



# Test Façade Penetration Seals for Water Resistance Checklist

Test façade penetration seals for water resistance after completion with an interactive checklist that is commentable and lets you export as PDF/Excel.

Project:
Date:
Filled by:

## Pre-Test Verification

1	Confirm as-built drawings identify every façade penetration; verify sealant/system cure time is complete per manufacturer data sheet and project specifications; record dates and approvals; capture photos of locations.
2	Visually inspect seal continuity and adhesion using flashlight and inspection mirror; no gaps > 2 mm, no voids, tears, or debonds; photograph with a scale and note observations.
3	Protect adjacent finishes, electrics, and openings with plastic sheeting and tape; confirm protections overlap by $\geq 200$ mm; photo evidence of protections before wet work.
4	Check weather: wind speed $\leq 3$ m/s, air temperature 5–35 °C, no driving rain; measure with anemometer and thermometer; log readings and time-stamp.
5	Establish interior access/visibility and place drip trays and absorbent pads; take baseline moisture readings with a calibrated meter; record location and values.

## Test Setup

6	Calibrate spray nozzle/rack using a flowmeter and stopwatch to deliver 3–5 L/m <sup>2</sup> -min; achieve within $\pm 10\%$ of target; record calibration sheet and photo of gauge.
7	Mark a test zone around the penetration ( $\geq 300$ mm radius) and grid key interfaces; include labels visible in photos; capture overall and close-up images.
8	Set nozzle distance $300 \pm 50$ mm and perpendicular angle ( $90^\circ \pm 10^\circ$ ) using a ruler and angle gauge; verify before each run; photograph setup with scale.
9	If specified, create interior pressure differential $50 \pm 5$ Pa using a fan and manometer; stabilize for $\geq 2$ minutes pre-spray; log continuous pressure trace.

## Water Spray Test Execution

10	Begin continuous uniform spray covering the upper quadrant and sides; avoid direct jetting into openings; duration 5 minutes per location; video with time-stamp.
11	Move spray at 150–200 mm/s to ensure full, even wetting; verify coverage overlaps by $\geq 50$ mm; maintain flow within $\pm 10\%$ ; video evidence of movement and gauge.
12	Include brackets, escutcheons, fixing points, and seal terminations in the spray pattern; checklist each sub-area; capture close-up photos immediately after wetting.
13	Assign an interior observer with flashlight and moisture indicator paper; acceptance: no drips, wetting, or damp odour during spray; real-time log of observations.
14	Repeat for lower interface and underside where geometry allows, keeping identical parameters and duration; confirm sequence on log; add comparative photos.

Post-Test Assessment	
15	Take interior moisture readings at and around penetration ( $\leq$ baseline + 2% or $\leq$ 16% WME where applicable); record instrument ID and calibration date.
16	Open small access cover or use a borescope at the annulus if accessible; acceptance: no droplets, tracks, or damp staining; capture stills from borescope.
17	Monitor for delayed seepage for 10 minutes post-spray using timer; acceptance: no damp patches forming; record time-lapse photos or video.
18	Map any suspected leakage path externally with wax pencil and ruler; mark start/stop points; photograph with measurement scale for traceability.

Remedial Actions & Re-Test	
19	If leakage is observed, cease spraying, cordon area, and place caution signage; document incident time, location, conditions; photo evidence of isolation.
20	Remove failed sealant/gasket; abrade and clean substrate per manufacturer guidance; acceptance: clean, dry, sound surfaces; photos before/after prep.
21	Install approved repair material per data sheet; respect cure time and environmental limits; record product name and lot/batch numbers; keep delivery dockets.
22	Re-test the same penetration using identical flow, distance, and duration; acceptance: zero water penetration; attach comparative moisture readings and video.

Documentation & Sign-Off	
23	Complete test log: location ID, orientation, weather, flow, distances, durations; attach calibrated instrument certificates; ensure all fields are filled.
24	Upload photos/videos with time-stamps; annotate leakage maps; link to drawing references; acceptance: each penetration has a complete media set.
25	Obtain digital sign-offs from contractor, QA, and client representatives; include names, roles, and timestamps; verify QR-authenticated export integrity.
26	Archive reports in the CDE; tag model/drawings with test status; note "per approved project specifications and authority requirements" in final summary.

**Comments:**

Filled by:

Signature:

Introduction	How to use this checklist
<p>Test façade penetration seals for water resistance after completion to confirm the building envelope remains watertight around pipes, conduits, brackets, and fixings. This checklist focuses on directed-spray hose testing (water spray test) of finished façade penetration seals, addressing leakage verification without damaging completed finishes. You will prepare the area, calibrate water delivery, control environmental conditions, execute a uniform spray pattern, and observe the interior with moisture meters and borescopes. The scope excludes structural seal design, air-infiltration testing, or unrelated façade elements; it targets post-installation water testing of penetration interfaces only, per approved project specifications and authority requirements. By applying disciplined setup and acceptance criteria—no visible water ingress, stable moisture readings, and documented evidence—you reduce risks like concealed dampness, corrosion, mould growth, and warranty disputes while delivering traceable quality outcomes. Use this interactive page to tick steps, add comments, attach photos or videos, and export the record as PDF/Excel with a secure QR code.</p>	<p>1. Preparation: Gather a calibrated spray nozzle or rack, flowmeter, stopwatch, ruler, angle gauge, anemometer, thermometer, moisture meter, borescope, flashlight, PPE, and protection sheets. Verify sealant cure, manage weather/wind limits, and set safe access. Brief roles for sprayer and observer. 2. Using the Interactive Checklist: Open interactive mode, tick each step as completed, add comments, and upload photos/videos and readings. Tag each penetration with a unique ID and location. When finished, export the commentable record as PDF/Excel with an embedded QR code. 3. Sign-Off: Capture digital signatures from the installer, QA lead, and client. Distribute the QR-authenticated export, then archive the package in your CDE under the correct drawing references for future audits and warranty support.</p>