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Inspect façade thermal bridge treatment and insulation continuity

Inspect façade thermal bridge treatment and insulation continuity with an interactive checklist—commentable and ready to export as PDF/Excel—for reliable façade QA and compliance on site.

Project:	
Date:	
Filled by:	

Pre-Installation Verification	
1	Confirm latest approved façade thermal-bridge details and insulation schedules are on site; verify drawing numbers and revisions match submittals; photograph title blocks and approvals; record verifier initials and date.
2	Check substrate flatness with a 2 m straightedge; maximum deviation ≤ 5 mm for board insulation; photograph straightedge and tape reading at highest gap.
3	Measure substrate moisture: timber ≤ 19% with pin meter; concrete dry-to-touch and ≤ 75% RH ambient; log readings with meter make/serial and room conditions.
4	Verify thermal break and insulation products: type, thickness, λ-value and density per submittal; record batch/lot numbers; attach manufacturer DoP/COC and photos of labels.

Thermal Breaks at Structure Interfaces	
5	Inspect slab-edge thermal break continuity; no visible gaps > 3 mm; pads/strips tight to structure; photograph every 5 m and at corners/returns.
6	Check brick support/shelf-angle isolation: continuous thermal shims/pads installed; no metal-to-metal contact; torque bolts to specified value using calibrated wrench; record torque and pad locations.
7	Verify balcony connectors: correct model, spacing, and embedment; thermal module undamaged; bolts torqued to manufacturer value; photograph ID tags and torque readings per connector.
8	Confirm parapet/roof-edge thermal separation: insulation returns up and over; thermal break plates continuous; no exposed bridging steel; capture close-ups at laps and terminations.

Continuous Insulation Installation	
9	Measure insulation thickness at 1 in 20 boards using calipers; tolerance –0/+5 mm against design; log readings and board batch numbers with photos.
10	Verify board layout: joints staggered ≥ 150 mm; mechanical fixings pattern per specification; spacing tolerance ± 50 mm; minimum 5 fixings/m² unless specified; photograph grid and a measured bay.
11	Treat gaps: fill any joint > 2 mm with compatible insulation strips or low-expansion foam; final residual gap ≤ 2 mm; document before/after photos with feeler gauge.
12	Maintain continuity over thermal bridges: extend insulation across shelf angles, lintels, and upstands as detailed; no exposed metal bypass; photograph each interface after installation.

Air/Vapour Barrier Continuity at Façade	
13	Check AVB membrane laps: horizontal ≥ 100 mm, vertical ≥ 150 mm; roll with pressure seam roller; perform peel test ≥ 1.0 N/mm at 23 °C; record results and photos.
14	Seal transitions AVB-to-structure (slab edge, columns) with compatible tape/sealant; continuous, pinhole-free bead; wet-film thickness per product data; capture close-ups along full transition.
15	Inspect penetration collars/boots: fully bonded, clamped, and wrinkle-free; smoke pencil indicates no leakage; upload video/photo evidence and note product batch.
16	Repair AVB punctures with manufacturer patch exceeding hole by ≥ 100 mm all around; roll and label repair date; photograph each patch and log coordinates.

Openings and Penetrations Interfaces	
17	Window perimeter thermal break: install insulated shims/frames; continue insulation to frame reveal; perimeter gap ≤ 5 mm before sealant/backer; take interior and exterior photos.
18	Heads/sills/jambs: provide rigid insulation or thermal break angle per detail; maintain drainage/weep paths unobstructed; photograph continuous coverage and weep outlets.
19	MEP sleeves and brackets: wrap to same insulation thickness; isolate brackets with thermal pads; ensure AVB/WRB tape seals to sleeve; photo each sleeve and tag ID.
20	Curtain wall anchors: install specified thermal isolators behind brackets; no direct metal contact to structure; verify bolt torque with calibrated wrench; photo each anchor type location.

Evidence and Sign-Off	
21	Compile product data: λ-values, densities, thicknesses, and approvals; attach DoP/COC and installation instructions; link to checklist items for traceability.
22	Perform spot infrared thermography where enclosure is closed and $\Delta T \geq 10$ K (dawn/dusk preferred); mark anomalies on elevation; upload IR and daylight pairs with locations.
23	Complete elevation markups showing continuous insulation and thermal breaks; list unresolved items with corrective actions; obtain supervisor/consultant digital sign-off.
24	Final photo log: capture every 5 m along façades and all transitions; ensure date/time and location metadata; export album and attach to inspection record.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect façade thermal bridge treatment and insulation continuity is a focused quality assurance activity that confirms continuous insulation and effective thermal breaks across the building envelope. This checklist supports façade insulation continuity checks, thermal bridging mitigation, and thermal break inspection at slabs, anchors, parapets, openings, and penetrations. The scope covers material verification, substrate readiness, installation tolerances, air/vapour barrier interfaces, and evidence capture. It excludes detailed structural, fire-stopping, or acoustic performance reviews beyond what affects thermal continuity. Getting this right prevents cold spots, interstitial condensation, mould risk, and energy waste while delivering predictable U-values and occupant comfort. You will confirm drawings and submittals, measure thicknesses, control jointing and fastener layouts, test adhesion and airtight transitions, and document compliance with photos, readings, and signatures per approved project specifications and authority requirements. Use this interactive checklist to tick items, add comments with location tags, and export your records to PDF/Excel; a QR code secures traceability on site.	1. Preparation: gather 2 m straightedge, calipers, feeler gauges, moisture meter, peel test kit, smoke pencil, calibrated torque wrench, IR camera (optional), PPE, and access equipment. Load approved drawings/submittals and set up location tags and photo folders by elevation and gridline. 2. Using the Interactive Checklist: start interactive mode, tick items as completed, attach photos/videos and readings, and add location-stamped comments. Cross-link to detail references. When done for an area, export the current view to PDF/Excel for distribution. 3. Sign-Off: obtain digital signatures from supervisor, installer, and consultant; archive the record in the project system. Share the export and verify authenticity using the embedded QR code for quick field retrieval.