



Inspect façade vapor barrier continuity and sealed overlaps

Inspect façade vapor barrier continuity and sealed overlaps with an interactive checklist, fully commentable and export as PDF/Excel for compliant façades with photo evidence, measurements, and adhesion results.

Project:

Date:

Filled by:

Pre-Inspection & Setup

1	Confirm current approved façade VCL drawings/specifications on device; log document numbers and revisions; note any related RFIs.
2	Calibrate tools: spring scale (0–20 N), thermometer/hygrometer, 2 m straightedge, silicone roller; verify calibration tags; record photos and expiry dates.
3	Record ambient conditions: 5–35 °C, 30–70% RH, wind ≤ 8 m/s or per specifications; timestamp readings; pause work outside limits.
4	Verify safe access: scaffolds/MEWPs inspected today, edge protection in place, task lighting ≥ 200 lux; attach site safety photos and permits.

Substrates & Alignment

5	Check substrate dryness: timber $\leq 15\%$ moisture, concrete visibly dry; capture moisture meter readings with location tags and photos.
6	Measure surface evenness with 2 m straightedge; deviations ≤ 5 mm; mark high spots; record corrective actions before membrane application.
7	Ensure fasteners/edges are flush and deburred; protrusions < 1 mm; remove or grind; attach close-up photos of remediated areas.
8	Apply primer where specified: coverage 0.25–0.35 L/m ² ; observe open time; record batch/lot numbers and uniform sheen photographs.

Membrane Continuity

9	Confirm uninterrupted membrane from slab-to-slab; no exposed substrate; take panorama photos at least every 5 m bay.
10	Roll membrane with silicone roller at 30–50 N; acceptance: no wrinkles/fishmouths > 5 mm; add before/after macro photos.
11	Conduct 180° hand-peel checks; minimum adhesion 1.0 N/mm using spring scale; record values, locations, and photos.
12	Verify shingle sequencing to shed incidental moisture; upper sheets overlap lower; mark arrows in chalk; photograph reference areas.

Overlaps & Sealing	
13	Measure lap widths: horizontal ≥ 100 mm; vertical ≥ 75 mm; take three measurements per bay; attach photos with tape measure visible.
14	Check tape/adhesive continuity along laps; no voids > 10 mm; re-roll until uniform squeeze-out; log product and lot numbers.
15	Treat internal/external corners with gusset or preformed corners; extend ≥ 150 mm each leg; provide close-up photos with dimensions.
16	Reinforce T-junctions/end laps with 150×150 mm patches; stagger joints ≥ 300 mm apart; photograph each reinforced junction.

Penetrations & Terminations	
17	Wrap window/door openings; adhere to frame/flange ≥ 100 mm; apply continuous compatible sealant bead 8–12 mm; photo bead continuity.
18	Seal service penetrations using preformed boots or collar plus butyl tape; clamp if required; no visible gaps; attach close-ups.
19	Install termination bars where specified; fixings ≤ 200 mm c/c; seal top edge; record anchor torque values and product data.
20	Maintain continuity at roof/soffit/adjacent wall transitions using approved strips ≥ 150 mm each side; reference detail and photos.

Testing & Documentation	
21	Verify VCL location on the warm side relative to insulation per approved project specifications and authority requirements; annotate photos.
22	Log overlap measurements and adhesion spot-checks at least every 10 m or per opening; capture date, bay, and elevations.
23	Repair defects: cut blister, dry area, prime if required, patch with ≥ 100 mm overlap all around; re-roll and re-measure adhesion; document.
24	Final QA: joint walkdown with installer and supervisor; attach photos, batch labels, and readings; apply digital signatures and generate QR audit.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect façade vapor barrier continuity and sealed overlaps is a focused quality control task that confirms the vapor control layer is continuous, correctly lapped, and reliably sealed across the façade. This checklist targets the façade membrane or vapor retarder, often referred to as the air/vapour control layer (AVCL) in drawings, and concentrates solely on continuity and overlap sealing before cladding. By checking substrates, lap dimensions, tape or adhesive coverage, corner treatments, penetrations, and terminations, you reduce the risk of interstitial condensation, mould growth, corrosion, and envelope failures. Clear acceptance criteria—lap widths in millimetres, peel strength in N/mm, roller pressure, and photographic evidence—deliver traceable outcomes that withstand audits and protect warranties. Use this interactive tool to capture readings, batch numbers, annotated photos, and signatures in real time. Start in interactive mode, tick off steps, add comments where corrections are needed, and export results to PDF or Excel with a secure QR code for verification.	1. Preparation: Review approved façade VCL details; assemble tools (spring scale, 2 m straightedge, silicone roller, tape measure, hygrometer, camera), compatible primers/tapes, and PPE; verify safe access, weather conditions, and work sequencing with the façade team. 2. Project setup: Open the checklist app, select building, elevation, and bay; preload drawings and product data sheets; enable location tagging so photos and measurements are mapped to exact façade areas. 3. Using the Interactive Checklist: Start interactive mode, tick items as verified, add time-stamped comments, attach annotated photos, and log measurements (mm, N/mm). Nonconformances create action cards with due dates and responsible parties. 4. Export and sharing: On completion, export the record as PDF/Excel with embedded photos, measurements, and batch numbers; share with stakeholders or upload to the CDE for review. 5. Sign-Off: Capture installer and supervisor digital signatures; generate a QR-authenticated audit trail; archive by elevation/bay and link to pre-cladding inspection approvals.