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Inspect Curtain Wall Perimeter Firestopping Pre-Concealment

Inspect curtain wall perimeter firestopping before concealment using our interactive checklist. Verify continuity, add commentable notes, and export as PDF/Excel.

Project:

Date:

Filled by:

Documentation and Approvals

1	Confirm basis of acceptance, competent parties, and hold-point controls.
2	Verify tested system and rating match location; record system ID, rating (h), and drawing/detail reference; attach plan markup and photos of tags.
3	Confirm approved submittals and shop drawings on site; check latest revision; capture superintendent/installer acknowledgment and date-stamped photo of documents.
4	Verify installer qualifications/training for specified products; record company, card/certificate numbers, and expiry; attach photos of credentials.

Materials and Compatibility

5	Record mineral wool safing product, thickness (mm), and density (kg/m ³) from label; photograph packaging and lot/batch numbers.
6	Verify fire/smoke sealant and any primer are the approved brands/types; log lot numbers and expiry; attach SDS and datasheets.
7	Check mechanical retainers/safing clips or compression systems per submittal; confirm corrosion protection and compatibility with aluminum/steel; photo each type installed.
8	Confirm any facings, backpans, and intumescent components match approved system; record part numbers; photo installed condition before sealing.

Substrates and Joint Conditions

9	Measure joint width at 1 m intervals and at corners using a steel rule/feeler gauges; acceptance: within design ± 5 mm; log min/avg/max.
10	Inspect slab edge and mullion areas for protrusions/voids; grind/patch as needed; acceptance: no gaps behind safing > 5 mm; photo before/after.
11	Check anchor, bracket, and embed locations; maintain clear annular space for safing/sealant; acceptance: required clearance achieved; photo each condition.
12	Verify spandrel insulation height and continuity at the slab edge; acceptance: no exposed glazing pocket at joint line; photo with scale.
13	Record substrate temperature and moisture using surface thermometer/moisture meter; acceptance: within product limits; log readings (°C, %).

Installation Quality	
14	Confirm safing orientation/fiber direction correct and pieces tightly butted; acceptance: no open seams > 2 mm; photo along joint.
15	Measure safing compression by pre/post thickness check; acceptance: compression per approved system; record calculated % at 3 locations per 10 m.
16	Verify retainer/clip spacing and embedment with a tape measure; acceptance: uniform and within specified maximum spacing; photo and spacing log (mm).
17	Check sealant/smoke seal at exterior or interior face per system; acceptance: continuous bead with depth $\approx$ width/2 $\pm$ 3 mm unless detailed otherwise; record depths.
18	Probe sealant adhesion to both substrates (gentle pick test); acceptance: firm bond, no debond > 10 mm; photo any repairs.
19	Inspect corners, mullion intersections, and changes in plane; acceptance: neatly lapped/formed, no voids > 2 mm; close-up photos.

Continuity, Penetrations, and Interfaces	
20	Verify tie-in to air/water barrier or backpan; acceptance: sealed laps and smoke seal continuity; photo overall and detail shots.
21	Seal around brackets, anchors, and penetrations; acceptance: no unsealed annular space > 2 mm; photo each penetration.
22	Confirm mullion heat/fire barriers at slab edge where required; acceptance: correct parts installed and continuous; record part numbers and photos.
23	Verify terminations at rated walls/columns; acceptance: continuous fire/smoke seal to adjacent rated construction per approved details; photo with referenced detail.

Evidence and Sign-off	
24	Capture photo documentation every ≤ 1.5 m with a scale and location ID; acceptance: clear, in-focus images stored in project folder.
25	Mark up as-built sketch showing joint widths, system IDs, and repair areas; attach to checklist.
26	Record ambient conditions ($^{\circ}\text{C}$, %RH, wind) during sealant application; acceptance: within manufacturer limits; log instrument and readings.
27	Obtain installer self-check and inspector approval before concealment; acceptance: digital signatures and QR-authenticated report filed.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect curtain wall perimeter firestopping before concealment is a critical hold-point that confirms the perimeter joint fire barrier is correctly installed prior to cladding, drywall, covers, or finish closures. This pre-concealment inspection of slab edge firestopping—often called safing, perimeter joint protection, or spandrel fire barrier—focuses on rated continuity, smoke seal integrity, and tested system conformity. Within scope are the horizontal slab-to-curtain wall joints, including mineral wool safing, mechanical retainers, smoke/fire sealants, and tie-ins to spandrel insulation and air/water barriers. Out of scope are shaft wall systems, vertical head-of-wall joints, and post-concealment destructive verifications. A thorough review reduces life-safety risk, air/smoke leakage, and rework from missed voids, weak adhesion, or incompatible materials. Outcomes include documented measurements, photo evidence, and sign-offs needed to release the concealment hold-point per approved project specifications and authority requirements. Use this interactive checklist to tick items, add comments, attach photos, and export PDF/Excel with a secure QR for traceability.	1. Preparation: Bring approved drawings, tested system listings, tape/feeler gauges, depth gauge, thermometer/moisture meter, PPE (gloves, eye protection), and a camera/tablet with the app installed. 2. Open the checklist for the specific elevation and level; confirm location, system ID, and rating fields are populated from submittals. 3. Walk the joint from corner to corner measuring at set intervals; tick items as you go and attach photos with visible scales and location tags. 4. Add comments where readings deviate; reference detail numbers; request corrective action and recheck using the same measurement points. 5. Export: Generate an interactive, comment-inclusive PDF/Excel report with embedded photo evidence and a QR code for authentication. 6. Sign-off: Capture installer and inspector digital signatures; distribute to stakeholders and archive the QR-authenticated report in the project records.