



# Test façade installed glazing for water-tightness after sealing completion

Test façade installed glazing for water-tightness after sealing completion using an interactive checklist that is commentable and can export as PDF/Excel for traceable, leak-free verification.

Project:
Date:
Filled by:

## Pre-Test Verification

1	Verify sealant cure status using manufacturer datasheet and batch labels; accept only cured per specification; capture datasheet, lot numbers, and timestamped photos of joints.
2	Review approved drawings/specifications for joint locations and test extents; mark elevation on plan; acceptance: test zone matches approved submittal; evidence: marked drawings and supervisor sign-off.
3	Visually inspect sealant continuity with flashlight and inspection mirror; acceptance: continuous, void-free bead with proper tooling; evidence: macro photos at corners, terminations, and splices.
4	Confirm drainage/weep paths are unobstructed using a plastic probe; acceptance: clear weeps and baffles as designed; evidence: close-up photos and checklist tick with location tags.

## Test Setup and Calibration

5	Select test method (calibrated hose or spray rack) per approved project specifications; acceptance: method authorization recorded; evidence: method noted and approver's digital signature.
6	Calibrate pressure and flow using inline gauge and flow meter; acceptance: readings within specified range ( $\pm 10\%$ ); evidence: photos of gauges with values and equipment serial numbers.
7	Set nozzle/spray heads to perpendicular orientation; maintain target distance 350 mm $\pm$ 50 mm; acceptance: angle $90^\circ \pm 10^\circ$ ; evidence: ruler-in-frame photos and operator statement.
8	Protect non-test openings and finishes with polyethylene sheeting and tape; acceptance: only designated joints exposed; evidence: wide-angle photos before water application.

## Protection and Monitoring

9	Place absorbent pads and trays at interior sills; acceptance: no water beyond protection perimeter; evidence: pre/post photos and waste disposal log for saturated pads.
10	Install witness paper or moisture-indicating tape along interior joint lines; acceptance: no discoloration or swelling; evidence: close-up photos before and after test.
11	Assign interior and exterior observers with two-way radios; acceptance: continuous communication log maintained; evidence: observer names, timestamps, and radio channel noted.
12	Record ambient conditions with thermometer, hygrometer, and anemometer; acceptance: within specified limits (e.g., 5–35 °C, wind $\leq$ 5 m/s); evidence: readings logged with time.

Water-Spray Application	
13	Begin at lowest joints and progress upward to prevent masking; acceptance: sequence followed; evidence: video clip or time-stamped photos of starting location.
14	Apply uniform sweeping pattern with 50% overlap; dwell per specification at each joint/intersection; acceptance: full coverage; evidence: dwell times recorded to the second.
15	Focus on perimeter seals, mullion intersections, corners, anchors, and penetrations; acceptance: 100% of designated features sprayed; evidence: marked elevation highlighting covered areas.
16	Maintain constant nozzle motion to avoid pooling; acceptance: no sustained ponding at glazing edges; evidence: exterior video segment showing technique and distance.

Observation and Evidence Capture	
17	Continuously inspect interiors for drips, damp patches, or streaks; acceptance: zero visible water; evidence: observation log with timestamps per sprayed location.
18	Measure moisture at suspect points with a calibrated meter; acceptance: $\leq$ baseline + 1% moisture content; evidence: meter reading photos with serial number.
19	Record precise leak locations on elevation (X/Y from datum, $\pm 10$ mm); acceptance: coordinates and extent documented; evidence: annotated drawings and interior photos.
20	Capture equipment certificates valid within 12 months; acceptance: current calibration certificates on file; evidence: PDFs attached and QR-linked in report.

Post-Test Assessment and Rectification	
21	If leakage occurs, pause test and trace source using smoke pencil or borescope; acceptance: root cause identified; evidence: annotated photos and narrative.
22	Install temporary protections (tarps, wet vac) to prevent damage; acceptance: interiors safeguarded; evidence: incident log, photos, and cleanup records.
23	Execute repairs per manufacturer instructions; document materials and cure times; acceptance: supervisor approval prior to re-test; evidence: lot numbers and sign-off.
24	Re-test only affected zones after full cure; acceptance: zero interior water for full dwell; evidence: pass recorded with stakeholder digital signatures.

**Comments:**

Filled by:

Signature:

Introduction	How to use this checklist
<p>Test façade installed glazing for water-tightness after sealing completion is a structured field procedure to confirm that perimeter seals, gaskets, and interface joints prevent interior water ingress. This checklist supports water penetration testing using a calibrated hose test or spray rack test on curtain wall or window wall glazing. It focuses strictly on post-sealant verification of installed façade glazing, not laboratory mock-ups or air infiltration testing. By validating sealant cure, equipment calibration, spray distance, angle, and dwell time, you reduce the risk of hidden moisture, warranty disputes, and downstream damage to finishes or insulation. Outcomes include documented compliance per approved project specifications and authority requirements, traceable measurements, and clear pass/fail evidence tied to locations. Use this interactive checklist to tick each step, add comments with photos, and export results to PDF/Excel with a secure QR link for project records.</p>	<p>1. Preparation: Assemble calibrated hose or spray rack, gauges, flow meter, thermometer, hygrometer, anemometer, radios, witness media, absorbent pads, and PPE. Confirm sealant cure and approved method per project specifications. Brief the team on roles, safety, and communication. 2. Using the Interactive Checklist: Start interactive mode, tick tasks as completed, and add time-stamped comments with photos or videos at each location. Record measurements, equipment serials, and ambient conditions. Validate coverage by marking tested segments on the embedded elevation. 3. Export and Share: After completion, generate a commentable report and export as PDF/Excel. The system appends a QR code for authentication. Share with the façade contractor, consultant, and client for coordinated review and action tracking. 4. Sign-Off: Capture digital signatures from the tester, façade contractor, and owner's representative. Archive calibration certificates, photos, and checklists under the test lot or elevation ID for traceable handover.</p>