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Inspect Curtain Wall Air Barrier Continuity at Slab Edge

Inspect curtain wall internal air barrier continuity at slab edge with an interactive checklist, commentable, and export as PDF/Excel for traceable transitions.

Project:	
Date:	
Filled by:	

Pre-Installation Documentation	
1	Compare slab-edge air barrier detail revisions to document control log; accept only latest approved set; capture photos of title blocks and approval stamps.
2	Verify approved materials (transition membrane, primer, sealant, tapes) per submittals; record manufacturer, product code, expiry; photograph labels and lot numbers for traceability.
3	Confirm manufacturer compatibility letters for all wet-applied products; file PDFs in project system; evidence: uploaded letter and reference in inspection notes.
4	Prepare calibrated tools: hygrometer, infrared thermometer, dew-point app, moisture meter, wet-film gauge (0–500 µm), smoke pencil, manometer (±0–60 Pa); record calibration dates.
5	Confirm access and safety: edge protection and fall arrest in place; evidence: photos and sign-in sheet; proceed only when controls are verified.

Substrate and Slab Edge Preparation	
6	Inspect concrete slab edge for voids, honeycombing, and cracks; acceptance: no voids >5 mm deep or 10 mm wide; repair with polymer-modified mortar; photos before/after.
7	Check flatness/alignment with 2 m straightedge; acceptance: deviation ≤5 mm to maintain continuous plane; grind or shim as required; record measurements.
8	Clean bonding areas: vacuum, oil-free air, and solvent wipe per manufacturer; acceptance: dust-free glove test; capture close-ups of cleaned zones.
9	Verify dryness and temperature: concrete moisture ≤5% mass (or per product), surface ≥3 °C above dew point; humidity within limits; record instrument readings.
10	Apply primer where required at 0.2–0.3 L/m²; measure wet-film thickness 150–250 µm; acceptance: uniform, no pinholes; evidence: WFT readings and photos.

Transition Membrane and Sealant Installation	
11	Install self-adhered transition membrane from backpan/liner to slab edge; overlaps ≥50 mm; roll with silicone hand roller for full contact; photo every 1 m.
12	Seal all membrane terminations with compatible sealant bead 10–12 mm; tool to concave finish; acceptance: continuous bond to both substrates; close-up photos.
13	Provide slack for movement: form S-curve to accommodate ±15 mm vertical deflection; acceptance: membrane not under tension; evidence: photo with ruler confirming slack.
14	At corners and mullion intersections, use preformed corners or shingled laps; acceptance: laps ≥100 mm, no fishmouths; document before concealment.
15	Integrate with slab-edge air barrier coating where present; tie-in is continuous and traceable by touch; annotate photo showing the uninterrupted plane.
16	Protect membrane at sharp metal edges with slip sheet or edge tape; acceptance: no cuts/abrasion after unit installation; evidence: after-install photos.

Penetrations and Fixings Sealing	
17	Seal curtain wall anchor penetrations using pre-formed boots or liquid flashing; overlap ≥25 mm onto membrane; acceptance: void-free; close-up photos.
18	Install backer and sealant fillet around brackets/shims within air barrier; bead width 10–12 mm, 2:1 width:depth; evidence: photo every 1 m.
19	Treat nearby MEP penetrations crossing the air barrier plane with membrane collars and stainless bands; acceptance: airtight under 5–10 Pa smoke test; video evidence.
20	Repair accidental cuts: patch extends ≥75 mm beyond damage; roll edges and reseal; acceptance: passes smoke pencil check; before/after photos.

Continuity Verification and Documentation	
21	Perform bay-level smoke test: create 5–10 Pa pressure with temporary fan; trace joint with smoke pencil; acceptance: no smoke drawn into joint; record manometer and video.
22	For liquid-applied areas, verify dry film thickness via WFT-to-DFT conversion; acceptance: within ±10% of specified DFT; log gauge readings.
23	Create photo log: wide (context), mid (detail), and macro (evidence with scale); label by grid/bay; upload to project record.
24	Annotate a continuity path on photos/sketches showing a single unbroken line across the slab edge; evidence: uploaded annotated images.
25	Export the completed checklist with comments and attachments to PDF/Excel; include batch numbers, readings, and photos; file as project as-built.
26	Affix interior QR label linking to the inspection record; acceptance: scannable and permanent; evidence: photo of label in situ.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect curtain wall internal air barrier continuity at slab edge is a critical quality task ensuring the interior air barrier remains unbroken where the façade meets the floor structure. This checklist focuses on the slab-edge transition—verifying air sealing at the curtain wall perimeter, tie-ins to slab-edge coatings, and the robustness of the transition membrane. By concentrating on materials, laps, terminations, and penetrations, it helps prevent uncontrolled air leakage, condensation risk, mould, and discomfort while improving energy performance and commissioning outcomes. The scope excludes firestopping and thermal-only components, addressing only the internal air barrier plane per approved project specifications and authority requirements. Acceptance cues include verified adhesion, specified lap widths, slack for movement, clean substrates, and bay-level smoke testing under controlled pressure. Use this interactive checklist to tick each step, add comments with photos and readings, and export results to PDF/Excel with a secure QR code for traceable handover.	1. Preparation: gather approved details, submittals, compatibility letters, PPE, and calibrated tools (hygrometer, thermometer, moisture meter, wet-film gauge, smoke pencil, manometer). Verify safe access and lighting at the slab edge. 2. Open the interactive checklist, select project, elevation, and bay/grid. Enable GPS or location tag if available for traceability. 3. Using the Interactive Checklist: tick items as completed, add comments with photos/videos and readings, and reference lot numbers or sketches where relevant. 4. Record field tests: input moisture, temperature, dew point, and pressure differential values; attach WFT/DFT measurements and smoke test videos. 5. Export: generate PDF/Excel with comments, images, and timestamps. Share with stakeholders directly from the platform. 6. Sign-Off: obtain digital signatures from installer, superintendent, and consultant. Affix a QR label on site and archive the authenticated record.