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Inspect façade water-tightness test setup before testing

Inspect façade water-tightness test setup before testing with an interactive checklist that's commentable and can export as PDF/Excel, ensuring compliant, traceable pre-test verification on site.

Project:

Date:

Filled by:

Test Equipment & Calibration

1	Confirm differential pressure gauge/transducer has a valid calibration certificate (within 12 months) and perform zero check; acceptance: zero drift ≤ 2 Pa over 60 s; evidence: photo of label and certificate.
2	Inspect all pressure and manometer tubing for airtight connections using leak detector solution; acceptance: no bubble formation and stable reading ± 1 Pa; evidence: close-up photos.
3	Verify blower/fan capacity can achieve target static pressure with $\geq 10\%$ margin; acceptance: manufacturer curve confirms duty point; evidence: annotated fan curve and nameplate photo.
4	Sync data logger and camera timestamps to site clock; acceptance: time offset ≤ 2 s; evidence: screenshot of settings and a timestamp test photo.

Test Chamber & Spray System

5	Inspect chamber frame alignment and gasket contact to façade; acceptance: continuous contact line with no visible gaps; evidence: perimeter photos with feeler gauge checks ≤ 1 mm.
6	Check chamber joints and penetrations with a smoke pencil; acceptance: no smoke bypass detected for 60 s; evidence: video clip and annotated stills.
7	Verify spray rack nozzle spacing and orientation against approved drawings; acceptance: spacing within ± 10 mm and perpendicularity within $\pm 5^\circ$; evidence: tape measure and angle gauge photos.
8	Measure nozzle flow rate at three representative locations using a calibrated flow meter; acceptance: each within project-specified L/min $\pm 10\%$; evidence: flow readings log and meter serial.
9	Conduct a 5-minute pre-wet coverage check using a contrasting sheet; acceptance: continuous water film with no dry zones; evidence: before/after photos showing uniform wetting.

Specimen & Site Conditions	
10	Confirm test area location and dimensions match the approved test plan; acceptance: boundaries within ± 25 mm; evidence: marked perimeter photos with measurements.
11	Verify sealants, gaskets, and coatings within test area have met minimum cure time; acceptance: documented cure per manufacturer; evidence: installation log and product datasheet excerpts.
12	Set operable components (vents, windows, doors) to the specified state (locked/latched as required); acceptance: states match test plan; evidence: photos of handles/locks and checklist tick-off.
13	Record ambient conditions: air temperature ($^{\circ}\text{C}$), relative humidity (%), and wind speed (m/s); acceptance: within project-specified ranges; evidence: calibrated instrument photos and readings.

Water Supply & Drainage	
14	Verify water supply temperature and conductivity meet specification; acceptance: temperature and $\mu\text{S}/\text{cm}$ within stated limits; evidence: handheld meter readings with serial number photo.
15	Check supply pressure stability with a regulator upstream of spray rack; acceptance: fluctuation $\leq 5\%$ over 5 minutes; evidence: pressure log and regulator setting photo.
16	Confirm chamber drainage and interior protection are in place; acceptance: capacity $\geq$ expected spray flow + 20%; evidence: drainage path photos and quick capacity calculation note.
17	Place calibrated collection trays/cylinders to quantify any leakage; acceptance: volumes clearly marked and verified; evidence: calibration photo and inventory list.

Instrumentation & Documentation	
18	Label sensors, cables, hoses, and zones with unique IDs; acceptance: IDs match test plan legend; evidence: tag photos and cross-referenced layout sketch.
19	Position interior cameras/observers to view all joints and interfaces; acceptance: unobstructed coverage with visible timestamps; evidence: test clip and camera placement photos.
20	Verify latest approved drawings, test plan, and permits are on site; acceptance: document numbers and revisions current; evidence: cover pages and permit display photo.
21	Create baseline photos of façade surfaces, joints, and interior finishes prior to testing; acceptance: 100% coverage of test area; evidence: indexed photo set and map.

Safety & Protection	
22	Install exclusion barriers and signage around the test zone; acceptance: signage legible at 5 m and pathway clear; evidence: wide-angle site photos.
23	Verify electrical safety: use RCD/GFCI on pumps/fans and test trip; acceptance: trip test successful; evidence: device labels and trip-test photo with timestamp.
24	Protect adjacent finishes and weep paths with secured poly sheeting and tape; acceptance: shielding intact and no blockage of drainage; evidence: close-ups and overall view.
25	Conduct a toolbox talk covering hazards, emergency stop, communications, and roles; acceptance: attendance sheet signed; evidence: scanned sign-in and briefing photo.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect façade water-tightness test setup before testing is the essential step that prevents wasted time, false failures, and repeat work. This pre-test verification focuses on chamber-based façade water penetration testing, ensuring the spray rack, pressure chamber, and data logging are configured per approved project specifications and authority requirements. By validating spray coverage, pressure stability, water quality, drainage capacity, and sensor calibration before any cycle begins, teams protect the building envelope test from bias and obtain clean, defensible results. The scope covers the test rig, façade specimen readiness, instrumentation, site conditions, and safety barriers; it excludes the actual execution and performance assessment of the water-tightness test. Outcomes include reliable test data, reduced disruption to occupants, and clear photographic and measured evidence suitable for project records. Use this interactive checklist to assign actions, tick items, leave comments on photos and readings, and export your signed report as PDF or Excel with a QR-secured audit trail.	1. Preparation: Gather chamber and spray rack components, calibrated gauges, flow meter, handheld weather station, smoke pencil, poly sheeting, labels, and PPE (gloves, eye/ear protection). Ensure water supply, drainage paths, stable power with RCDs, and access/permits are available per approved project specifications and authority requirements. 2. Using the Interactive Checklist: Open interactive mode, assign items, and tick each step as completed. Attach photos, readings, and certificates; add comments where tolerances are marginal. Generate a live QR code for on-site verification, then export the report to PDF or Excel for distribution. 3. Sign-Off: Capture digital signatures from the responsible inspector, contractor, and client representative. Lock the record, archive it in the project folder, and share the QR-authenticated report link with stakeholders for traceable closeout.