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Inspect waterproofing at balcony threshold & façade junctions

Inspect waterproofing at balcony threshold and façade junctions with an interactive checklist. Commentable steps; export as PDF/Excel for records and sign-off.

Project:

Date:

Filled by:

Pre-Inspection & Documentation

1	Verify latest approved drawings, waterproofing details, ITP, and method statements are uploaded. Acceptance: current revisions only. Evidence: file references, dates, and responsible engineer's digital signature.
2	Confirm membrane, primer, and sealant datasheets are on-site. Record product names, lot numbers, and expiry dates. Acceptance: within shelf life and specified system. Evidence: photos of labels and recorded batches.
3	Record ambient temperature, substrate temperature, and relative humidity using calibrated meters. Acceptance: within manufacturer application ranges. Evidence: readings (°C, %RH), device ID, and timestamped photos.
4	Confirm edge protection and access are in place to prevent damage to finished membranes. Acceptance: barriers installed and tagged. Evidence: photos and site safety permit reference.

Substrate & Slope

5	Inspect substrate for soundness and cleanliness; remove laitance, dust, and protrusions. Perform adhesion pull-off test if required. Acceptance: pull-off strength meets manufacturer minimum. Evidence: MPa readings and patch photos.
6	Measure slope to drain with digital level or laser. Acceptance: even falls toward outlets, typically 1:80–1:100 unless specified otherwise. Evidence: mm per metre readings and marked slope photos.
7	Check formed upstands, rebates, and fillets at internal corners around the threshold and façade junctions. Acceptance: dimensions per detail; smooth radii for membrane continuity. Evidence: measured dimensions (mm) and close-up photos.
8	Measure substrate moisture with a concrete moisture meter. Acceptance: ≤ 5% surface moisture or per specification. Evidence: meter model, calibrated date, and logged readings with photos.

Membrane & Flashings

9	Apply primer uniformly; verify coverage using a wet film thickness gauge. Acceptance: within manufacturer-stated microns. Evidence: WFT readings, batch number, and area photos before/after.
10	Install membrane with rolled seams. Acceptance: laps meet or exceed manufacturer minimum (typically ≥ 75 mm), no fish-mouths. Evidence: measured lap widths and seam roller photos.
11	Reinforce all internal/external corners and changes of plane with pre-formed corners or extra plies. Acceptance: wrinkle-free, fully bonded. Evidence: close-up photos and marked locations.
12	Extend vertical upstands at threshold and façade junctions to the specified height; terminate with termination bar or compatible sealant. Acceptance: height and termination per detail. Evidence: measured heights (mm) and fixings photos.
13	Install metal flashings/drip edges aligned with falls; fasteners located above waterline and sealed. Acceptance: continuous drip and sealed penetrations. Evidence: fastener spacing (mm) and edge profile photos.

Threshold Interface Details

14	Install a sill pan at the door threshold with end dams, lapped over the balcony membrane. Acceptance: watertight continuity beneath frame. Evidence: photos before frame fix and lap measurements.
15	Seal threshold upstand to door frame using compatible sealant and backer rod. Acceptance: joint width/depth per system; full adhesion without voids. Evidence: measured joint dimensions and sealant batch record.
16	Verify door track/drainage weep paths are unobstructed and discharge to balcony drainage. Acceptance: free flow. Evidence: pour 1–2 L water; record flow video and time to clear.
17	Confirm protection angles or trims at the threshold do not puncture the primary membrane, or penetrations are sealed with system accessories. Acceptance: no exposed fasteners in wet zone. Evidence: close-up photos.

Façade Junction Details

18	Tie balcony membrane into façade cladding/rainscreen air/water barrier with compatible materials. Acceptance: continuous barrier with shingle laps. Evidence: overlap dimensions (mm) and sequence photos.
19	Detail movement joints at the façade–balcony junction using bond breaker tape and compatible sealant. Acceptance: joint geometry per manufacturer; no three-sided adhesion. Evidence: joint measurements and backer installation photos.
20	Seal through-fixings, balustrade stubs, and brackets near junctions with grommets or boots. Acceptance: fully bonded collars; correct torque on fixings. Evidence: collar photos and torque values (N·m).
21	Install cavity trays/flashings with drip edges and clear weeps above junctions as detailed. Acceptance: continuous drip; unobstructed weeps. Evidence: photos and verified weep spacing (mm).

Testing, Protection & Handover	
22	Conduct drainage test by pouring 10–20 L water near threshold. Acceptance: water reaches outlets without ponding; clears in ≤ 3 minutes. Evidence: timestamped video and notes.
23	Perform controlled flood test if permitted: maintain 25–50 mm head for 24 h per approved project specifications and authority requirements. Acceptance: no leakage below. Evidence: start/finish photos, level marks, and sign-offs.
24	Run uniform hose/spray test at threshold and façade junctions for 15 minutes. Acceptance: no internal moisture; post-test meter $\leq 0.5\%$ at sensitive areas. Evidence: photos and readings.
25	Install protection boards or separation layers before screeds/pavers; tape seams and protect edges. Acceptance: full coverage; no exposed membrane. Evidence: area photos and material records.
26	Complete as-built updates, warranties, and this checklist; obtain digital signatures from contractor, consultant, and client. Acceptance: all items closed with evidence. Evidence: exported PDF/Excel and QR-authenticated archive link.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect waterproofing at balcony threshold and façade junctions is a critical quality step that prevents leakage at door thresholds and wall interfaces. This checklist targets balcony door threshold waterproofing, façade-to-balcony interface detailing, membrane terminations, sill pans, and sealant joints. It focuses on buildable, verifiable actions: substrate preparation, slope to drain, corner reinforcement, termination bars, and compatible sealants that maintain continuity from horizontal to vertical surfaces. You will confirm dry substrates, correct upstand heights, clear drainage paths, and properly detailed movement joints around cladding junctions. The outcome is durable, testable watertightness that protects interiors, finishes, and structure while supporting warranties. By following these steps, you reduce callbacks from ponding, capillary tracking, wind-driven rain intrusion, and concealed moisture. Use this interactive checklist on mobile or desktop to tick off tasks, attach photos, log readings, and reference approvals. Invite teammates to comment, then export to PDF/Excel for sign-off and archive via a secure QR code.	1. Preparation: Bring drawings/details, manufacturer datasheets, calibrated moisture meter, digital level/laser, wet film gauge, sealant tools, buckets, hose/spray head, PPE, and a camera-enabled device. 2. Site readiness: Ensure safe access, edge protection, clean substrates, and visible drains. Confirm weather and substrate temperatures meet product requirements. 3. Open the checklist on mobile or tablet; preload area IDs, product batches, and test locations to streamline evidence capture. 4. Using the Interactive Checklist: Tick items as you inspect, attach photos and videos, and log measurements (mm, °C, %RH, MPa) directly in each step. 5. Comment in-context on nonconformances; assign actions with due dates. Reinspect and close items with corrective evidence before proceeding. 6. Export: Generate a commentable review link, then export the final record as PDF/Excel with embedded photos, readings, and drawings. 7. Sign-Off: Capture digital signatures from contractor, consultant, and client. Archive the report with a QR code for authentication and retrieval.