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Review façade interface with doors and entrance systems

Review façade interface with doors, revolving doors, and entrance systems using an interactive checklist that is commentable and can export as PDF/Excel.

Project:

Date:

Filled by:

Pre-Installation Verification

1	Confirm latest approved shop drawings and entrance interface details are on site; verify revisions against the RFI/submittal log. Acceptance: correct issue dates. Evidence: photos of title blocks and superintendent signature.
2	Measure rough opening width and height with a laser measurer; tolerance within ± 5 mm of shop drawings. Evidence: recorded readings and annotated photos showing tape/laser positions.
3	Check substrate plumb, level, and plane using a digital level and 2 m straightedge. Acceptance: plumb/level within 3 mm/m; flatness ≤ 3 mm over 2 m. Evidence: photos and level readings.
4	Inspect delivered doors, revolving door drums, frames, and hardware for damage and squareness. Acceptance: unmarred surfaces; frame squareness within 2 mm. Evidence: delivery dockets, lot numbers, and condition photos.

Anchorage and Structure

5	Verify anchor type, diameter, edge distance, and embedment with calipers and depth gauge. Acceptance per approved project specifications and authority requirements. Evidence: measurements, marked photos, and anchor schedule cross-check.
6	Torque-test mechanical anchors with a calibrated wrench after cure. Acceptance: achieved torque within manufacturer range. Evidence: torque log with wrench serial number and inspector initials.
7	Confirm threshold support is continuous, shimmed, and grouted where detailed. Acceptance: deflection under 1 kN point load $\leq L/600$. Evidence: load/deflection readings and straightedge photos.
8	Check reinforcement/backing plates at mullions and heads before closure. Acceptance: positions per drawings within ± 3 mm. Evidence: pre-closeup photos and an as-built sketch.

Air, Water, and Thermal Seals

9	Inspect continuity of air/vapour barrier tie-ins to frames. Method: visual and smoke-pencil. Acceptance: no discontinuities or flutter. Evidence: photos with marked extents and test notes.
10	Verify sill pan and end dams have positive slope $\geq 2\%$ and sealed laps ≥ 50 mm. Perform controlled hose test at 3 L/min for 15 min. Acceptance: zero interior leakage. Evidence: photos/video and test log.
11	Sealant joints: confirm backer rod (25–50% compression), primer use, and 2:1 bead profile. Field adhesion probe. Acceptance: cohesive failure. Evidence: sealant batch numbers, date stamps, and close-up photos.
12	Check thermal break continuity at frames and thresholds using infrared scanning after temperature differential establishes. Acceptance: no thermal bridge differing by >2 °C from adjacent frame. Evidence: saved thermographs.

Movement Joints and Tolerances

13	Measure perimeter movement joints with feeler gauges. Acceptance: continuous 12–20 mm gap per detail. Evidence: gauge readings and annotated photos.
14	Verify frame shims are spaced per detail and correctly compressed. Acceptance: shim stacks aligned; compression $\leq 25\%$. Evidence: close-up photos and installer confirmation.
15	Confirm door leaf-to-frame clearances at head and jambs using tapered gauges. Acceptance: 3–5 mm uniform gaps. Evidence: measurements and operational video.
16	Check revolving door drum and canopy concentricity with a laser plumb. Acceptance: vertical deviation ≤ 2 mm over 3 m. Evidence: readings and alignment photos.

Entrance Systems Integration

17	Align revolving and adjacent swing/automatic doors to the façade grid. Acceptance: horizontal offset ≤ 2 mm; face flush within 1 mm. Evidence: straightedge and laser photos.
18	Commission automatic operators and safety sensors per manufacturer. Acceptance per approved project specifications and authority requirements. Evidence: commissioning checklist, parameter screenshots, and test video.
19	Verify accessibility clear opening ≥ 900 mm and threshold upstand ≤ 5 mm with a steel rule, or per approved project specifications and authority requirements. Evidence: measurements and photos.
20	Integrate access control: test card readers, maglocks, and door contacts. Acceptance: correct fail-safe/fail-secure behavior as specified. Evidence: event log screenshots and wiring photos.

Life Safety, Security, and Accessibility

21	Test emergency stop and breakout function on the revolving door. Acceptance per approved project specifications and authority requirements. Evidence: test video and supervisor sign-off.
22	Confirm firestopping at façade/entrance penetrations is continuous and tagged. Acceptance: full-depth mineral wool and sealant continuity. Evidence: photos and installer certification.
23	Measure vestibule pressure differential with a manometer during operation. Acceptance: 5–15 Pa positive as designed. Evidence: readings, time stamps, and commissioning sheet.
24	Check signage, lighting, and tactile indicators at entrances. Acceptance: locations and mounting heights within ± 5 mm of drawings. Evidence: photos and as-built markups.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Review façade interface with doors, revolving doors, and entrance systems ensures every entrance-to-façade transition is aligned, sealed, anchored, and commissioned. This checklist focuses on the building envelope around entrances, including storefront and curtain wall interfaces, revolving door assemblies, and automated door systems. It addresses key risks such as water ingress at sills, air leakage at frames, thermal bridging at thresholds, structural misalignment, and incomplete tie-ins to air/vapour barriers. You will verify tolerances, movement joints, anchorage, drainage, access control, and accessibility clearances while capturing photographic and measured evidence. The scope excludes non-entrance façade elements (e.g., windows above) and deep MEP design; it concentrates on the physical interface, operation, and documentation at ground-floor entrances and vestibules. The outcome is durable, safe, and compliant entrances that resist weather, manage pressure, and integrate with security and automation. Start in interactive mode to tick items, add comments, and export to PDF/Excel with a QR for authenticated sign-off.	1. Preparation: gather tools (laser measurer, digital level, torque wrench, smoke pencil, infrared camera, manometer), approved drawings/details, and manufacturer commissioning guides. Coordinate water-test timing, ensure safe drainage, and brief the team on evidence capture (photos, readings, batch numbers). Wear required PPE. 2. Using the Interactive Checklist: open interactive mode, filter by group (e.g., Air/Water Seals), and work sequentially. Tick each item as completed, attach photos and annotated sketches, and record measured values directly in the fields. 3. Collaborate and comment: tag subcontractors or consultants in comments to resolve issues, log RFIs, and note deviations alongside the relevant step for transparent traceability. 4. Export and share: generate PDF/Excel exports including photos, timestamps, and signatures for distribution to stakeholders and inclusion in O&M; manuals or commissioning binders. 5. Sign-Off: capture digital signatures from the contractor, consultant, and owner. The export embeds a QR code for authenticity; archive the signed package in your project CDE.