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# Inspect dynamic façade control cabling and protected routing

Inspect dynamic façade control cabling and protected routing using an interactive checklist. Commentable steps and evidence included. Export as PDF/Excel.

Project:
Date:
Filled by:

## Pre-Inspection Setup

1	Confirm latest approved drawings, cable schedules, and method statements are on device; mark inspection lot/zone and obtain permit/approval per approved project specifications and authority requirements; attach document revision photos.
2	Isolate façade actuators and controllers; apply lockout/tagout at supply and local isolators; record isolation points and capture photos of LOTO tags before touching any cable.
3	Verify test equipment calibration: multimeter and insulation tester have calibration within 6 months; record serial numbers and certificates; attach photos of labels.
4	Establish safe access to façade (MEWP/scaffold) with edge protection; check wind < 10 m/s and no rain; photo of access and weather log.

## Cable Specification & Condition

5	Confirm control cable type, voltage rating, conductor size, and insulation (e.g., LSZH, UV-rated) match schedules; photograph sheath markings at 0.5 m legible length.
6	Inspect cable reels and runs for kinks, flat spots, or crush; reject if prior bend radius visibly exceeded; document with close-up photos and tag rejected lengths.
7	Measure conductor resistance end-to-end with micro-ohmmeter; compare to datasheet per 100 m adjusted for length; acceptance $\pm 5\%$ ; log readings for each core.
8	Check sheath integrity at all entries; fit grommets/bushings; no exposed copper; capture photo of each entry showing strain relief present.

Protected Routing & Separation	
9	Verify conduit/trunking fill $\leq 40\%$ cross-sectional area; calculate with cable OD; record calculation and photo of representative section and sizing label.
10	Confirm minimum bend radius $\geq 8\times$ cable OD or manufacturer value (whichever greater); measure with tape; photo including measurement reference.
11	Maintain separation from LV power cables $\geq 300$ mm or use metallic divider; verify at parallel and crossing points; capture photos at each transition.
12	Ensure UV/weather protection: use UV-rated conduit/trunking, sun shields, or paint; stainless/UV-stable fixings; photo of product markings and installed hardware.
13	Seal external penetrations with weatherproof/firestop systems per approved project specifications and authority requirements; record product, batch/lot number, and before/after photos.
14	Check support spacing: clips/brackets $\leq 1.2$ m vertical and $\leq 1.5$ m horizontal; no sagging; photo of representative spans with tape measure.
15	Verify enclosure and junction box ratings at façade are IP65 or higher; inspect gaskets, drains, and cable glands; photo of rating label and lid seal.

Terminations & Identification	
16	Crimp ferrules/lugs with ratcheting tool; perform pull test $\geq 50$ N on small control cores; log tool model and test results; photo of sample pulls.
17	Bond shields/earth with 360° gland clamping; verify continuity to earth $< 0.5 \Omega$ using low-ohm meter; record readings and gland locations.
18	Label cables both ends with heat-shrink printed IDs matching schedules; orientation readable; photo each end with panel/zone reference visible.
19	Tighten terminals to manufacturer torque using calibrated torque screwdriver; record torque setting and terminal row; photo of tool on terminal.
20	Install surge protection devices where specified; record model, location, and status LEDs; photo of SPD and adjacent wiring.

Testing & Documentation	
21	Continuity test each core loop from controller to actuator; record resistance values per core; attach instrument auto-save or screenshots.
22	Insulation resistance at 500 V DC (unless otherwise specified) $\geq 1$ M $\Omega$ between cores and to earth; hold 1 min; record values and ambient conditions.
23	Functional jog test under supervision: enable control and command limited movement; verify correct actuator response and stops; capture short video and event log.
24	Update as-built drawings with actual routes, IDs, and terminations; upload redlines; link QR code in panel to document set; photo of QR placement.
25	Collect digital sign-offs from installer, QA, and consultant; export checklist with readings as PDF/Excel; archive in project CDE with date/time stamp.

**Comments:**

Filled by:

Signature:

Introduction	How to use this checklist
<p>Inspect dynamic façade control cabling and protected routing to verify safe, reliable movement and durable signal integrity. This checklist focuses on façade actuator wiring, control cable routing, weatherproof conduits, and protected penetrations from equipment cabinets to moving façade elements such as louvers or shading panels. You will confirm cable type, UV resistance, enclosure IP ratings, support spacing, bend radius, and separation from power that can induce interference. The process also covers termination quality, earth bonding, surge protection, and complete verification testing—continuity, insulation resistance, and functional jogs—per approved project specifications and authority requirements. Outcomes include fewer service faults, mitigated moisture ingress, reduced noise coupling, and traceable documentation for commissioning closeout. Use it at pre-cover, post-routing, and pre-commissioning stages to capture evidence before concealment. Start the interactive checklist now—tick items, add comments with photos, and export PDF/Excel with a project QR code for sign-off and archiving.</p>	<ol style="list-style-type: none"> <li>1. Preparation: gather latest drawings, permits, and method statements; assemble calibrated multimeter and insulation tester; arrange safe access (MEWP/scaffold), LOTO devices, torque tools, labels, and camera-enabled device.</li> <li>2. Start interactive mode: open the checklist on your device, select project, zone, and lot; scan the panel QR code to auto-link documents and previous remarks.</li> <li>3. During inspection: tick items, enter measurements and torque values, attach photos/videos, and add comment threads for snags or RFIs with responsible party and due dates.</li> <li>4. Export: generate timestamped PDF/Excel with evidence and signatures; file the export in the project CDE and reference it in the ITP hold-point submission.</li> <li>5. Sign-Off: capture installer, QA, and consultant digital signatures; lock the record; verify QR authentication links back to the archived package.</li> </ol>