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Inspect façade field water testing and defect recording

Inspect façade field water testing and defect recording with an interactive checklist, commentable and export as PDF/Excel, to verify leaks and document closure.

Project:	
Date:	
Filled by:	

Pre-Test Administration	
1	Confirm test locations against drawings and sampling plan; mark elevations and grid references on the façade; place QR stickers at each test area. Acceptance: consultant/QA approval recorded. Evidence: annotated elevation photo and approval signature.
2	Verify façade readiness: glazing, sealants, gaskets, perimeter flashings, and drainage paths installed and cured per approved specifications. Acceptance: no temporary openings or missing components. Evidence: dated photos and material lot/batch records.
3	Calibrate/verify instruments: spray rack flowmeter, nozzles, pressure gauges/manometer, timer, thermometer, and moisture meter. Acceptance: within calibration validity; functional checks passed. Evidence: calibration certificates and setup photos of gauge readings.
4	Record environmental conditions: ambient temperature, wind speed/direction, and precipitation status before testing. Acceptance: within project test plan limits. Evidence: anemometer/thermometer readings and weather station screenshot with timestamp.

Test Setup (Spray Rack and Pressure)	
5	Assemble spray rack with specified nozzles and spacing; verify uniform spray pattern against a test board. Acceptance: consistent coverage pattern observed. Evidence: photo/video of pattern verification and nozzle identification.
6	Position rack to cover the specimen and required perimeter; shield adjacent areas. Acceptance: full target area coverage confirmed. Evidence: water-sensitive paper or chalk test photo proving perimeter wetting.
7	Install pressure chamber or depressurization apparatus to achieve target differential across the specimen. Acceptance: stable differential within project tolerance. Evidence: manometer trend screenshot and start/finish readings.
8	Seal unintended interior openings and protect finishes with polyethylene sheeting and absorbent pads. Acceptance: only design joints and interfaces are exposed. Evidence: interior protection photos and supervisor sign-off.
9	Place collection trays and moisture sensors beneath critical interfaces; record baseline dry readings. Acceptance: baseline shows no moisture increase. Evidence: moisture meter 0% (or baseline) log and interior pre-test photos.

Environmental and Safety Controls	
10	Establish a test exclusion zone with cones and signage; brief crew on risks. Acceptance: barriers in place and briefing completed. Evidence: area photo and toolbox talk attendance sheet.
11	Confirm PPE and electrical safety: waterproof boots/gloves and GFCI-protected pump/power. Acceptance: GFCI test button trip verified. Evidence: GFCI test photo and log entry.
12	Route and secure hoses/cables to remove trip or abrasion hazards; add drip trays. Acceptance: no kinks, sharp bends, or pooling at walkways. Evidence: routing photos and site inspection note.
13	Verify safe access: MEWP pre-use checks or scaffold green tag current. Acceptance: inspection valid for the day. Evidence: tag photo and operator license check.

Execution and Monitoring	
14	Stabilize the pressure system at target differential before water application. Acceptance: steady reading maintained for the specified pre-wet period. Evidence: manometer photo with timer in frame.
15	Start water spray and maintain required flow rate and duration; log flow and time. Acceptance: continuous, uniform spray at target flow. Evidence: flowmeter/timer log and continuous video segment.
16	Conduct interior visual checks with flashlight and inspection mirror at joints, corners, anchors, and interfaces. Acceptance: no water beyond interior plane. Evidence: timestamped photos; include a 150 mm scale in frame.
17	Record moisture sensor and pad conditions at 5-minute intervals. Acceptance: readings remain at baseline or within allowable drift. Evidence: interval log with photos of meter display.
18	If penetration occurs, note time, rack position, pressure, and wind; trace probable path. Acceptance: complete incident record created during test. Evidence: annotated plan sketch and narrated video clip.

Defect Recording and Classification	
19	Assign a unique defect code, severity, and probable cause; affix QR label at the location. Acceptance: QR resolves to defect record. Evidence: QR-in-place photo and digital record link.
20	Capture close-up and context video of leak onset, flow path, and cessation. Acceptance: footage clearly shows behavior and timing. Evidence: video file with timestamps linked to the record.
21	Collect small samples if required (sealant offcuts, gaskets, failed fasteners); bag and label. Acceptance: chain-of-custody completed. Evidence: labeled bag photo and signed form.
22	Notify responsible contractor and consultant through the platform; assign corrective action with due date. Acceptance: acknowledgment recorded. Evidence: comment thread screenshot with timestamps.
23	Install temporary containment to protect interiors (poly sheeting, tape, foam backer) until repair. Acceptance: no further interior wetting. Evidence: mitigation photos and incident note.

Post-Test Restoration and Reporting	
24	Stop water and depressurization; allow drain-down; remove trays and sensors. Acceptance: no residual pooling or active drips. Evidence: post-test interior/exterior photos.
25	Remove protections and clean the area; restore to original condition. Acceptance: zero damage or residue. Evidence: facility/GC representative sign-off and photos.
26	Compile the report: test plan, conditions, equipment, readings, media, results, and defects. Acceptance: QA lead review completed. Evidence: digitally signed PDF and distribution log.
27	Schedule rectification and retest; update records with results and closure status. Acceptance: all defects closed or formally deferred per approvals. Evidence: retest logs and closure signatures.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect façade field water testing and defect recording helps site teams execute spray-rack water penetration testing on installed façades and document any leakage for accountable closure. Within this scope, you will prepare test areas, apply controlled water spray with a defined pressure differential, and verify performance of glazing, curtain wall, and cladding interfaces. Related practices include building envelope water penetration testing and curtain wall leak testing, but this checklist focuses on a spray-rack field test with measured differential pressure rather than a free-spray hose test. By standardizing setup, environmental controls, observation, and evidence capture, you reduce rework, protect interiors, and produce defensible results per approved project specifications and authority requirements. Outcomes include reliable pass/fail determinations, clear defect coding, targeted remedial actions, and scheduled retesting. Use this interactive checklist to tick tasks, add time-stamped comments, attach photos or videos, and export to PDF/Excel with a secure QR link for verification.	1. Preparation: Gather spray rack, flowmeter, manometer, timer, moisture meter, PPE, protection materials, and access equipment. Confirm test areas, drawings, permits, and environmental limits per the approved test plan. 2. Open the checklist and switch to interactive mode. Select your test location, scan or place a QR label, and review the required instruments, media, and acceptance criteria before starting. 3. During testing, tick steps as completed, add time-stamped comments, and attach photos/videos of patterns, gauges, and observations. Use elevation grids in comments for precise locations. 4. Collaborate live: mention subcontractors, assign corrective actions with due dates, and capture acknowledgments. Use defect IDs and QR tags to link physical points to records. 5. Export your run to PDF/Excel for consultant review, including logs and media. Share the secure QR link so recipients can validate authenticity on-site. 6. Sign-Off: Obtain digital signatures from QA lead, contractor, and consultant. Archive the final report and retest outcomes in the project document control system.