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Review façade airtightness line & continuity interfaces

Review façade airtightness line and continuity across interfaces with an interactive checklist that is commentable and lets teams export as PDF/Excel for traceable sign-off.

Project:

Date:

Filled by:

Pre-Inspection & Documents

1	Confirm approved details show a single continuous airtight line crossing all façade interfaces; redline any gaps and obtain design resolution before work proceeds; upload marked-up drawings as evidence with reviewer signature and date.
2	Verify submittals for membranes, tapes, primers, and sealants are approved and mutually compatible; cross-check manufacturer datasheets; acceptance: all approvals current; evidence: approvals, product datasheets, and batch/lot numbers logged.
3	Define hold points before concealment at window perimeters, slab edges, parapets, and penetrations; acceptance: ITP lists locations and responsible parties; evidence: signed ITP with dates uploaded.
4	Coordinate installation sequencing so air barrier continuity precedes brackets, rails, or cladding; method: coordination meeting; acceptance: documented sequence; evidence: meeting minutes with attendees and action items.

Substrate & Surface Preparation

5	Check substrates are dry, clean, and sound; measure moisture content with a calibrated meter; acceptance: $\leq 5\%$ mass or per product datasheet; evidence: meter readings and location-tagged photos.
6	Verify surface evenness for membranes: deviations ≤ 3 mm over 1 m using straightedge; acceptance: no sharp edges or voids; evidence: photos with straightedge and scale.
7	Confirm required primer is applied within coverage rate; method: record area primed and material used; acceptance: within $\pm 10\%$ of datasheet coverage; evidence: log with quantities, batch numbers, and timestamped photos.
8	Record ambient and substrate conditions; method: thermometer/hygrometer and IR thermometer; acceptance: within manufacturer limits; evidence: readings (air temperature, substrate temperature, RH) with location and time.

Membrane & Coating Continuity

9	Self-adhered membrane side/end laps ≥ 100 mm; roll firmly with hand roller; acceptance: no fishmouths, blisters, or voids; evidence: close-up photos with ruler and peel check record (≥ 0.3 N/mm field tug).
10	Liquid-applied air barrier thickness verified; method: wet film comb and dry film checks; acceptance: meets datasheet (e.g., WFT 1.2 mm, DFT $\geq$ specified); evidence: gauge readings log and location photos.
11	Corners and changes of plane reinforced with preformed patches or gussets; acceptance: no cuts in primary line; evidence: photos before and after reinforcement.
12	Fasteners through air barrier sealed with compatible gaskets or detailing; acceptance: no exposed punctures without seal; evidence: macro photos and fastener schedule cross-check.
13	Continuity behind façade brackets/rails ensured by shingle laps or tapes; acceptance: no reverse laps; evidence: photos taken before attachment of rails.

Interface Transitions (Windows/Doors/Curtain Wall)

14	Window-to-wall transition tape or membrane bonded to frame and sheathing; method: adhesion tug; acceptance: peel ≥ 0.3 N/mm, no edge lift; evidence: photos of tape bond and tug test.
15	Sill pan or upstand provides airtight turn-up ≥ 100 mm; maintain drainage paths; acceptance: continuous, unbroken corners; evidence: annotated photos before cladding.
16	Perimeter sealant geometry correct: backer rod 25% oversize; depth-to-width $\approx 1:2$; acceptance: no three-sided adhesion; evidence: macro photos with gauge and sealant batch logged.
17	Curtain wall anchors sealed: boots/sleeves bonded to membrane around penetrations; acceptance: 360° seal, no gaps; evidence: photos prior to cover plates.
18	Perimeter fire-stopping coordination: maintain air barrier continuity outside fire stop; acceptance: approved detail followed; evidence: photos and approval notes per approved project specifications and authority requirements.

Penetrations & Services

19	MEP penetrations sealed with prefabricated collars or liquid flashing; method: visual and smoke pencil; acceptance: no visible gaps, no smoke draw; evidence: photos/video and product batch numbers.
20	Electrical boxes/outlets on façade air barrier fitted with airtight gaskets or putty pads; acceptance: complete perimeter seal; evidence: photos with cover removed.
21	Vent terminals/flues: flashing sealed 360° to air barrier; ensure components do not obstruct air seal; acceptance: continuous bond; evidence: annotated photos and installer sign-off.
22	Structural ties/ledger penetrations detailed with liquid flashing extending ≥ 50 mm beyond edges; acceptance: target thickness per datasheet; evidence: WFT readings and photos.

Movement Joints & Terminations	
23	Movement joints bridged with expansion-capable tape/bellows; acceptance: accommodates design movement ($\pm 25\%$ minimum or per detail); evidence: product data and installation photos.
24	Parapet and roof-to-façade transition: airtight turnover onto roof air barrier ≥ 150 mm; acceptance: bonded overlap continuous; evidence: photos with tape measure indicating dimension.
25	Slab edge to façade: membrane continuity behind spandrel and at edge; acceptance: laps ≥ 100 mm, no voids; evidence: progress photos before spandrel closure.
26	Terminations: use termination bars or end dams with continuous bead; acceptance: fixings at ≤ 200 mm centres; evidence: close-ups with measured spacing.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Review façade airtightness line and continuity across interfaces is a field-focused process to confirm a single, unbroken air barrier path before work is concealed. This checklist targets façade air barrier continuity, envelope airtightness, and interface sealing where systems meet: window-to-wall, parapet-to-wall, slab edges, penetrations, and movement joints. By mapping the airtight line on drawings, validating material compatibility, and inspecting installed transitions, teams avoid uncontrolled infiltration, condensation risk, occupant discomfort, and commissioning delays. The scope excludes structural, thermal, or water-shedding performance except where they affect the airtight line. It emphasizes visual and tactile checks, measurable cues such as lap widths and film thickness, and traceable evidence like photos, readings, and batch numbers. Use this to establish hold points, coordinate sequencing with trades, and prepare for whole-building testing per approved project specifications and authority requirements. Start interactive mode to tick items, add comments, and instantly export PDF/Excel using the page QR for team sign-off.	1. Preparation: Gather approved details, ITP, datasheets, and calibrated tools (moisture meter, hygrometer, IR thermometer, straightedge, film comb, smoke pencil, ruler, hand roller). Confirm safe access (ladders, MEWPs), lighting, and that surfaces are clean and reachable. 2. Set up locations: Create elevation/zone tags and interface categories in the app. Preload typical details and acceptance notes so inspectors can select and reference them in the field. 3. Start interactive mode: Open the checklist on a tablet or phone, scan the QR to link the session, and enable photo geotagging. Tick items as you inspect and attach annotated photos with scales. 4. Comment in context: Use the comment field to flag defects, assign actions to trades, and set due dates. Mention drawings or datasheets and link batch numbers for traceability. 5. Resolve and recheck: After corrective work, retake photos and update measurements. Add a short verification note and change the item status to closed with your initials and timestamp. 6. Export records: Generate PDF/Excel exports grouped by elevation, interface, or trade. The export includes photos, readings, comments, and batch logs, secured with a QR code. 7. Sign-off: Capture digital signatures from installer, supervisor, and consultant. Distribute the final export to stakeholders and archive it with project drawings for closeout.