



# Review façade interface with MEP penetrations & supports

Review façade interface with MEP penetrations and support systems using an interactive checklist; commentable steps and evidence capture, with export as PDF/Excel.

Project:
Date:
Filled by:

## Pre-Installation Coordination

1	Confirm approved façade and MEP coordination drawings list each penetration with X/Y/Z, service type, and rating; acceptance: all IDs mapped within $\pm 10$ mm of layout; evidence: approved submittals and model screenshots attached.
2	Verify façade build-up (cladding, sheathing, AVB, insulation) against MEP routes; acceptance: zero unresolved clashes noted in coordination log; evidence: signed clash report and marked drawings.
3	Confirm required fire, smoke, water, and acoustic ratings per approved project specifications and authority requirements; acceptance: rating recorded for each ID; evidence: penetration schedule updated.
4	Hold a pre-close cavity meeting (façade, MEP, firestop, QC); acceptance: attendance sheet and minutes uploaded; evidence: digital signatures captured.

## Penetrations and Sleeves

5	Measure core holes/sleeves for annular space 10–25 mm around services; acceptance: deviation $\leq \pm 3$ mm; evidence: tape readings and photos per penetration ID.
6	Verify sleeve length provides $\geq 50$ mm proud of façade layers to receive seals; acceptance: length within $\pm 5$ mm; evidence: caliper readings and close-up photo.
7	Check sleeve slope where drainage is required: outward fall 1:50; acceptance: 2% $\pm 0.5\%$ by digital level; evidence: level reading photo.
8	Confirm edge distance to framing or embeds $\geq 50$ mm or per submittal; acceptance: meets minimum without notching framing; evidence: measured dimension photo.
9	Install durable ID tags at each penetration (ID, rating, system); acceptance: tag fixed and legible; evidence: photo and register entry.

## Air/Water/Vapor Continuity

10	Prime and terminate AVB to sleeve with manufacturer system; laps $\geq 75$ mm, full adhesion; acceptance: no fishmouths or voids; evidence: close-up photos and peel-adhesion check recorded.
11	Install compatible collars/boots and wet-seal with specified sealant; acceptance: continuous 10–12 mm bead, no gaps; evidence: sealant lot number, expiry, and bead photo.
12	Fit insulation tightly around sleeves; gaps $\leq 5$ mm, filled with approved material; acceptance: no exposed thermal bridges; evidence: before/after photos.
13	Conduct localized water spray test per approved project method; 5 minutes coverage; acceptance: no ingress observed internally; evidence: video, test log, location plan.

Firestopping and Thermal/Acoustic Control	
14	Verify listed firestop system matches opening size, service type, and required rating; acceptance: components match listing; evidence: system sheet and label photo.
15	Pack annular space to listed depth and density; acceptance: depth within $\pm 5$ mm, tight contact 360°; evidence: depth gauge photo and material batch label.
16	Apply firestop sealant/mortar neatly to listed thickness; acceptance: full closure, no voids; evidence: wet film/thickness check and close-up photos.
17	Install intumescent wraps/collars for plastics/cables where required; acceptance: ID tag fixed with system reference; evidence: photo and installer certification.

Supports and Brackets at Façade	
18	Anchor MEP brackets/hangers to primary structure (embeds/steel), not cladding; acceptance: anchor torque within spec $\pm 10\%$ ; evidence: calibrated torque wrench log and anchor stamp photo.
19	Install thermal isolation pads at bracket interfaces; acceptance: $\geq 95\%$ bearing coverage, thickness per submittal $\pm 1$ mm; evidence: in-place photo and measurement.
20	Provide differential movement allowance (slots/slide plates) between façade and MEP supports; acceptance: $\geq 10$ mm free travel in movement direction; evidence: measured slot and unobstructed path photo.
21	Ensure corrosion protection: correct alloy/galvanizing; treat cut edges; measure coating DFT; acceptance: within specified $\mu\text{m} \pm 10\%$ ; evidence: DFT gauge readings and photos.
22	Install seismic restraints if required; maintain clearances at penetrations; acceptance: restraint tags present and clearances per design; evidence: photos and measurement log.

Testing and Documentation	
23	Perform air leakage check using smoke pencil or IR during pressure test per project method; acceptance: no visible plumes/thermal anomalies; evidence: images and test report.
24	Complete penetration register with before/after photos, rating, system ID, materials, and installer; acceptance: 100% fields completed; evidence: exported register.
25	Upload manufacturer checklists, material SDS, lot numbers, and approvals; acceptance: all documents linked to penetration IDs; evidence: document index screenshot.
26	Obtain final sign-offs from façade lead, MEP supervisor, and firestop inspector; acceptance: digital signatures, no open NCRs; evidence: signed closeout form.

**Comments:**

Filled by:

Signature:

Introduction	How to use this checklist
<p>Review façade interface with MEP penetrations and support systems ensures the building envelope remains continuous, durable, and compliant where services pass through cladding and where brackets meet the exterior wall. This checklist focuses on building envelope interfaces, curtain wall penetrations, and mechanical/electrical/plumbing supports that can compromise air, water, vapor, fire, acoustic, thermal, and structural performance if mishandled. You will verify sleeves and openings, AVB continuity, water-shedding details, insulation fit, listed firestop systems, corrosion protection, differential movement allowances, and bracket anchorage to the primary structure. The scope stops at the façade interface—no internal distribution or equipment commissioning—and excludes design re-engineering beyond approved project specifications and authority requirements. Done well, this review prevents leaks, air infiltration, thermal bridges, premature corrosion, failed fire separations, and cracked cladding from restrained movement. Use this interactive checklist onsite: tick each item, add comments, attach photos and readings, and export results to PDF or Excel. Scan or share the QR code to secure traceability with your team.</p>	<p>1. Preparation: Bring calibrated tape, digital level, torque wrench, DFT gauge, IR camera/smoke pencil, sealant gauges, PPE, approved drawings, submittals, and the penetration register on a tablet. 2. Open the checklist, select your project and façade elevation, and enable interactive mode; assign or scan a penetration/support ID to start a new record. 3. Work through grouped items; tick pass/fail, add comments, and attach photos, readings, lot numbers, and signatures directly to each step. 4. After area completion, generate a summary and export as PDF/Excel for distribution to façade, MEP, and QC teams. 5. Sign-Off: Capture digital approvals from responsible leads; archive the file with QR authentication for traceability and future audits.</p>