



Inspect Decorative Metal Screen Installation & Panel Alignment

Inspect decorative metal screen installation and panel alignment with an interactive checklist—commentable and export as PDF/Excel—to ensure plumb, level, uniform joints, and documented compliance.

Project:

Date:

Filled by:

Pre-Installation Verification

1	Confirm latest approved drawings, shop details, and specifications are on site; verify panel layout, joint targets, and fixing schedule; record document numbers and approvals with a photo of the cover sheets.
2	Inspect delivered panels against submittals for finish, pattern orientation, and quantities; photograph batch labels and packaging; note any transit damage for immediate quarantine.
3	Check environmental conditions with hygrometer and IR thermometer; ensure surface temperature is at least 3 °C above dew point and relative humidity 30–70%; capture instrument readings.
4	Confirm access, working platforms, and exclusion zones; verify permits, scaffold tags, and fall-protection anchor points; photograph signage and permit numbers.

Support Framing and Substrate

5	Survey control lines and benchmarks with laser/total station; ensure reference grid deviation ≤ 3 mm over 3 m; upload marked screenshots or survey printouts.
6	Check framing plumb and flatness using a digital level and 2 m straightedge; accept plumb within 2 mm per m (max 5 mm overall) and flatness ≤ 3 mm over 2 m; photograph gauges in place.
7	Verify anchor positions and edge distances against shop drawings; measure with steel rule and caliper; accept location tolerance ± 3 mm, edge distances per approved project specifications and authority requirements; record measurements.
8	Confirm corrosion protection of supports; use coating thickness gauge to spot-check dry film thickness per specification; log readings and photograph representative areas.
9	Check isolation from dissimilar metals at brackets and interfaces; verify non-conductive gaskets/tapes installed; capture close-up photos of isolators.

Panel Preparation and Handling

10	Verify panel IDs, orientation arrows, and pattern alignment marks are legible; ensure installation sequence matches layout; photograph labels and alignment indicators.
11	Measure panel dimensions with tape/steel rule; accept size within ± 2 mm of drawings; record length, width, and thickness readings for each lot.
12	Inspect pre-punched holes and slots using a vernier caliper; confirm diameters/slot lengths per shop drawings and burr-free edges; take macro photos.
13	Handle panels with non-marring gloves and soft slings; use spreader bar where needed; accept no dents/scratches before and after lift; attach before/after photos.

Mounting and Fastening	
14	Set first reference panel using laser line and adjustable brackets; accept level/plumb within ± 1 mm per m; obtain supervisor's digital signature.
15	Install shims at supports to achieve plane; record shim material and thickness; photograph shims before closure to verify locations.
16	Tighten bracket and panel fasteners with a calibrated torque wrench; accept torque within specification $\pm 10\%$; upload torque log and tool calibration certificate.
17	Apply specified washers, gaskets, and threadlocker where detailed; verify presence at each fixing; provide close-up photos of representative connections.
18	Maintain thermal movement slots and expansion joints; check with feeler gauge; accept clearances per specification (typically ≥ 3 mm); record measured gaps every 2 m.

Alignment, Joints, and Tolerances	
19	Verify vertical and horizontal alignment across adjacent panels with a laser grid; accept offset ≤ 2 mm between neighboring edges; photograph laser lines crossing joints.
20	Check joint width uniformity using feeler gauges; accept variation ≤ 1 mm from target width; log readings at each panel-to-panel joint.
21	Assess panel plane flatness after fastening using a 2 m straightedge; accept deviation ≤ 3 mm; capture photos showing straightedge contact and gaps.
22	Confirm pattern continuity and orientation across seams; accept misalignment ≤ 2 mm; take orthogonal photos demonstrating motif alignment.
23	Inspect corners and edge trims with a template gauge; accept tight returns with visible gaps ≤ 2 mm; ensure sealant (if any) is neat and continuous; document with photos.
24	Perform tap test to detect buzz/rattle; install damping pads where specified; accept no audible vibration at typical touch points; log pad locations.

Finish, Protection, and Handover	
25	Verify coating finish for uniform color and gloss; check dry film thickness with gauge per specification; record 5 readings per elevation and photograph samples.
26	Clean panels using approved pH-neutral detergent and microfiber cloths; accept no streaks or residue; upload before/after photos.
27	Apply and label temporary protective film if required; ensure edges sealed and removal date displayed; photograph labels and protected areas.
28	Compile as-built dossier: measurements, torque logs, coating readings, batch labels, approvals; confirm compliance per approved project specifications and authority requirements; obtain digital sign-offs.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect decorative metal screen installation and panel alignment to ensure every panel is plumb, level, and evenly spaced on vertical wall-mounted systems. This checklist supports decorative screen alignment, metal panel plumbness, and façade screen installation checks for non-structural, decorative assemblies. It focuses on verification of support framing, bracketry, fasteners, joint uniformity, thermal movement allowances, and finish integrity, without covering ceilings, fences, or structural curtain wall systems. Using practical tools—laser levels, digital inclinometers, straightedges, torque wrenches, and feeler gauges—you'll confirm tolerances, capture photographic evidence, and log readings for sign-off. By following these steps, teams avoid buzz/rattle under vibration, uneven joints that telegraph poor workmanship, coating damage that accelerates corrosion, and misaligned patterns that compromise design intent. The outcome is a consistent façade or interior feature wall that meets approved project specifications and authority requirements, ready for client presentation. Start in interactive mode to tick items, leave comments where deviations occur, and export your records as PDF/Excel with a secure QR link for traceable approval.	1. Preparation: Brief the team on scope, tolerances, and roles. Gather drawings, shop details, calibrated tools (laser, digital level, 2 m straightedge, calipers, torque wrench), PPE, and access permits. Verify environmental conditions and site readiness. 2. Open the interactive checklist on a tablet or phone. Select project, elevation, and date. Enable location and camera access for geo-tagged photos and time-stamped entries. 3. Work bay-by-bay. Tick items as verified, input measurements, and attach photos of gauges, laser lines, and fixings. Use comments to flag deviations and assign corrective actions. 4. Use the torque log and measurement fields to store numeric values. Link each reading to panel IDs and grid lines for traceability. 5. When alignment is complete, run a final review pass. Resolve or document all comments with before/after photos and note any approved variances per specifications. 6. Export the record as PDF/Excel for stakeholders. The export includes photos, readings, and action logs, secured by an embedded QR code for authentication. 7. Sign-Off: Capture digital signatures from the installer, QA/QC, and client representative. Archive the package in the project CDE and share the QR-linked report.