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Inspect fixed louver blade installation: spacing and orientation

Inspect fixed louver blade installation for spacing and orientation with interactive, commentable checklists exporting as PDF/Excel to ensure pitch, angle, and alignment.

Project:
Date:
Filled by:

Pre-Inspection and Setup

1	Confirm latest approved shop drawings, specifications, and revisions are on hand; photograph revision blocks and title pages; acceptance: correct issue/revision noted and matches site installation.
2	Verify louver type, blade profile, and finish match approved submittal; record model/lot from manufacturer labels; acceptance: labels match submittal; photo evidence of tags and panel.
3	Establish level and plumb datum lines with a calibrated laser; mark reference points on frame; acceptance: datum variance $\leq \pm 2$ mm over 3 m; capture laser projection photos.

Blade Spacing Verification

4	Measure blade pitch (centre-to-centre) at left, centre, and right of each panel using a steel rule and feeler gauges; acceptance: within specified pitch ± 2 mm; record readings and photos.
5	Confirm cumulative stack height equals (number of blades \times pitch) plus top/bottom margins using a steel tape; acceptance: variance $\leq \pm 5$ mm per panel; photograph tape against assembly.
6	Verify top and bottom reveals between outer frame and nearest blade using a steel rule; acceptance: reveals equal within ± 3 mm; take close-up photos with ruler in frame.
7	Measure edge-to-first-blade spacing at both jambs with a steel rule; acceptance: within ± 2 mm of drawing value; capture left/right close-up photos with dimension marks.
8	Check for unintended contact between adjacent blades by sliding a 0.5 mm feeler gauge through the minimum gap; acceptance: gauge passes freely without snag; note locations and take photos.

Blade Orientation and Alignment	
9	Measure blade angle to horizontal with a calibrated digital inclinometer on at least 10% of blades (min 5 per bay), ends and mid-span; acceptance: specified angle $\pm 1^\circ$; record device ID and readings.
10	Compare angle consistency along each checked blade using readings at both ends and mid; acceptance: intra-blade difference $\leq 1^\circ$; upload screenshots/logs from inclinometer app.
11	Check straightness of blade leading edges with a 1 m straightedge; acceptance: deviation ≤ 2 mm over 1 m; photograph straightedge contact showing gaps with feeler gauges.
12	Verify panel-to-panel line continuity using a laser line across joints; acceptance: offset at transitions ≤ 3 mm; document with wide-angle photos capturing the laser across panels.
13	Confirm frame level and plumb with laser or spirit level to ensure orientation is not frame-induced; acceptance: level/plumb variance ≤ 3 mm over 2 m; record bubble/laser photos.

Supports and Fastenings	
14	Verify bracket spacing and quantity against drawings using a steel tape; acceptance: centre-to-centre spacing within ± 5 mm and all brackets installed; annotate photos with measured values.
15	Check fastener torque at blade-to-bracket connections with a calibrated torque wrench; acceptance: torque per approved project specifications and authority requirements; log torque values and upload calibration certificate.
16	Confirm locking clips/washers are fully seated and prevent rotational play; acceptance: no perceptible blade rotation by hand; provide macro photos of representative connections.
17	Inspect corrective shims for material and thickness; acceptance: non-compressible, distributed, total shim stack ≤ 3 mm at any point; photograph shim placement and thickness gauges.
18	Verify thermal movement clearance at blade ends per drawings by inserting a 1 mm feeler between blade end and stop; acceptance: free movement, no binding; record close-up photos.

Documentation and Closeout	
19	Capture overall elevations and detail shots with scales at measured points; acceptance: images are clear, time-stamped, and mapped to panel IDs; upload to checklist.
20	Create punch list entries for nonconforming spacing or angles; include unique location IDs, measured deviations, and required actions; acceptance: each item assigned to a responsible party and due date.
21	Reinspect rectified items repeating original measurements; acceptance: all values within tolerances; attach before/after photos and updated readings to close punch items.
22	Obtain digital sign-offs from installer, main contractor QA, and consultant; acceptance: completed checklist exported to PDF/Excel with QR authentication and archived in project records.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
<p>Inspect fixed louver blade installation for spacing and orientation is a focused quality-assurance task that ensures each horizontal blade meets specified pitch, alignment, and angle. This checklist targets uniform spacing, correct blade orientation, consistent reveals, and straightness across panels of extruded aluminum louvers. By concentrating on blade pitch, plane alignment, and angle verification, inspectors prevent rattle, binding, increased pressure drop, water entrainment, and visual irregularities. The scope covers installed fixed horizontal louvers only, using calibrated tools such as a digital inclinometer, steel rule, laser level, and feeler gauges; it excludes structural testing, sealant systems, and performance ratings, which must be verified separately per approved project specifications and authority requirements. Outcomes include verifiable measurements, time-stamped photos, and sign-offs that demonstrate conformance to approved shop drawings. Start in interactive mode: tick items as you inspect, add comments where deviations occur, attach photos and readings, and export your results to PDF/Excel with a secure QR code for traceable handover.</p>	<p>1. Preparation: Calibrate the laser level, digital inclinometer (0.1° resolution), steel rule, feeler gauges, and torque wrench. Verify tool certificates are current and upload them to the checklist. 2. Preparation: Retrieve approved drawings/specifications and louver submittals. Mark bay and panel IDs on the frame. Establish level/plumb datums with a laser and note ambient conditions. 3. Preparation: Ensure safe access (platforms, harnesses) and adequate lighting. Clean blade surfaces where gauges and rules will contact to avoid false readings. 4. Using the Interactive Checklist: Start interactive mode, select location and panel IDs, then tick items as you proceed. Enter measurements in SI units and attach time-stamped photos. 5. Using the Interactive Checklist: Add comments for deviations, tag responsible parties, and set due dates. Export interim reports to PDF/Excel for coordination meetings. 6. Sign-Off: After all items pass, generate a punch list summary showing closed items, measurement logs, and photos. Secure a QR code for authentication and traceability. 7. Sign-Off: Collect digital signatures from installer, QA, and consultant. Export the final package as PDF/Excel and archive it in project records.</p>