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Test façade access rails and traveler systems pre-handover

Test façade maintenance access rails and traveler systems before handover with our interactive checklist, commentable and ready to export as PDF/Excel for compliant sign-off.

Project:	
Date:	
Filled by:	

Pre-Test Documentation & Safety Controls	
1	Confirm approved method statement, risk assessment, and rescue plan on-site; verify latest drawings and manufacturer manuals are AFC. Acceptance: all documents approved per project/authority; Evidence: photos of stamps/revisions and sign-offs.
2	Establish 2 m exclusion zones at roof edge and below façade; install barriers and warning signage. Acceptance: continuous perimeter with no unauthorized entry; Evidence: area photos and permit-to-work record.
3	Check PPE for all involved (full-body harness, double lanyard, helmets, gloves); record harness serials and inspection dates. Acceptance: within service life, no damage; Evidence: serial log and photos.
4	Conduct toolbox talk covering hazards, communication protocol, and emergency roles; test radios. Acceptance: 100% attendance; Evidence: signed briefing sheet and time-stamped radio test record.

Rail System Inspection & Tests	
5	Visually inspect rails, joints/splices, brackets, and welds using flashlight and mirror; mark defects. Acceptance: no visible cracks, deformation, or coating damage exposing base metal; Evidence: annotated photos.
6	Measure rail straightness and level using laser line and digital level. Acceptance: deviation ≤ 3 mm over 10 m and level within ±1 mm/m, or per approved specifications; Evidence: recorded readings and layout sketch.
7	Torque-check rail brackets/anchors with a calibrated torque wrench. Acceptance: within design torque ±10% (per manufacturer/project); Evidence: torque log with values and wrench calibration certificate.
8	Proof-load selected rail brackets/anchors with a hydraulic tester. Acceptance: apply specified proof load (e.g., 1.25× service) for 60 s; displacement ≤ 2 mm; Evidence: gauge photo and displacement reading.

Traveler/Cradle Mechanical & Functional Tests	
9	Inspect traveler trolley wheels, flanges, and bearings; check lubrication. Acceptance: no flat spots; diameter variance ≤ 1 mm across wheels; free spin ≥ 10 s; Evidence: photos and measurements.
10	Verify end stops/buffers installed and secure; measure clearance to rail ends. Acceptance: end-of-travel switch/stop engages ≥ 150 mm before rail end; Evidence: close-up photos and measurements.
11	Run traveler full rail length at low and rated speeds without load. Acceptance: no binding/derailment; travel time for 50 m within ±10% of rated; Evidence: video and time log.
12	Test parking/service brakes with cradle at mid-span and 100% WLL suspended. Acceptance: no creep > 5 mm over 5 min; Evidence: time-lapse or video and measurement photo.

Electrical & Control System Tests	
13	Perform insulation resistance test on motors and control circuits with a 500 V DC megohmmeter. Acceptance: ≥ 1 MΩ or per manufacturer; Evidence: megger readings and calibration certificate.
14	Verify earth continuity from traveler/cradle frame to building earth using an earth tester. Acceptance: ≤ 0.5 Ω (or project requirement); Evidence: test reading and photo of connection point.
15	Test emergency stop, limit switches, and interlocks including end-travel and tilt sensors. Acceptance: motion cut-off < 1 s; switches actuate before physical end stop; Evidence: test log and photos.
16	Check control pendant/remote: deadman operation, correct direction labeling, and enclosure IP integrity. Acceptance: no unintended motion; labels legible; enclosure undamaged; Evidence: photos and functional tick sheet.

Load & Rescue Testing	
17	Static load test using calibrated water bags/dynamometer to 125% WLL on mid-span. Acceptance: hold 10 min with no permanent deformation; rail deflection within manufacturer limit; Evidence: load curve and deflection gauge photos.
18	Dynamic function test at rated load: 10 start/stop cycles and full-length traverse. Acceptance: smooth motion; overspeed trip verified; surface temperatures ≤ 60 °C; Evidence: cycle log and IR thermometer readings.
19	Proof-load traveler tie-off/fall-arrest points per manufacturer using a calibrated rig. Acceptance: hold specified load (e.g., 12 kN for 3 min); residual displacement ≤ 1 mm; Evidence: test report and photos.
20	Conduct rescue drill simulating incapacitated operator from mid-span to safe zone. Acceptance: completed within 15 min with correct devices; Evidence: video, attendance sheet, and signed drill evaluation.

Handover Documentation & Tagging	
21	Affix durable asset tags on rails and traveler stating WLL, serials, test date, and next due. Acceptance: labels legible and secured; Evidence: close-up photos.
22	Compile and upload O&M; pack: as-builts, manuals, commissioning forms, test certificates, and calibration records. Acceptance: complete index verified; Evidence: digital link and approval signature.
23	Deliver operator training on normal/emergency operation and daily checks; assess competence. Acceptance: minimum two trained operators; assessment score ≥ 80%; Evidence: attendance and assessment records.
24	Generate QR code linking to this checklist and manuals; verify scan at access points; obtain final sign-offs. Acceptance: QR functional; client/contractor/inspector signatures captured; Evidence: QR screenshots and signed certificates.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Test façade maintenance access rails and traveler systems before handover is the final assurance that building maintenance units (BMUs), roof-mounted tracks, and suspended cradle travelers operate safely and as designed. This checklist targets pre-commissioning verification of façade access rails and the associated traveler system, covering alignment, fixings, electrical controls, braking, and load testing. By focusing strictly on rails and travelers, it excludes permanent lifelines not integral to the traveler and unrelated façade equipment. Thorough testing reduces risks of derailment, dropped objects, uncontrolled motion, electrical faults, and rescue delays, while protecting warranties and handover timelines. Methods reference calibrated torque tools, laser alignment, proof-load rigs, megohmmeters, and dynamometers, with acceptance per approved project specifications and authority requirements. Evidence capture—photos, readings, serials, and signatures—creates a defensible audit trail for owners, contractors, and independent inspectors. Use this interactive template to tick items, add comments, and export results to PDF/Excel using the embedded QR code for rapid verification.	1. Preparation: Gather approved drawings, manufacturer manuals, method statement, and rescue plan. Bring calibrated torque wrench, laser level, hydraulic pull tester, dynamometer/water bags, megohmmeter (500 V), earth tester, IR thermometer, anemometer, radios, and full PPE. 2. Set site controls: Establish exclusion zones above/below, confirm permits-to-work, secure edge protection, stage rescue kit, and brief roles. Verify weather conditions within operating limits and confirm radio communications. 3. Start interactive mode: Open the checklist, assign roles, and load asset data (serials/WLL). For each item, attach photos and readings, and note witnesses. Use comments to flag issues and tag responsible parties. 4. Execute tests and record evidence: Tick items as completed, enter measured values, and capture calibration certificates. Use the comment thread to log corrective actions and re-test confirmations. 5. Export and share: Generate a PDF/Excel export with embedded photos, measurements, and comments. Share the file link or QR code with stakeholders for review and acceptance. 6. Sign-off and archive: Capture digital signatures from contractor, client, and (if applicable) independent inspector. Archive the signed export in the O&M; library and confirm QR signage points to the latest revision.