



Inspect perforated metal façade panel installation – framing

Inspect perforated metal façade panel installation and support framing using an interactive checklist that is commentable and can export as PDF/Excel. Log proof.

Project:

Date:

Filled by:

Pre-Installation Conditions

1	Verify approved shop drawings, perforation pattern, finish, and sample references against on-site materials; method: submittal cross-check; acceptance: exact type/finish match; evidence: photos of approvals and marked drawings.
2	Confirm substrate flatness ≤ 5 mm over 2 m using a 2 m straightedge and feeler gauges; record locations and readings; evidence: photos with gauges in place.
3	Check weather/air barrier continuity behind façade; method: visual plus smoke pencil at penetrations; acceptance: no gaps, sealed terminations; evidence: close-up photos and marked plan.
4	Verify layout grid, control lines, and datum elevations using a total station; acceptance: set-out within ± 3 mm; evidence: as-built layout screenshot and staked reference photos.

Support Framing and Anchors

5	Inspect carrier rails and T/L profiles for straightness ≤ 2 mm over 2 m; method: straightedge and feeler; evidence: photos along rail length showing gauge.
6	Verify anchor type, embedment, and edge distance per approved project specifications and authority requirements; method: bit depth stop and measure; evidence: depth readings and anchor batch labels.
7	Torque-test mechanical anchors with a calibrated wrench; acceptance: within $\pm 10\%$ of manufacturer value; evidence: torque log with serial numbers and dated calibration certificate.
8	Confirm thermal isolators and galvanic separation at brackets and rails; method: visual inspection and thickness gauge; acceptance: full bearing coverage, no gaps; evidence: close-up photos per bracket type.

Panel Handling and Installation

9	Verify panel IDs and orientation match elevation drawings; method: label and arrow check; acceptance: correct perforation direction; evidence: photo of label against marked elevation.
10	Inspect cut edges/penetrations deburred and sealed with approved coating; acceptance: continuous film, no bare metal; evidence: before/after close-ups and product data reference.
11	Confirm panel fasteners type/finish per schedule; method: magnet test, head profile inspection, and caliper; acceptance: heads seated flush, no panel distortion; evidence: macro photos.
12	Tighten panel fixings to specified torque or perform sample pull-out tests; acceptance: torque within $\pm 10\%$ or pull-out $\geq$ design; evidence: readings and test photos.

Alignment, Joints, and Tolerances	
13	Check panel plumb/level using 600 mm level and laser; acceptance: ≤ 3 mm per 3 m and local ≤ 2 mm; evidence: photos showing bubble/laser line.
14	Measure joint widths and reveals; method: feeler gauge and ruler; acceptance: target per drawing, uniformity ± 2 mm; evidence: 1 m run photos with gauge visible.
15	Verify clearances to window/door frames; method: tape measure; acceptance: 10–20 mm unless otherwise detailed; evidence: measurements at head, jamb, sill.
16	Inspect corners, returns, and termination trims for secure fixing; acceptance: gaps ≤ 2 mm, no sharp edges; evidence: close-ups before adjacent closure.

Corrosion Protection and Drainage	
17	Check coatings/finishes on panels and rails; method: visual or holiday detector for coated steel; acceptance: no exposed base metal; evidence: defect map and photos.
18	Confirm drainage/weep paths at sills and base are clear; method: visual/borescope; acceptance: unobstructed paths and intact insect mesh; evidence: photos every 2 m.
19	Verify sealants, gaskets, and isolators are compatible and in date; method: datasheet cross-check; acceptance: shelf-life valid on install date; evidence: product labels and datasheets.
20	Confirm stainless fastener grade and prevent carbon steel contamination; method: magnet test/PMI spot check; acceptance: correct grade, clean surfaces; evidence: photos of markings.

Documentation and Closeout	
21	Capture as-built photos per elevation grid (every 3 m and details); acceptance: full coverage; evidence: organized folders named by gridline and date.
22	Record batch/serial numbers for panels, anchors, and sealants; method: photo labels into register; acceptance: 100% traceability; evidence: uploaded register file.
23	Verify cavity barriers or fire-stopping at prescribed locations before closure; method: visual and measurement; acceptance: continuous installation; evidence: photos and inspector signature.
24	Complete snag list and close actions; method: punch list app; acceptance: all items resolved and signed by stakeholders; evidence: final sign-off sheet and date-stamped photos.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect perforated metal façade panel installation and support framing to ensure the rainscreen subframe, carrier rails, and perforated cladding are installed to drawings and approved project specifications. This checklist targets panel alignment, bracket anchorage, joint uniformity, corrosion protection, and drainage continuity while maintaining traceability of materials and approvals. By focusing on the subframe interfaces, thermal isolation, and panel fixings, you avoid common risks such as water ingress, galvanic corrosion, rattling panels, pattern misalignment, and warranty issues. The outcome is a façade that meets aesthetic intent, maintains structural reliability under wind loads, and preserves ventilation and drainage performance over its service life. Use this as a live, field-ready inspection tool to record torque readings, lot numbers, calibrated measurements, and as-built photos. Start interactive mode, tick items, add comments, assign actions, and export your records to PDF/Excel with a secure QR for verification.	1. Preparation: Review drawings, method statements, and permits. Gather calibrated torque wrench, 2 m straightedge, spirit level, laser, feeler gauges, tape, borescope, PPE, access equipment, and camera. Stage materials and confirm safe, dry work areas. 2. Create inspection lots by elevation or gridline. Set acceptance tolerances in the app, upload relevant details, and assign responsible parties for anchors, rails, and panel installation. 3. Using the Interactive Checklist: Open the project link or scan the QR to start interactive mode. Tick items as completed and add location-tagged comments with photos, torque logs, and batch labels. 4. Escalate and track: @mention subcontractors on failed points, attach corrective actions, and set due dates. Reinspect and close with resolution photos and updated readings. 5. Export: Compile an evidence pack and export as PDF/Excel, including images, signatures, timestamps, and item statuses. Ensure the export includes the QR for authenticity. 6. Sign-Off: Capture digital signatures from contractor, consultant, and client. Distribute the final pack to stakeholders, archive in the project CDE, and lock records for audit.