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Review Façade Acoustic Performance & Perimeter Sealing Details

Review façade acoustic performance requirements and perimeter sealing details with an interactive checklist. Commentable and ready to export as PDF/Excel for compliant delivery.

Project:	
Date:	
Filled by:	

Requirements & Design Criteria Review	
1	Confirm specified façade acoustic ratings and metrics for the perimeter (e.g., Rw/STC and flanking limits). Method: review specifications, drawings, and schedules with the acoustic report. Acceptance: targets clearly listed for each interface. Evidence: annotated spec extract signed by design and QA.
2	Map all façade-to-structure interfaces where flanking can occur (slab edges, columns, beams). Method: mark plans/elevations. Acceptance: a complete interface register with linear metres recorded. Evidence: redlined drawings and interface schedule uploaded.
3	Coordinate alignment of mass, air, and vapour layers across the perimeter. Method: BIM/2D detail review workshop. Acceptance: continuous layers shown without gaps or material conflicts. Evidence: meeting minutes and approved coordination sketches.
4	Verify joint movement, building tolerance, and deflection criteria that drive joint sizing. Method: structural output review and calculation check. Acceptance: designed joint widths accommodate movements per project specifications. Evidence: calculation extract and approval note.

Façade System Acoustic Components	
5	Confirm glazing build-up and interlayer orientation match approved acoustic submittals. Method: inspect delivery labels and sample cuts. Acceptance: glass type and thickness as submitted. Evidence: photos of labels, delivery dockets, and sample verification.
6	Verify spandrel zone insulation continuity around mullions and brackets. Method: open-up inspection before closure. Acceptance: no voids, gaps > 5 mm, or compression. Evidence: geo-tagged photos with scale ruler.
7	Check backpan/liner and internal seals for airtightness continuity. Method: flashlight and mirror inspection. Acceptance: no visible holes or unsealed penetrations > 2 mm. Evidence: close-up photos and punch list closure.
8	Confirm bracket/anchor isolation pads or bushings are installed to limit flanking. Method: physical check at sample locations per lot. Acceptance: isolation present at all brackets; fixings tight without bridging. Evidence: photos and batch records.

Perimeter Sealing Materials & Compatibility	
9	Approve sealant type, movement class, colour, and primer per façade substrates. Method: submittal and compatibility documentation review. Acceptance: products approved per project specifications and authority requirements. Evidence: product data sheets and written approvals.
10	Check substrate condition for dust, laitance, oils, and moisture before sealing. Method: solvent wipe, tape test, moisture meter (%). Acceptance: clean, sound substrate; moisture at or below manufacturer's limit. Evidence: photos and recorded moisture %.
11	Verify backer rod size relative to joint width. Method: calliper measurement and compression check. Acceptance: 25–50% compression; no punctures or continuity breaks. Evidence: recorded measurements and bead-by-bead photos.
12	Conduct field adhesion/compatibility test panel at representative substrates. Method: prepare mock-up, cure per manufacturer, perform hand peel. Acceptance: cohesive failure within sealant; no adhesion loss. Evidence: dated photos and signed field test report.

Installation & Site Verification	
13	Inspect sealant bead geometry and tooling quality. Method: depth gauge and visual check. Acceptance: uniform concave profile; full contact; depth/width within design ± 2 mm. Evidence: close-up photos and measurement log.
14	Ensure corners, terminations, and end dams are fully sealed and lapped. Method: targeted open-up and mirror inspection. Acceptance: continuous seal; no fish-mouths or voids. Evidence: annotated photos and closure confirmation.
15	Tie the air/vapour barrier into façade frames and adjacent assemblies. Method: smoke pencil along perimeter during temporary pressurisation. Acceptance: no observable leakage paths. Evidence: video/photo with test notes.
16	Seal all penetrations through the perimeter (brackets, fixings, services). Method: checklist walkdown with torch. Acceptance: 360° seal around each penetration; no gaps > 2 mm. Evidence: marked-up photos per location.
17	Protect freshly applied sealant from early water exposure and movement. Method: barricade and signage with curing time noted. Acceptance: no surface washout, dirt pick-up, or displacement. Evidence: site photos and curing log.

Field Acoustic & Airtightness Testing	
18	Perform site sound insulation test at selected rooms. Method: calibrated source and sound meter. Acceptance: meets or exceeds specified façade rating; record measured dB. Evidence: test report and instrument calibration certificates.
19	Scan joints during testing to locate flanking hot spots. Method: hand-held sound probe and close-range microphone. Acceptance: no locations > 3 dB above adjacent average after remedial sealing. Evidence: hotspot map and retest readings.
20	Conduct qualitative airtightness check of perimeter joints. Method: blower door or fan-assisted pressure, smoke/IR scan. Acceptance: continuous sealing; no visible smoke leakage trails. Evidence: IR images/videos with test pressures noted.
21	Verify that controlled water spray does not compromise acoustic seals. Method: hose test per project method statement. Acceptance: no debonding, foaming, or leakage. Evidence: test video and post-test inspection photos.

Documentation & Closeout	
22	Record batch numbers and expiry dates for sealants, primers, and backer rods. Method: photo capture and materials log. Acceptance: in-date, approved products only. Evidence: photos of labels and completed log.
23	Survey and record as-built joint dimensions along each elevation. Method: calliper/feeler and tape; log per grid. Acceptance: within design width ± 3 mm unless approved. Evidence: survey sheets and photos.
24	Update redline details for any approved deviation and issue as-built. Method: CAD markup and transmittal. Acceptance: designer approval recorded. Evidence: signed PDFs and revision register.
25	Obtain warranties and O&M; instructions for sealant inspection and maintenance. Method: collect from manufacturers. Acceptance: terms and care procedures per project specifications. Evidence: uploaded PDFs and receipt log.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Review façade acoustic performance requirements and perimeter sealing details sets a clear process to confirm sound insulation targets, airtight interfaces, and robust perimeter joints. It guides coordination of façade sound insulation, acoustic rating compliance (e.g., Rw/STC), and sealing strategies that prevent flanking transmission. The scope focuses on the façade-to-structure perimeter: slab edges, jambs, heads, sills, mullion bypasses, spandrel zones, and bracket penetrations. By emphasizing air barrier continuity, compatible sealants, and correct joint geometry, the checklist helps avoid costly noise complaints, condensation risk, and call-backs. It clarifies roles for design managers, façade contractors, and acoustic consultants, ties submittal reviews to field verification, and links site testing with closeout documentation, per approved project specifications and authority requirements. Use this interactive checklist to tick items, add comments with photos and readings, and export as PDF/Excel. Start now, collaborate in real time, and secure your record with the built-in QR code.	1. Preparation: assemble project specifications, acoustic report, approved submittals, drawings, and method statements. Bring tools: moisture meter, callipers, depth gauge, smoke pencil, flashlight, IR camera, calibrated sound meter. 2. Preparation: brief the team (design manager, façade contractor, acoustic consultant) on inspection scope, test locations, safety, and access sequencing. 3. Preparation: set up evidence capture—mobile camera with geo-tag, file naming convention, and folder structure for photos, readings, and approvals. 4. Using the Interactive Checklist: start interactive mode, tick items as completed, and add time-stamped comments with photos, measurements, and product labels. 5. Using the Interactive Checklist: assign actions to responsible parties, track closures, and export in-progress status to PDF/Excel for coordination meetings. 6. Sign-Off: upload test reports, calibration certificates, warranties, and redlined drawings; request digital signatures from contractor, consultant, and client. 7. Sign-Off: export final, commentable record as PDF/Excel and archive with the embedded QR code for authenticity verification.