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Inspect façade interface—balustrades and guardrail fixings

Inspect façade interface with balustrades and guardrail fixings using an interactive checklist that is commentable and can export as PDF/Excel. Verify anchors, sealing, tolerances, and QR-secured sign-offs.

Project:	
Date:	
Filled by:	

Pre-Inspection & Safety	
1	Confirm permit-to-work, task briefing, and fall protection in place using harnesses, edge protection, and tags; capture JSA/RA sign-off and site photos before accessing the façade line.
2	Review approved drawings, specifications, and manufacturer data for anchor type, embedment, spacing, and loads; record document numbers and revision dates in the checklist.
3	Verify torque wrench and pull-tester calibration certificates are valid (≤6 months) and within range; attach certificates and tool serial numbers.
4	Establish an exclusion zone below the working area with barriers and signage; photograph set-up and note times to control third-party risk.

Substrate & Interface Preparation	
5	Confirm substrate strength via core test report or rebound hammer readings; acceptance: meets or exceeds design values per approved project specifications; upload report.
6	Mark fixing layout from control lines using laser and chalk; verify edge distances and centres within ±5 mm of drawings; photograph markings.
7	Check bearing surface flatness under baseplates with a 300 mm straightedge; acceptance: gaps ≤2 mm; record measurement photos.
8	Clean fixing zones of dust, laitance, oils using vacuum and solvent wipes; acceptance: visually clean and dry; capture before/after images.

Anchors & Fixings Installation	
9	Confirm anchor type, diameter, embedment depth, and drill diameter against manufacturer data; measure with callipers and depth gauge; tolerance: ±5 mm; record values.
10	Drill holes using a rotary hammer and correct bit; control depth with stop and maintain perpendicularity within ±2°; log depth and angle checks.
11	Clean each drilled hole with blow–brush–blow sequence using oil-free air and nylon brush; acceptance: no visible dust; attach cleaning photos or short video.
12	Install chemical anchors using approved resin; discard first mix, inject from base, and note ambient/substrate temperatures; record batch/expiry and curing time per TDS.
13	Tighten mechanical anchors with a calibrated torque wrench to manufacturer N·m value; acceptance: achieves torque without spinning or pull-out; record torque.
14	Verify stainless steel grade, protective coatings, and fastener markings; acceptance: materials match approved submittals; upload mill certificates and coating reports.
15	Install dielectric isolators, sleeves, or washers to prevent bimetallic contact between dissimilar metals; acceptance: continuous separation; photograph details.

Waterproofing & Thermal Separation	
16	Prime substrates where required and apply compatible sealant around penetrations; tool continuous 360° bead (10–15 mm); acceptance: full adhesion; photo evidence.
17	Fit EPDM/compression collars or preformed gaskets at posts; ensure uniform compression without gaps; wet test if specified; record observations and images.
18	Install thermal break pads beneath baseplates to reduce thermal bridging; ensure full bearing; shim with non-absorbent packers ≤2 mm; record pad type and thickness.
19	Reinstate membranes or flashings around fixings with approved overlaps and sealant; acceptance: continuous weatherproof layer; document with close-up photos.

Alignment, Testing & Documentation	
20	Plumb each post with a digital level; acceptance: deviation ≤2 mm per 1 m; upload level readings and images.
21	Verify post centres and offsets using laser distance meter; tolerance: ±5 mm to drawings; record as-built dimensions in checklist.
22	Perform on-site proof pull-out tests on sample anchors using a calibrated tester; acceptance: achieves design service load without movement; log kN values and graphs.
23	Compile material batch numbers, TDS, curing times, torque logs, and photos; acceptance: all traceability fields completed and cross-referenced to location IDs.
24	Obtain digital sign-offs from supervisor, inspector, and contractor; export report to PDF/Excel with embedded QR for authentication and archive.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect façade interface with balustrades and guardrail fixings is a critical site activity ensuring safe, durable edge protection at building perimeters. This checklist targets façade interface details, balustrade anchorages, guard rail connections, and penetration sealing on concrete, steel, and masonry substrates. It excludes handrail fabrication quality and unrelated façade cladding systems. By verifying substrate capacity, anchor embedment, corrosion protection, waterproofing continuity, thermal breaks, and tolerance control, teams prevent water ingress, bimetallic corrosion, thermal bridging, loosening fixings, and fall hazards. Outcomes include traceable torque and pull-out readings, photographic evidence, batch records, alignment measurements, and approvals that support progressive sign-off and commissioning. Use this interactive, commentable tool to tick items, log observations, assign actions, and export evidence-rich reports as PDF/Excel via a secure QR link.	1. Preparation: gather approved drawings, manufacturer data sheets, torque wrench, pull-tester, laser, digital level, PPE, and fall-protection equipment. 2. Set up the project in the platform, define façade grid locations, and add anchor types, materials, and responsible persons. 3. Open interactive mode on a mobile or tablet, start at the first location, and tick items as you verify conditions. 4. Attach photos, torque readings, pull-test results, and batch labels to each line item; add comments and @assign actions. 5. Use validation prompts to ensure tolerances are entered; unresolved comments remain flagged until closed by a responsible party. 6. Export the completed checklist to PDF/Excel, embedding photos and data tables; share the QR-secured link with stakeholders. 7. Obtain digital signatures from contractor, supervisor, and inspector; archive the signed report to the project document control system.