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Inspect Dynamic Façade Panels: Clearance & Interference

Inspect dynamic façade movable panels for travel clearance and interference with an interactive checklist that is commentable and can export as PDF/Excel securely.

Project:

Date:

Filled by:

Pre-Operation Setup

1	Verify panel type, travel direction, and designed envelope against approved shop drawings; mark the travel envelope on adjacent construction with a chalk line. Acceptance: markings match drawings within ± 5 mm. Evidence: photo of markings overlaid with drawing reference.
2	Clear the full travel path of tools, debris, temporary works, and packaging using a sweep and visual scan. Acceptance: path clear at least 100 mm beyond marked envelope. Evidence: wide-angle photos before and after.
3	Confirm safe access and lighting for full-length head track viewing; set fall protection where required. Acceptance: continuous line-of-sight to carriers along full span. Evidence: supervisor sign-off and site photos.

Track and Guideway Clearance

4	Measure head track-to-carrier wheel clearance using calibrated feeler gauges at 1 m intervals. Acceptance: constant clearance per approved specifications with variation ≤ 1 mm. Evidence: recorded readings and gauge photos at each station.
5	Check track straightness with a laser line or 3 m straightedge. Acceptance: deviation from straightness ≤ 2 mm over 3 m. Evidence: laser/straightedge photos and maximum deviation logged.
6	Inspect end stops and bumpers for correct installation and securement; cycle the panel gently into each stop. Acceptance: cushioned stop, no metal-to-metal impact. Evidence: video of approach and close-up of stop hardware.
7	Verify drainage/weep openings in track are unobstructed by sealant or debris; flush with 0.5 L water. Acceptance: free flow observed at intended outlets. Evidence: video of flush test and outlet photo.

Panel-to-Panel and Frame Gaps	
8	Measure panel-to-panel vertical edge gap at top, mid, and bottom using feeler gauges. Acceptance: uniform within ± 2 mm and not less than the designed minimum. Evidence: logged readings with location marks.
9	Measure head and sill clearances to frame using a steel rule or caliper at corners and midspan. Acceptance: continuous clearance with no pinch points along travel. Evidence: photos showing gauge placement and values.
10	Observe gasket/brush contact through full stroke at slow speed. Acceptance: continuous, even contact without folding, tearing, or drag noise. Evidence: video along entire travel and stills of any anomalies.
11	Check hangers, bolts, and brackets for protrusions into the marked envelope; verify torque marks intact. Acceptance: no hardware encroaches into travel path. Evidence: close-up photos of critical interfaces.

Actuation and Controls	
12	For manual systems, measure operating force with a digital force gauge at the handle through full stroke. Acceptance: peak force within design limit and consistent both directions. Evidence: force-time graph and peak value screenshot.
13	For motorized systems, run in service/low-speed mode; observe soft-start/soft-stop behavior. Acceptance: smooth acceleration/deceleration with no surging or hunting. Evidence: controller log export and video capture.
14	Verify limit switches/encoder positions so travel stops before hard limits by the specified safety margin. Acceptance: overrun allowance achieved per approved specifications. Evidence: recorded setpoints and controller screenshots.
15	Test emergency stop and manual override; initiate during mid-travel. Acceptance: panel halts within 1 s without contacting adjacent elements. Evidence: timestamped video and event log.

Safety and Obstructions	
16	Place a 5 mm feeler at critical interfaces (head, jambs, interlocks) and cycle slowly. Acceptance: feeler not pinched at any position. Evidence: photos with feeler visible at each location.
17	Perform obstruction sensing with a compliant 30 mm foam test block in the path. Acceptance: panel stops or reverses before applying damaging force. Evidence: video and photo of test block placement.
18	Review adjacent façade elements (sunshades, signage, lightning protection) for potential clashes using measured offsets or BIM overlay. Acceptance: minimum offset to moving panel maintained per specifications. Evidence: annotated photos or BIM screenshots.

Documentation and Sign-off	
19	Assign and affix a unique panel ID and QR label linking to this record. Acceptance: ID matches the register; QR resolves correctly. Evidence: photo of label and QR test screenshot.
20	Compile all readings, photos, and videos; generate a punch list for any rub marks, scratches, or noise events with precise chainage. Acceptance: actions assigned and tracked to closure. Evidence: exported PDF/Excel with status.
21	Obtain digital approvals from installer, façade engineer, and client representative. Acceptance: three signatures recorded with date/time. Evidence: signed digital form archived with QR authentication.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect dynamic façade movable panels for travel clearance and interference is a focused quality-control procedure for top-hung sliding façade systems. This checklist targets the panel travel path, operational clearance, and any binding or interference that could cause jamming, noise, seal damage, or premature wear. It addresses track alignment, guide engagement, panel-to-panel gaps, and actuation behavior so that panels run smoothly without contacting adjacent elements. By concentrating on measurable outcomes—uniform gaps, straightness, stop positions, and operating forces—teams can verify performance before turnover and document results for commissioning. The scope excludes structural load testing, weather-tightness certification, and aesthetic punch items; those are covered in separate inspections per approved project specifications and authority requirements. Use this interactive, field-ready tool to standardize methods, capture evidence, and close findings efficiently. Start the checklist on your device, tick each step as completed, add comments and photos, and export PDF/Excel with a secure QR link for traceable sign-off.	1. Preparation: Gather calibrated feeler gauges, steel rule, 3 m straightedge or laser, digital force gauge, cleaning tools, and safe access. Confirm approved drawings and specifications are available on your device. 2. Site readiness: Establish safe access and lighting, clear the travel zone, and set the panel in service/low-speed mode if motorized. Brief the team on roles and communication. 3. Using the Interactive Checklist: Start interactive mode, tick each step as performed, add time-stamped comments, and attach photos/videos showing the measurement tool and reading. 4. Export and share: On completion, generate a PDF/Excel export for the panel ID. The QR code links stakeholders to the live, commentable record for verification. 5. Sign-off and archive: Capture digital signatures from installer, façade engineer, and client. Lock the record, store in the project archive, and reference the QR on the physical label.