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# Vertical PVC/Bituminous Membrane Installation Checklist

Vertical PVC/Bituminous Membrane Installation Checklist for walls; interactive checklist, commentable steps, and export as PDF/Excel. Verify substrates, laps, terminations, and plinth details.

Project:
Date:
Filled by:

## Pre-Installation Preparation

1	Review approved documents and ensure all materials, tools, and permits are in place.
2	Confirm delivery condition and storage: PVC/bituminous rolls upright, dry, 5–30 °C; record batch/lot numbers, COAs, and MSDS with photos.
3	Verify tool readiness: hot-air welder calibration certificate, seam roller, torch (if applicable), seam probe; log calibration settings and gas leak test results.
4	Implement safety controls: PPE, hot-work permit, 9 kg extinguishers within 10 m, fire watch plan; upload permit references and station photos.

## Substrate Verification (Vertical)

5	Measure substrate moisture with a CM meter; accept $\leq 5\%$ by mass or per system; record readings, locations, and timestamps.
6	Check evenness using a 2 m straightedge; tolerance $\leq 3$ mm deviation; grind high spots and recheck; add before/after photos.
7	Remove dust, oil, laitance, and curing residues by grinding or shot-blasting; note method, area (m <sup>2</sup> ), and upload cleanliness photos.
8	Repair voids and cracks $> 2$ mm with polymer-modified mortar; respect cure time; document product, batch, and ambient conditions with photos.
9	Verify plumb and corners: $\leq 5$ mm in 2 m; install 45° fillets at internal corners with compatible mastic/mortar; photo evidence.

## Membrane Application (Vertical)

10	Apply approved primer uniformly by roller at specified rate; no puddles or pinholes; record consumption versus area and drying time.
11	Confirm ambient/substrate temperature 5–35 °C and $\geq 3$ °C above dew point; log readings with a hygrometer/IR thermometer and time-stamp.
12	Hang first sheet plumb from base upward using clamps/temporary fixings; ensure no wrinkles or fishmouths; capture alignment photos with level.
13	Bond sheet per system (self-adhere/torch/adhesive) using a silicone roller; verify full contact by tap test; log zones corrected.

Laps and Seams (Vertical)	
14	Mark lap lines: PVC ≥ 50 mm; bituminous ≥ 80–100 mm or per system; photo close-ups with ruler for each elevation.
15	Weld PVC laps using calibrated hot-air welder and roller; achieve continuous bead; record temperature, nozzle, and travel speed.
16	Torch-weld bituminous laps to form 3–5 mm bleed line without scorching; document bead continuity and corrective actions with photos.
17	Probe-test all seams; rectify fishmouths immediately; perform peel test (1 per 20 m) expecting cohesive failure; log locations and results.

Terminations & Flashings (Vertical)	
18	Install termination bars at top edges into sound substrate; spacing per system (e.g., 150–200 mm centres); verify torque and fastener type.
19	Apply compatible sealant over termination bar/reglet as continuous fillet; capture continuous bead photos and record sealant batch/expiry.
20	Detail vertical penetrations with pre-formed boots or patches; fully weld/adhere; conduct 5-minute targeted spray test; attach photos and notes.

Plinth Terminations (Base of Wall)	
21	Terminate membrane at plinth/kicker with compression bar or reglet ≥ 150 mm above finished grade; seal continuously; photo with tape measure.
22	Install protective/drainage board at plinth to shield membrane; fix per system; document product, fixation pattern, and area (m <sup>2</sup> ).
23	Form drip-edge or bead to shed water away from plinth; verify continuity at corners; supervisor sign-off and photos required.
24	Complete final inspection: mark seam map, terminations, and plinth details; upload as-built photos; collect installer, supervisor, and QA signatures.

**Comments:**

Filled by:

Signature:

Introduction	How to use this checklist
<p>Vertical PVC/Bituminous Membrane Installation Checklist gives project teams a focused, field-ready process to install vertical waterproofing membranes correctly on walls. It covers vertical waterproofing membranes from both PVC and bituminous systems, including bituminous torch-on vertical membrane work and PVC wall liners, without touching any horizontal scopes. The checklist zeroes in on substrate verification, seam laps, top and side terminations, and the critical detailing at plinths to keep water out for the structure's lifespan. By enforcing temperature and moisture controls, strict overlap dimensions, calibrated welding or torching, and verified termination bars and sealants, teams reduce rework, blistering, and hidden leaks in backfilled conditions. Practical acceptance cues—such as evenness tolerances, confirmed dew point margins, and documented peel tests—anchor decisions and sign-offs. Use this interactive checklist on site: tick items as you go, add comments to flag punch points, and attach photos and readings. When complete, export to PDF/Excel and secure records with a QR-backed audit trail.</p>	<ol style="list-style-type: none"> <li>1. Preparation: gather approved drawings, system datasheets, calibrated tools (welder, probe, moisture meter), and materials. Confirm permits and safety gear. Define inspection lots and assign responsible persons.</li> <li>2. Open the checklist, enable interactive mode, and set project, location, elevation, and date. Preload acceptance criteria, testing frequency, and photo requirements according to the approved project specifications and authority requirements.</li> <li>3. Execute field checks in order. Tick items as completed, enter measurements and observations, and attach photos, readings, and batch numbers. Use mandatory fields to prevent missing evidence.</li> <li>4. Use comments to flag nonconformities, assign actions with due dates, and mention stakeholders. Add follow-up photos and verification notes once corrective works are complete.</li> <li>5. Review completion percentage, validate required evidence, and obtain digital signatures from installer, supervisor, and QA. Confirm any outstanding snags are closed.</li> <li>6. Export the checklist as PDF/Excel, generate a QR-secured record link, and archive within the project's document control system for traceable audits and handover.</li> </ol>