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# Test façade firestop systems at perimeter joints before concealment

Test façade firestop systems at perimeter joints before concealment using an interactive checklist that is commentable and can export as PDF/Excel, ensuring approvals before coverage.

Project:

Date:

Filled by:

## Pre-Testing Documentation

|   |                                                                                                                                                                                                                                                                                                                                 |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Confirm approved submittals and shop drawings for the perimeter firestop joint system are current and applicable to this area; review latest revisions and design details; acceptance: matches approved project specifications and authority requirements; evidence: upload signed review pages and referenced drawing numbers. |
| 2 | Verify safe access and working platforms at the façade perimeter; inspect guardrails, lifelines, and anchorage points; acceptance: compliant fall protection in place; evidence: photographs of access, permit numbers, and daily safety sign-in.                                                                               |
| 3 | Notify GC, façade installer, and inspector of test schedule and boundaries; issue marked plans with grid references; acceptance: written acknowledgments received; evidence: email confirmations and uploaded marked plan.                                                                                                      |
| 4 | Calibrate and verify measuring tools (steel rule, calipers, depth probe, torque wrench); acceptance: calibration within valid date; evidence: calibration certificates and tool serial numbers.                                                                                                                                 |

## Materials Verification

|   |                                                                                                                                                                                                       |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5 | Record firestop sealant manufacturer, product name, lot and expiry; acceptance: product matches approved submittal and within shelf life; evidence: photos of cartridges/tubes and recorded lot data. |
| 6 | Confirm mineral wool safing type, density, and thickness; acceptance: matches approved submittal; evidence: packaging label photos and delivery tickets.                                              |
| 7 | Verify accessories (backer rod, sprays, safing clips) are correct size and type; acceptance: consistent with approved submittal; evidence: photos with scale and part numbers.                        |
| 8 | Check substrates are clean, dry, and free of contaminants; method: wipe test and moisture reading; acceptance: moisture within manufacturer limits; evidence: photos and moisture meter readings.     |

| Installation Condition at Perimeter Joint |                                                                                                                                                                                                                                 |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9                                         | Measure joint width at 1 m intervals along the perimeter; acceptance: within specified range; evidence: dimension log noting min/max values and location-tagged photos.                                                         |
| 10                                        | Verify mineral wool installed continuous with correct orientation; method: visual check and probe; acceptance: fibers oriented to design, no voids; evidence: photos showing probe depth and orientation.                       |
| 11                                        | Check mineral wool compression uniformity; method: compare installed thickness to nominal using calipers/feeler gauge; acceptance: compression per approved project specifications; evidence: recorded measurements and images. |
| 12                                        | Confirm firestop continuity behind mullions, anchors, and brackets; method: mirror or borescope; acceptance: uninterrupted contact at all obstructions; evidence: borescope images with location tags.                          |
| 13                                        | Verify smoke seal is continuous along the joint; method: close visual inspection; acceptance: no gaps, holidays, or pinholes; evidence: close-up photos with a 10 mm scale.                                                     |
| 14                                        | Measure sealant depth and bead profile at sample cut-outs; method: depth gauge and clean cross-section; acceptance: depth/profile per approved submittal; evidence: measurements recorded with annotated photos.                |

| Continuity and Sealing Tests |                                                                                                                                                                                                                    |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15                           | Perform gentle pick test at random points to assess sealant bond; method: blunt probe; acceptance: cohesive response without adhesive failure; evidence: photos of probe points and notes.                         |
| 16                           | Conduct localized smoke-pencil check with small fan to induce flow; acceptance: no visible smoke passage through the joint; evidence: video/photos and test locations logged.                                      |
| 17                           | Verify safing clips and mechanical restraints are installed to design spacing; method: measure centre-to-centre distances; acceptance: spacing per approved submittal; evidence: photos with tape measure and log. |
| 18                           | Torque-check accessible anchors/clips; method: calibrated torque wrench; acceptance: torque values per approved project specifications; evidence: recorded torque values and digital signature.                    |
| 19                           | Confirm fire-resistive coating/spray coverage where required at spandrel; method: film thickness gauge and visual; acceptance: thickness per approved submittal; evidence: readings and photos with gauge.         |
| 20                           | Validate movement allowance remains unobstructed for thermal/drift; method: measure free space and check for rigid bridges; acceptance: clear of restraints per design; evidence: annotated photos and dimensions. |

| Records and Sign-Off |                                                                                                                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 21                   | Capture as-built photos at max 2 m spacing, plus overall context; acceptance: full visual coverage prior to concealment; evidence: geotagged or grid-referenced images.                   |
| 22                   | Mark tested areas on plans and assign unique joint IDs; acceptance: IDs traceable to measurements and media; evidence: uploaded redlined plans.                                           |
| 23                   | Record ambient temperature and relative humidity during testing; method: thermometer/hygrometer; acceptance: within application limits; evidence: logged readings with timestamps.        |
| 24                   | Obtain pre-concealment approvals from installer, GC, and inspector; method: digital signatures; acceptance: signed records archived; evidence: sign-off sheet with time/date and QR link. |

**Comments:**

Filled by:

Signature:

| Introduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | How to use this checklist                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Test façade firestop systems at perimeter joints before concealment to confirm continuity, compression, and sealing quality at the slab-edge curtain wall interface. This pre-cover inspection focuses on the perimeter fire barrier, smoke seal continuity, safing insulation placement, and movement accommodation so compliant performance is assured before finishes or covers are installed. You will verify materials against approved submittals, measure joint widths in SI units, check mineral wool orientation and compression, and confirm sealant depth, adhesion, and coverage including concealed areas behind mullions. Field checks such as smoke-pencil observation, torque verification of clips, and borescope confirmation reduce the risk of rework, air leakage, and noncompliance. The outcome is a photo-rich, traceable record that supports approvals per approved project specifications and authority requirements. Use the interactive checklist to tick items, add comments at locations, and export your evidence and sign-offs as PDF/Excel with a QR-secured link.</p> | <p>1. Preparation: Gather approved submittals, marked plans, PPE, steel rule, calipers, depth probe, torque wrench, borescope, smoke pencil, thermometer, and hygrometer. Ensure safe access (lifts, guardrails, harnesses) and calibrations are valid. 2. Open the checklist in interactive mode and select building level and grid line. Assign a unique joint ID to each test segment using the plan overlay. 3. Perform measurements and tests per item instructions. Attach photos, videos, and readings to the relevant item, and note exact locations in metres from a fixed datum. 4. Using the Interactive Checklist: Tick completed items, add comments for observations or defects, tag responsible parties, and set due dates for corrective actions. 5. Export and Review: Generate a draft report and export to PDF/Excel for team review. Use the QR-secured link to reference the full evidence set on site. 6. Sign-Off: Capture digital signatures from installer, GC, and inspector. Archive the final, QR-authenticated report and release the area for concealment.</p> |