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# Inspect aluminum cladding fasteners and concealed fixing

Inspect aluminum cladding fasteners and concealed fixing systems with an interactive checklist, commentable, and export as PDF/Excel for compliant, traceable façade installations.

Project:

Date:

Filled by:

## Pre-Installation & Documentation

|   |                                                                                                                                                                |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Verify current documents and readiness.                                                                                                                        |
| 2 | Confirm latest approved shop drawings, method statements, and ITP are issued; record document numbers, revisions, and RFI closures; attach digital copies.     |
| 3 | Verify installer competence and manufacturer approvals; capture training certificates, toolbox talk attendance, and system license letters; obtain signatures. |
| 4 | Check torque tools, depth gauges, calipers, and pull-testers are calibrated; record serial numbers and calibration dates ( $\leq 6$ months); photo each tag.   |

## Materials & Components

|   |                                                                                                                                                                                |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5 | Confirm aluminum panel alloy, temper, and thickness per approved specifications; verify mill certificates; measure thickness with micrometer ( $\pm 0.1$ mm); photo labels.    |
| 6 | Verify fastener material and coating per approved project specifications; check packaging lot numbers; magnet test indicates non-ferrous or austenitic stainless; record lots. |
| 7 | Inspect concealed fixings (undercut anchors, kerf clips, rail hooks) match system submittal; use manufacturer go/no-go gauges; reject damaged parts; log batch certificates.   |
| 8 | Check isolation tapes/pads (EPDM/PE) and thermal breaks meet thickness per submittal; confirm with feeler gauge ( $\pm 0.2$ mm); photo installation samples and packaging.     |

## Substructure & Isolation

|    |                                                                                                                                                                             |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9  | Survey rails and brackets with laser; deviation $\leq 2$ mm over 2 m; mark corrections; keep level/verticality photos with measuring scale.                                 |
| 10 | Verify substrate anchor pull-out tests completed; compare to required capacities per approved project specifications; attach test reports and calibrated gauge screenshots. |
| 11 | Install and confirm isolation between dissimilar metals at all contacts; continuous gasket coverage, no gaps; photo start/mid/end bays; record product batch.               |
| 12 | Check thermal break pad positioning and continuity at brackets; gaps $\leq 3$ mm; verify adhesive bond by probe; document lot numbers and elevation locations.              |

| Fasteners & Concealed Fixings |                                                                                                                                                                    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13                            | Verify pilot hole diameters and edge distances per system guide; measure with calipers; record hole size and nearest edge distance; photo close-ups with scale.    |
| 14                            | Set undercut anchors using approved setting tool and depth stop; verify embedment depth with depth gauge ( $\pm 0.5$ mm); capture installation and gauge readings. |
| 15                            | Apply specified torque to screws/bolts with calibrated wrench; record achieved N·m per panel; no head stripping or washer extrusion; retain torque log.            |
| 16                            | Confirm clip/rail engagement fully seated without deformation; use feeler gauge to verify required clearances per system; document measured gaps and panel IDs.    |

| Installation & Alignment |                                                                                                                                                                         |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17                       | Check panel plumb/level with 2 m straightedge and laser; lippage $\leq 2$ mm; joint width uniform $\pm 1$ mm; photo with ruler or gauge.                                |
| 18                       | Set movement gaps per ambient temperature; record ambient ( $^{\circ}\text{C}$ ) and applied gaps; reference manufacturer movement tables; obtain witness sign-off.     |
| 19                       | Verify cavity ventilation and drainage continuity behind rainscreen; minimum cavity depth per approved specifications; photo probe showing depth and unobstructed path. |
| 20                       | Protect surfaces during drilling/setting; remove swarf; progressively remove protective film; no adhesive residue; document cleaning method and timing with photos.     |

| Verification & Handover |                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 21                      | Perform sample pull tests on installed fasteners with approved tester; apply load and hold time per specifications; record readings and pass/fail by location.              |
| 22                      | Inspect seals or tapes at panel interfaces where specified; record product, batch, and cure time; photo before/after; measure wet/dry film thickness if coatings applied.   |
| 23                      | Complete lot-based inspection records for each elevation bay; attach geo-tagged photos, torque logs, and material certs; obtain installer and QA signatures.                |
| 24                      | Close NCRs and punch items; conduct joint walkdown with consultant/client; capture digital sign-off; archive package with QR-linked evidence and revision-controlled files. |

**Comments:**

Filled by:

Signature:

| Introduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | How to use this checklist                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Inspect aluminum cladding fasteners and concealed fixing systems to ensure panels are secured with the right hardware, correctly torqued, isolated from galvanic risk, and aligned to specified tolerances. This checklist focuses on rainscreen cladding assemblies using hidden fixings such as undercut anchors, kerf clips, and rail hooks, alongside any limited visible screws or rivets. We verify material compatibility, bracket and rail geometry, edge distances, cavity ventilation, and movement joints per approved project specifications and authority requirements. The scope is limited to mechanical attachment quality, not full façade fire strategy or structural design calculations. By applying calibrated tools, recording lot numbers, and checking embedment depths, you avoid panel slippage, oil-canning, water ingress, and premature corrosion. The outcome is a consistent, traceable installation with documented torque, alignment, and pull-test records that support handover and warranty. Start in interactive mode to tick steps, add comments and photos, and export PDF/Excel with a secure QR for field validation.</p> | <p>1. Preparation: gather approved drawings, submittals, ITP, calibrated torque wrench, depth gauge, calipers, feeler gauges, 2 m straightedge, laser level, pull-tester, PPE, and access permits. 2. Open the interactive checklist; select project, elevation, and bay. Preload drawings and system manuals; scan the QR to link field photos to the correct location. 3. Conduct inspections step-by-step. Tick items as verified, capture photos with scales, and enter measured values (N·m, mm, °C) and batch or serial numbers. 4. Using the Interactive Checklist: add comment threads for findings, tag responsible parties, assign due dates, and track closures for NCRs or punch items. 5. Export results to PDF/Excel with embedded photos and logs. Share with installers, QA/QC, and consultants; store in the project document control system. 6. Sign-Off: capture digital signatures from the installer and QA/consultant. Archive the package and verify QR authentication for on-site validation.</p> |