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Inspect Façade Anchor Pull-Out Testing and Acceptance

Inspect façade anchor pull-out testing and acceptance with an interactive, commentable checklist that exports as PDF/Excel for evidence and compliant acceptance.

Project:

Date:

Filled by:

Safety & Access Controls

1	Confirm access platform (scaffold or cradle) has a current inspection tag; verify harness tie-offs; upload tag photo; acceptance: valid daily check and compliant access route.
2	Establish an exclusion zone beneath test area with barrier tape and signage; photo showing coverage; acceptance: zone extends beyond expected drop radius per site risk assessment.
3	Verify weather and surface conditions allow testing (dry, clean, within platform operating limits); attach weather log screenshot; supervisor signs task risk assessment.
4	Confirm work-at-height permit and task briefing completed; upload signed permits and attendance; acceptance: permits valid for test period and scope.

Pre-Test Documentation

5	Verify approved anchor type, size, and lot numbers against submittals; photograph packaging and labels; acceptance: matches manufacturer, model, and lot in approved schedule.
6	Confirm test plan: sample size, proof/ultimate load, dwell time, and locations per approved project specifications and authority requirements; record consultant approval.
7	Mark each test point on elevations with a unique ID; record grid reference/elevation; upload marked drawing and on-site mark photo.
8	Identify substrate type and thickness at each point (e.g., concrete grade, masonry unit); attach as-built or scan; acceptance: substrate meets design assumptions.
9	Check embedment depth and service clearance using a scanner/detector; attach scan image; supervisor confirms safe drilling/engagement zone.

Equipment Calibration & Setup

10	Verify hydraulic pull tester serial number and current calibration certificate; upload certificate; acceptance: serials match and certificate in date.
11	Select pull adapter and reaction ring compatible with the anchor; ensure concentric loading; photo of setup; acceptance: full thread/eye engagement without bending.
12	Inspect hoses, gauge, and frame; perform zero and leak checks; record in pre-test log; acceptance: stable zero and no visible leakage.
13	Place reaction ring on firm, flat bearing with packers as needed; level check photo; acceptance: ring sits evenly and clear of weak edges.

Test Execution	
14	Expose and clean the anchor head; remove sealant/finish locally without damage; upload before/after photos; acceptance: clean, undamaged anchor interface.
15	Fit adapter and tighten to manufacturer torque using a calibrated wrench; record torque value; acceptance: full engagement, no thread slip.
16	Apply seating preload per procedure to remove slack; log initial displacement; acceptance: stable reading before main loading commences.
17	Increase load in agreed increments at a controlled rate; hold each dwell per plan; record load and displacement at every increment.
18	Observe façade and substrate for cracking, spalling, or movement; capture close-up photos and notes at each increment; acceptance: no progressive distress at proof load.
19	Reach target proof load and hold for specified dwell; record dwell duration and final displacement; acceptance: displacement within allowable limit, no failure.
20	If failure occurs, record peak load and failure mode (cone, bond, steel); mark location; notify engineer for instruction before proceeding.

Data Recording & Acceptance	
21	Complete test record: ID, date/time, location, anchor details, substrate, temperature/moisture; attach photos; tester signature captured.
22	Verify gauge readings and calculate achieved capacity; compare with required value per approved project specifications and authority requirements; record clear pass/fail.
23	Summarize lot/elevation results; highlight nonconformances; propose remedial actions (retest, density increase, resin change) for engineer review; upload summary sheet.
24	Update marked-up drawings or model with color-coded results and IDs; acceptance: each tested point traceable to evidence; export updated PDF.

Post-Test Actions	
25	Reinstate finishes and seals at tested points as directed; upload completion photos; acceptance: weather-tight and visually consistent repair.
26	Tag accepted zones with durable labels showing test date and QR link to report; photo; acceptance: label legible and securely fixed.
27	Hold a close-out briefing on findings and lessons learned; capture attendee signatures; file minutes in project records.
28	Obtain digital approvals from contractor, consultant, and client; archive in CDE; export final report as PDF/Excel with QR authentication.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect façade anchor pull-out testing and acceptance is a critical field process used to validate the tensile capacity of façade restraint anchors before full system installation. This checklist supports anchor proof testing, pull testing, and fixing validation on concrete or masonry substrates. It focuses on planning, safe access, calibrated equipment, controlled load application, displacement measurement, and evidence capture. By following a consistent procedure, teams confirm substrate suitability, verify installation quality, and reduce the risk of panel movement, cracking, or detachment. The scope covers in-situ anchors used for brackets, sub-frames, and cladding supports; it excludes laboratory coupon testing and structural load testing of complete façade assemblies. You will record loads, dwell times, and displacements, and compare results with the required characteristic resistance per approved project specifications and authority requirements. Use this interactive checklist to tick steps, comment on issues, attach photos and readings, and export as PDF/Excel with a QR-secured audit trail.	1. Preparation: gather the approved test plan, calibrated pull tester, adapters, PPE, permits, and marked drawings; brief the team on loads, dwell, and safety. 2. Project setup: open the checklist, enter project/elevation details, define test zones, and assign unique test IDs to planned locations. 3. Start interactive mode: tick items as you proceed on site, attach photos, readings, and calibration certificates directly to each test ID. 4. Collaborate: add comments, tag stakeholders for clarifications, and resolve threads; the system records a timestamped discussion history. 5. Review acceptance: compare recorded capacities with required values; the checklist highlights passes, flags nonconformances, and prompts remedial actions. 6. Export and share: generate a consolidated PDF/Excel report with embedded photos and a QR code linking to the source records. 7. Sign-off and archive: capture digital signatures from contractor, consultant, and client; publish to the CDE and lock the record.