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# Inspect precast façade joints, shims, packers after erection

Inspect precast façade panel joints, shims, and packers after erection via an interactive checklist—commentable and exportable as PDF/Excel for QA approval.

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| Project: | |
| Date: | |
| Filled by: | |

| Pre-Inspection & Access | |
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| 1 | Verify latest approved shop and erection drawings against on-site copies; compare revision stamps. |
| 2 | Match panel IDs to grid locations on drawings; photograph panel marking beside gridline tag for evidence. |
| 3 | Confirm safe access (MEWP/scaffold) with valid tag; level platform checked by onboard inclinometer; photograph tag and access condition. |
| 4 | Confirm temporary supports adjusted to final alignment per method statement; capture supervisor sign-off and permit reference. |

| Joint Geometry & Alignment | |
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| 5 | Measure vertical joint width at top, mid, bottom using steel rule; acceptance: within drawing width ±3 mm; attach photos with scale. |
| 6 | Measure horizontal joint width at left, centre, right using steel rule; acceptance: within drawing width ±3 mm; record readings in mm. |
| 7 | Assess joint taper using wedge/feeler gauges; acceptance: variation along storey height within 3 mm or as specified; photo evidence. |
| 8 | Check panel-to-panel step across joint with 2 m straightedge and feeler gauge; acceptance: offset ≤2 mm; capture close-up with gauge. |
| 9 | Verify vertical alignment/plumb using laser or plumb line; acceptance: within specified tolerance (record mm over height); save instrument screenshot/photo. |
| 10 | Confirm corner/cruciform joint alignment with engineer’s square; acceptance: intersection offset ≤3 mm; attach measured photo. |
| 11 | Inspect joint cavities for laitance, mortar nodules, or debris; clean with brush/air; acceptance: wipe test shows minimal dust; before/after photos. |

| Shims and Packers | |
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| 12 | Confirm shim/packer material (e.g., HDPE, neoprene) and thickness per approved submittals using calipers; record product and lot numbers. |
| 13 | Verify shim stack locations at bearing points per detail using mirror/borescope; acceptance: centred on bearing, level, no gaps >1 mm; photo evidence. |
| 14 | Measure total shim stack height vs design bearing level using laser/feeler gauges; acceptance: within ±2 mm; record values in mm and location. |
| 15 | Check for solid bearing: attempt 1 mm feeler insertion around bearing; acceptance: no penetration >10 mm; capture close-up photo. |
| 16 | Confirm compressible packers/restraint pads present where specified; acceptance: correct hardness/colour code; record datasheet reference and photo. |
| 17 | Verify corrosion isolation between dissimilar metals and packers; acceptance: isolation pad/coat continuous and intact; photo at each point. |
| 18 | Confirm temporary erection packers removed or retained per design; capture supervisor confirmation and photo of each location. |

| Movement Allowance & Joint Components | |
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| 19 | Inspect slotted/adjustable connections near joints; acceptance: no hard-packing by shims, visible clearance for movement; borescope photo. |
| 20 | Verify backer rod selection vs joint width using calipers; acceptance: designed 25–50% compression; record rod diameter and joint width. |
| 21 | Confirm bond-breaker tape installed where specified; acceptance: continuous, well-adhered, wrinkle-free; photo documentation along run. |
| 22 | Ensure drainage/weep paths at horizontal joints are unobstructed; probe with 3 mm rod; acceptance: free passage; photo of probe in place. |
| 23 | Check fire/thermal/acoustic joint fillers match approvals; acceptance: correct product and lot; photos of labels and installed sample. |

| Closeout & Records | |
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| 24 | Clean joint faces with approved solvent/brush; acceptance: lint-free cloth shows minimal residue; before/after photos. |
| 25 | Tag nonconformities with removable markers; reference grid/elevation; attach close-up and context photos for each defect. |
| 26 | Complete checklist: enter measurements, comments, and photo links for every joint; acceptance: 100% fields completed. |
| 27 | Obtain digital approvals (contractor QA, precast supplier, consultant) and archive; acceptance: signatures with date/time stamp and distribution log. |

**Comments:**

Filled by:

Signature:

| Introduction | How to use this checklist |
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| Inspect precast façade panel joints, shims, and packers after erection to confirm that each panel-to-panel interface is uniform, supported, and ready for sealing. This post-erection inspection targets precast cladding panels and focuses on joint geometry, shim stacks, and packers at bearing and restraint points. By validating joint widths, offsets, and movement allowances, you reduce risks of water ingress, façade cracking, noise transmission, and premature sealant failure. Verifying approved shim and packer materials, stack heights, and bearing contact prevents point-loading and corner spalls, while confirming backer rod sizing and drainage paths preserves long-term performance. The checklist stays strictly within joints, shims, and packers—no sealant application or structural fixings commissioning beyond their impact on joint function. Use the steps to capture measurements, photos with scales, product lot numbers, and sign-offs per approved project specifications and authority requirements. Start interactive mode to tick items, add comments, and export your record as PDF/Excel with a secure QR. | 1. Preparation: Ensure panels are erected and accessible; gather steel rule, feeler/wedge gauges, calipers, 2 m straightedge, laser level, mirror/borescope, probe rod (3 mm), lint-free cloths, approved cleaner, and PPE. 2. Open approved shop/erection drawings and submittals on your device; verify latest revisions and highlight joint dimensions, shim/packer details, and movement/backer rod notes. 3. Using the Interactive Checklist: Start interactive mode, select level/elevation, and link panel IDs. Tick each item as you proceed along the joint run. 4. Record measurements in SI units; attach photos showing gauges/rulers, and capture product labels and lot numbers. Add comments noting gridlines and precise locations. 5. Flag nonconformities, assign actions and due dates to responsible parties, and request clarifications per approved project specifications and authority requirements. 6. Review completeness: confirm 100% items closed or actioned, verify evidence quality, and ensure movement/clearance photos are clear. 7. Export PDF/Excel with embedded photos and a QR code for authentication; share with QA, precast supplier, and consultant. 8. Sign-Off: capture digital signatures, archive the package in the project CDE, and log revision/date for traceability. |