



Inspect façade acoustic sealing at perimeter joints

Inspect façade acoustic sealing at perimeter joints with an interactive checklist that is commentable and can export as PDF/Excel. Capture measurements, photos, and sign-offs for assured compliance.

Project:

Date:

Filled by:

Pre-Inspection & Documentation

1	Review approved drawings, details, and project specifications for acoustic perimeter joints; list target locations and assemblies. Acceptance: scope matches latest revisions. Evidence: document references, marked-up plan, RFI closures, QA sign-off.
2	Confirm installer competency and briefing on acoustic sealing requirements. Method: toolbox talk with method statement. Acceptance: attendance $\geq 100\%$ of crew. Evidence: signed roster, dated photos.
3	Record ambient conditions. Method: calibrated thermometer/hygrometer and infrared thermometer. Acceptance: 5–35 °C, RH $\leq 80\%$, substrates above dew point; substrate moisture $\leq 5\%$. Evidence: logged readings with instrument serials.
4	Verify tools readiness: sealant guns, depth gauge, digital caliper, smoke pencil, SPL meter, borescope. Acceptance: clean, functional, within calibration date. Evidence: tool checklist, calibration labels photos.

Substrate & Joint Condition

5	Measure joint width every 1.0 m and at corners. Method: digital caliper/feeler gauges. Acceptance: within design width ± 3 mm, no abrupt steps > 2 mm. Evidence: measurements logged with location photos and scale.
6	Check substrates are sound, dry, and dust-free. Method: scrape test and white-cloth wipe; vacuum as needed. Acceptance: no loose material; wipe shows negligible residue. Evidence: before/after photos, wipe photo.
7	Confirm compatibility and priming requirements. Method: review data sheets; apply primer where specified. Acceptance: correct primer used, uniform coverage, no bituminous bleed. Evidence: primer lot numbers, coverage photos.
8	Verify no rigid packers bridge the joint. Method: probe gap along run. Acceptance: free movement path; bond-breaker/backer maintains two-sided adhesion. Evidence: probe photos, notes on obstructions removed.

Materials & Storage	
9	Confirm acoustic sealant type per approved project specifications and authority requirements. Acceptance: correct product, colour, and cure profile; VOC per spec. Evidence: product data sheet, batch/lot, expiry date photos.
10	Verify backer material. Method: closed-cell backer rod or mineral wool where specified. Acceptance: diameter 25–50% larger than joint width; intact skin. Evidence: diameter measurement, packaging labels.
11	Inspect storage conditions. Method: temperature log and visual check. Acceptance: 5–25 °C, dry, upright cartridges, FIFO observed. Evidence: storage area photos, temperature records.
12	Verify masking tapes are low-tack and compatible. Acceptance: no adhesive residue; remove within recommended window. Evidence: tape spec sheet, removal photos.

Application & Detailing	
13	Install backer at uniform depth. Method: depth gauge every 1.0 m; avoid tearing/over-compression. Acceptance: depth enabling sealant depth 6–12 mm or $\approx 0.5 \times$ joint width (min 6 mm). Evidence: depth readings, photos.
14	Apply continuous acoustic sealant bead with steady gun speed. Acceptance: full contact to both sides; no voids, skips, or entrapped debris. Evidence: close-up photos every 2 m and at ends.
15	Tool bead within open time to a smooth concave profile. Method: approved tooling solution. Acceptance: uniform surface, no pinholes, contact width ≥ 6 mm. Evidence: timestamped photos, note of open time observed.
16	Detail corners and transitions. Method: pre-form/overlap minimum 25 mm; avoid thin apex. Acceptance: seamless continuity around corners. Evidence: before/after photos with scale.
17	Seal around brackets and penetrations at perimeter. Method: 360° coverage with bond-breaker where needed. Acceptance: no gaps > 2 mm; smooth tie-ins. Evidence: macro photos per penetration.
18	Interface with adjacent air barrier/weather seal correctly. Acceptance: acoustic bead continuous behind covers; no unintended substitutions. Evidence: annotated photos; note compliance per approved project specifications and authority requirements.

Testing & Verification	
19	Perform light/borescope continuity check. Method: flashlight/borescope along joint line. Acceptance: no visible light through joint. Evidence: photos/video captures with location IDs.
20	Conduct tracer air test. Method: create ± 25 Pa differential with temporary fan; use smoke pencil. Acceptance: no smoke movement across joint. Evidence: pressure reading, test video, equipment serials.
21	Spot acoustic check. Method: pink-noise source inside ~ 85 dB(A); measure 0.3 m outside joint. Acceptance: ≥ 40 dB(A) drop or per approved project specifications. Evidence: SPL logs, meter serial, photos.
22	Field adhesion check after skin formation. Method: scribe-and-pull with blunt tool. Acceptance: cohesive failure acceptable; adhesive failure not. Evidence: test locations map, photos, observations.
23	Verify bead dimensions post-tooling. Method: caliper and depth probe every 1.0 m. Acceptance: width within $-0/+2$ mm of target; depth ratio 0.5 ± 0.1 . Evidence: logged measurements, images with gauge.

Closeout & Records	
24	Assign joint IDs and record materials traceability. Acceptance: batch/lot numbers linked to locations and date/time. Evidence: label photos, traceability log.
25	Remove masking and clean adjacent surfaces. Method: per product guidance. Acceptance: no residue, smears, or damage to façade. Evidence: close-out photos.
26	Resolve punch items and re-test affected areas. Acceptance: all comments closed with corrective actions verified. Evidence: before/after photos, retest logs, approvals.
27	Obtain final approvals. Method: digital signatures from installer, QA, and consultant; export reports. Acceptance: complete dossier per approved project specifications and authority requirements. Evidence: signed PDF/Excel export with QR authentication.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect façade acoustic sealing at perimeter joints defines how to confirm uninterrupted, well-detailed acoustic perimeter seal lines between façade systems and adjacent structure. This checklist targets acoustic perimeter sealing, façade joint soundproofing, and air-seal continuity without drifting into unrelated firestopping or weatherproof aesthetics. By focusing on substrate preparation, material compatibility, correct backer installation, and sealant geometry, you prevent flanking paths that erode façade acoustic performance and cause occupant complaints. You will verify environmental conditions, trace product batches, and document bead dimensions, transitions, and penetrations. Field checks include visual continuity, smoke/tracer evaluation under low pressure, and spot sound level comparisons, all aligned per approved project specifications and authority requirements. Acceptance cues are practical and measurable, using calipers, depth gauges, hygrometers, and annotated photos. The outcome is a defensible record set supporting handover and future maintenance. Use this interactive checklist to tick tasks, add comments, and export as PDF/Excel with a QR-secured audit trail.	1. Preparation: Gather drawings, specifications, method statements, and safety gear. Bring caliper, depth gauge, smoke pencil, SPL meter, borescope, hygrometer, and cleaned sealant tools. Confirm access equipment and lighting are safe and ready. 2. Set up the interactive checklist: Open the project, select façade perimeter joint areas, and assign location IDs. Start interactive mode to enable ticking, photo uploads, and geotagging. 3. Capture evidence: At each item, take clear photos with scales, log measurements, and attach batch sheets. Note instrument serials and calibration dates in the comments field. 4. Manage collaboration: Mention responsible parties in comments, request clarifications, and convert issues into punch items with due dates. Track status changes automatically. 5. Perform field tests: Execute light/borescope checks, smoke tests at ± 25 Pa, and spot SPL comparisons as specified. Record readings and short videos linked to joint IDs. 6. Export and review: Generate interim PDF/Excel reports for internal QA. Filter by area, date, or status to prioritize remediation and retesting. 7. Sign-Off: Collect digital signatures from installer, QA, and consultant. Export the final, commentable report as PDF/Excel and secure it with a QR code for authenticity and archiving.