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# Inspect Stone Cladding Panels: Line, Level, Joint Width

Inspect stone cladding panel installation for line, level, and joint width with an interactive, commentable checklist that exports as PDF/Excel for auditable QA.

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| Project: |
| Date: |
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| Pre-Alignment Controls | |
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| 1 | Confirm latest approved shop drawings and tolerance table are on hand; cross-check revision numbers against document register. |
| 2 | Transfer gridlines and elevation datum to the façade using a total station/laser; tolerance ±2 mm to master control; attach survey report and marked photos. |
| 3 | Verify substrate or secondary frame plane with a 2 m straightedge and feeler gauges; maximum gap ≤3 mm; photograph gauges and straightedge contact. |
| 4 | Set and mark starter line at base course using rotary laser and staff; level tolerance ±2 mm across the bay; record laser readings and witness marks. |
| 5 | Confirm shim and spacer sizes available per drawings using calipers; acceptance: matches specified thickness range; photo labels and packaging lot numbers. |

| Line and Plumb Verification | |
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| 6 | Establish vertical control line (laser/plumb) at bay arris; acceptance: control line coincides with grid within ±1 mm; photo with laser visible on marks. |
| 7 | Measure each panel plumb using a digital level/inclinometer (0.1° resolution); tolerance ≤2 mm in 1 m, ≤4 mm over full panel height; capture screen reading. |
| 8 | Check panel edge alignment to vertical control line with feeler gauge at top/mid/bottom; offset ≤2 mm; attach close-up photos showing gauge thickness. |
| 9 | Verify stack continuity at floor-to-floor joints using laser or drop line; step between courses ≤2 mm; annotate photo at joint intersection. |
| 10 | Check face flushness to adjacent panels with a 1.5 m straightedge; allowable offset ≤2 mm; photograph straightedge bridging both panels. |

| Level and Coursing Checks | |
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| 11 | Confirm base course level across bay using rotary laser and staff; tolerance ±2 mm over span; log readings at left, center, right. |
| 12 | Measure top-of-panel elevation at three points per panel; acceptance: ±2 mm to elevation datum; record values and panel ID tags. |
| 13 | At every third course, recheck level lines and mark witness ticks; cumulative drift ≤3 mm over three courses; photograph marks beside laser line. |
| 14 | Verify lintel/sill band alignment to shop drawing elevations with laser; variation ≤3 mm across opening width; attach annotated elevation photo. |
| 15 | Check any designed reveals or step-backs remain level using a small spirit level and gauge block; tolerance ±1 mm; include gauge-in-place photos. |

| Joint Width Measurement | |
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| 16 | Measure vertical joint width at top/mid/bottom using feeler gauges or adjustable joint gauge; acceptance: design width ±1 mm; record three readings. |
| 17 | Measure horizontal joint width at left/mid/right of panel; acceptance: design width ±1 mm; capture close-up photos with gauge scale visible. |
| 18 | Check joint straightness over 2 m with laser or straightedge; bow/serration ≤2 mm; photograph straightedge contact along joint line. |
| 19 | Verify T and cross joint intersections for alignment using a small square; permissible offset ≤1 mm between meeting joints; attach annotated photo. |
| 20 | Confirm joint spacer type and thickness match drawings; acceptance: correct spacer dimension and material; photo packaging and spacer in-situ. |
| 21 | Ensure temporary wedges/spacers are removed where specified before sealing; acceptance: no visible spacers; photo each cleaned joint section. |

| Tolerances and Adjustments | |
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| 22 | If any reading exceeds tolerance, adjust brackets/shims to realign to control; re-measure and record before/after values with responsible initials. |
| 23 | Check cumulative line over each 10 m bay with total station; acceptance: façade offset ≤5 mm over 10 m; upload survey printout and point list. |
| 24 | Verify movement-joint gaps match drawings at designated locations; acceptance: width per detail; include ruler-in-frame photos and location tags. |
| 25 | Raise a hold point for superintendent review prior to sealing/pointing; acceptance: signed release per approved project specifications and authority requirements. |

| Documentation and Sign-Off | |
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| 26 | Attach geo-tagged, time-stamped photos of lasers, levels, gauges, and datum marks for each bay; ensure panel IDs are visible. |
| 27 | Complete digital checklist fields: measurements, tolerances, locations, corrective actions; acceptance: 100% fields populated; export to PDF/Excel. |
| 28 | Obtain digital signatures from installer, site engineer, and QA; distribute to stakeholders; archive with QR-linked record set. |

**Comments:**

Filled by:

Signature:

| Introduction | How to use this checklist |
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| Inspect stone cladding panel installation for line, level, and joint width to assure façade alignment, plumbness, and joint consistency. This checklist focuses on vertical façade panels, using survey control, laser levels, straightedges, and feeler gauges to verify arris line, level coursing, and uniform gaps. It excludes anchor capacity testing and sealant performance; acceptance is gauged strictly by alignment, elevation, and joint-dimension tolerances per approved project specifications and authority requirements. By capturing repeatable measurements at control points, you will prevent cumulative drift, misaligned coursing, and inconsistent joints that cause visual defects, water ingress pathways, and rework. The outcome is a documented, auditable installation that matches shop drawings, maintains architectural intent, and delivers clean, continuous sightlines across bays and floors. Use this interactive checklist to tick each step, add comments and photos at nonconformities, and export your signed records to PDF or Excel. A QR code secures traceability on drawings, bays, and elevations. | 1. Preparation: Assemble total station/laser, digital level, 1.5–2 m straightedge, feeler gauges, calipers, staff, panel ID tags, and PPE. Confirm latest shop drawings, tolerance tables, and inspection lot plan are available. 2. Open the checklist, select project, elevation, and lot. Start interactive mode to enable ticking steps, entering measurements, attaching geo-tagged photos, and tagging locations by gridline and level. 3. Record measurements: For each item, input numeric readings, variances, and notes. Use the camera tool to capture instruments-in-place and markup photos with arrows or dimensions for clarity. 4. Manage issues: If a step fails tolerance, create a nonconformity, assign corrective action, and set a hold point. Re-measure after adjustment and close the issue with before/after evidence. 5. Export and share: Generate a commentable report and export as PDF/Excel for review meetings. The QR code links the file to the authenticated record set. 6. Sign-Off: Capture digital signatures from installer, site engineer, and QA. Archive the signed report in the project folder and distribute to stakeholders per the communication plan. |