist, select location/elevation, and enable tick-and-comment. Scan or attach drawing revisions, panel IDs, and survey files so each item references current documents. 4. Execute checks: Measure, photograph with scales, and record readings at the frequency defined in the items. Add comments for deviations, assign actions to responsible parties, and tag due dates. 5. Coordinate and resolve: Use comments to agree on adjustments (e.g., re-shim rails, rebalance reveals). Upload updated mark-ups and obtain designer/quality approvals before proceeding to adjacent bays. 6. Export and sign-off: Generate an export as PDF/Excel with embedded photos, measurements, and marked drawings. Apply digital signatures, distribute to stakeholders, archive to the project CDE, and store the QR-authenticated record.