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Inspect aluminum cladding support framing pre panel install

Inspect aluminum cladding support framing before panel installation using an interactive checklist. Commentable steps log measurements and torque; export as PDF/Excel with QR-secured sign-off and compliance.

Project:	
Date:	
Filled by:	

Pre-Installation Safety & Documentation	
1	Review approved shop drawings, method statements, and permits per approved project specifications and authority requirements; verify latest revisions; capture photos of approval stamps and record revision numbers.
2	Hold a toolbox talk and PPE check for cladding works; use a sign-in sheet; acceptance is all attendees signed and PPE present; upload the signed attendance photo.
3	Confirm current manufacturer datasheets/ETA for anchors, brackets, and rails; record batch/lot numbers; photograph packaging labels and attach certificates of conformity.
4	Verify torque wrench calibration within the last 6 months; check certificate number and date; acceptance is valid calibration; upload certificate photo.

Substrate & Layout Verification	
5	Survey façade control lines with a total station; mark vertical/horizontal gridlines; acceptance is variance ≤ ±3 mm over 10 m; attach survey CSV/DXF and mark-up photos.
6	Check substrate plumbness and level using a laser level and 2 m straightedge; acceptance is ≤ 3 mm deviation per 2 m; upload measurement photos.
7	Inspect substrate at fixing zones; remove laitance/debris; take moisture readings with a meter; acceptance is within manufacturer limits; record % readings and photos.
8	Confirm movement joint locations and clearances match drawings; ensure no brackets bridge joints; acceptance is clear gap per specification; photograph with a ruler for scale.

Brackets & Anchors	
9	Verify bracket type, length, isolator thickness, and finish match shop drawings; acceptance is correct model/size; photograph product labels and installed samples.
10	Set out bracket centers using chalk line/laser; dry-fit marks and pilot holes; acceptance is spacing within ±5 mm of drawings; log measurements and photos.
11	Install test anchors at representative locations; apply torque per datasheet using a calibrated wrench; acceptance is achieved torque (N·m) meets datasheet; upload gauge close-ups.
12	Measure anchor embedment depth and edge distance with a depth gauge and tape; clean holes with brush/blow-pump; acceptance is ≥ datasheet requirements; record mm values and method used.

Rails & Members	
13	Shim and align vertical rails; check plumb with laser and spirit level; acceptance is plumb within 2 mm per 2 m; document shim material and thickness with photos.
14	Check rail plane flatness using a taut string line across three rails; acceptance is ≤ 2 mm deviation over 3 m; attach photos and measurement log.
15	Measure thermal expansion gaps at rail joints with a feeler gauge; acceptance is within specification ±1 mm; record measured gaps and photograph gauges in place.
16	Confirm fastener grade/coating, washers, and torque per datasheet; use a calibrated driver/wrench; record torque values (N·m) and capture head-marking photos and lot numbers.

Thermal & Moisture Considerations	
17	Ensure isolators/separation pads between dissimilar metals are continuous; acceptance is 100% coverage with no gaps; upload close-up photos at each bracket.
18	Verify cavity ventilation/drainage depth with a ruler; acceptance is depth per spec (e.g., ≥ 25 mm) and clear path at base/head; photograph measurements.
19	Inspect air/water barrier continuity; patch penetrations with approved tape and roller; acceptance is no tears or gaps; upload before/after photos.
20	Check perimeter fire-stopping at slab edges and openings; confirm continuity and product labels visible; acceptance is no unsealed gaps; record product/batch and photos.

Compliance & Sign-Off	
21	Perform an as-built survey of bracket/rail coordinates using a total station; acceptance is offsets ≤ ±5 mm from model; upload CSV/DXF and annotated photos.
22	Verify datum lines for panel setting out using a laser; acceptance is top/bottom/left/right datums within ±2 mm; record readings and reference control points.
23	Tag inspected zones with QR code stickers linked to this checklist; acceptance is successful scan; record zone grid reference and attach photos.
24	Obtain supervisor and QA approvals prior to panel delivery; acceptance is digital signatures captured; status marked “Ready for Panels”; export the report.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect aluminum cladding support framing before panel installation. This checklist focuses on façade subframe inspection for aluminium rainscreen systems—brackets, anchors, rails, isolators, and datum control—completed before any panels are delivered. You'll verify substrate condition, bracket spacing, anchor torque, rail plumbness and flatness, drainage cavity depth, fire-stopping continuity, and moisture barrier integrity. By confirming tolerances and capturing evidence early, teams avoid misalignment, oil-canning, water ingress, bimetallic corrosion, and schedule-slipping rework. The scope excludes panel fixing, joint gapping, sealant finishing, and post-install cleaning; those are addressed in the panel installation checklist. Outcomes include a level, plumb, and documented support structure that is ready for efficient panel hanging and compliant handover per approved project specifications and authority requirements. Use this interactive, commentable list on a tablet or phone: tick items, attach photos, log torque and measurements, and export your sign-off as PDF/Excel with a secure QR.	1. Preparation: Gather shop drawings, specifications, calibrated torque wrench, laser level, total station, 2 m straightedge, depth gauge, moisture meter, PPE, and manufacturer datasheets. Confirm access, lighting, and safe working platforms. 2. Project setup: Create zones by grid/elevation, upload drawings, and map tolerances. Add anchor/bracket/rail product references and required evidence fields (photos, torque N·m, mm readings, batch numbers). 3. Start interactive mode: Open the checklist on a tablet/phone. Tick items as completed, add comments for issues, geo■tag or note grid references, and attach photos directly at each step. 4. Capture definitive evidence: Record measurements in SI units, photograph gauges and labels, scan QR codes on materials, and link certificates. Use issue flags to assign corrective actions with due dates. 5. Resolve and re■verify: After corrections, rescan the zone's QR, retake measurements, and close issues with before/after photos and updated readings for transparent traceability. 6. Sign-Off and export: Capture digital signatures from supervisor and QA, mark the zone "Ready for Panels," then export as PDF/Excel. Archive the QR-authenticated report for distribution and audit.