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Inspect Curtain Wall Interface with Steel Support Framing

Inspect curtain wall interface with steel support framing using an interactive checklist. Commentable steps capture evidence and tolerances, then export as PDF/Excel for QR-authenticated sign-off.

Project:
Date:
Filled by:

Pre-Installation & Submittals	
1	Verify latest approved shop drawings, connection details, and ITP are on device. Method: compare title block revision/date to site set. Acceptance: field set matches latest approval. Evidence: photo of title block, RFI cross-references, supervisor initials.
2	Confirm survey control: set grid lines and datums on steel. Method: total station/laser. Acceptance: steel reference points within ±5 mm of control. Evidence: point log, screenshot of layout, surveyor sign-off.
3	Review steel QA closeouts for bracket tabs/plates. Method: check weld/NDT reports and punchlist clearance. Acceptance: reports signed per approved project specifications. Evidence: upload reports, weld map, inspector signature.
4	Hold interface coordination with facade, firestop, and envelope trades. Method: pre-task meeting minutes. Acceptance: roles, sequence, and hold-points defined. Evidence: signed attendance sheet and action list.
5	Verify delivered brackets/anchors/gaskets match approved submittals. Method: check labels, part numbers, and manufacturer datasheets. Acceptance: exact type/finish/grade as approved. Evidence: photos of packaging labels, lot numbers recorded.

Structural Interface & Anchors	
6	Confirm bracket orientation and hole patterns per detail. Method: measure with tape/calipers. Acceptance: hole spacing/edge distances within ±2 mm of drawing. Evidence: measurement photo and marked bracket ID.
7	Check anchor bolt diameter, grade, and length. Method: calipers and head stamp verification. Acceptance: matches submittal; thread engagement ≥1×diameter. Evidence: photo of stamp, caliper reading, mill cert uploaded.
8	Torque-test representative bolts. Method: calibrated torque wrench. Acceptance: manufacturer’s specified torque (record value and variance). Evidence: torque log for ≥10% sample per connection type, wrench calibration certificate.
9	Install isolation/thermal break pads at steel–aluminium contact points. Method: visual and feeler gauge. Acceptance: no metal-to-metal contact; full pad coverage. Evidence: close-up photos, product label, batch/lot number.
10	Verify slip/movement slots clear of obstructions. Method: measure slot length and available travel. Acceptance: movement capacity per design (record mm and direction). Evidence: photo with ruler indicating free movement.

Tolerances & Alignment	
11	Check steel support face alignment to facade datum. Method: rotary laser/straightedge. Acceptance: deviation ≤±3 mm over 3 m. Evidence: laser reading photo and recorded offsets at each bracket line.
12	Verify bracket plumb and level. Method: digital level (0.2° accuracy). Acceptance: ≤1 mm per 1 m in both axes. Evidence: level display photo and bay-by-bay log.
13	Confirm stand-off distance from steel face to mullion fixing plane. Method: depth gauge/tape. Acceptance: within ±2 mm of shop drawing. Evidence: measurement photo at each bracket pair.
14	Verify mullion centerline to building grid. Method: total station. Acceptance: horizontal offset within ±5 mm of grid. Evidence: coordinate printout and annotated elevation.
15	Check cumulative stack-up over multi-storey run. Method: survey of top/bottom references. Acceptance: accumulated deviation within design allowance (record mm). Evidence: summary table and plotted trend.

Air/Water/Thermal Continuity	
16	Inspect air/vapor barrier termination at steel interface. Method: visual, adhesion probe, smoke pencil. Acceptance: continuous, primed, fully bonded, compatible sealant. Evidence: photos of laps/terminations and primer lot.
17	Check flashing and end dams at slab edges. Method: tape and level. Acceptance: laps ≥100 mm; positive slope to exterior; fasteners sealed. Evidence: close-ups showing lap dimension and slope.
18	Confirm drainage paths and weeps unobstructed. Method: visual probe and water trickle test. Acceptance: clear flow; weep spacing per submittal (record mm/centres). Evidence: test video/photo and spacing log.
19	Verify insulation continuity and thermal break coverage around anchors. Method: borescope/visual before closure. Acceptance: no gaps >5 mm; full contact. Evidence: photos and marked locations on elevation.
20	Perform sealant/primer compatibility field check. Method: small mock-up bead and peel after cure. Acceptance: cohesive failure in sealant; no substrate attack. Evidence: photo sequence and cure time recorded.

Fire & Acoustic Compartmentation	
21	Verify perimeter fire barrier system identification. Method: compare to approved tested assembly details. Acceptance: correct system referenced and available materials on site. Evidence: photo of system label and detail reference.
22	Measure mineral wool/safing fit and compression at slab edge. Method: ruler/feeler gauge. Acceptance: thickness per tested system; uniform compression (record mm). Evidence: installation photos and measurement log.
23	Inspect firestop sealant depth and bond. Method: depth gauge/inspection probe. Acceptance: depth and profile per tested detail; full adhesion. Evidence: close-ups, bead depth readings, batch/expiry numbers.
24	Check acoustic seal continuity at perimeter and penetrations. Method: visual and flashlight backlighting. Acceptance: no voids, pinholes, or breaks. Evidence: photos of continuous runs and intersections.

Sealants, Drainage & Corrosion Protection	
25	Conduct field adhesion test for perimeter silicone. Method: manufacturer-recommended hand-pull. Acceptance: cohesive failure; adhesion intact. Evidence: test photos, temperature/relative humidity noted.
26	Clean substrates prior to sealing/assembly. Method: solvent wipe and lint-free cloth. Acceptance: wipe shows no visible residue. Evidence: photo of clean area and solvent product label.
27	Verify corrosion protection on steel interfaces. Method: dry film thickness gauge. Acceptance: DFT per approved project specifications (record µm). Evidence: DFT readings and coating batch certificate.
28	Install isolation washers/bushings for dissimilar metals. Method: visual confirmation during assembly. Acceptance: all stainless/aluminium interfaces isolated. Evidence: close-up photos at each fastener group.
29	Document as-built interface at every bay. Method: geotagged photos with elevation grid reference. Acceptance: minimum one overview and two close-ups per bay. Evidence: uploaded images with location tags.
30	Complete sign-off and punchlist closure for interface. Method: digital checklist review. Acceptance: all items ticked, comments resolved, and approvals recorded. Evidence: exported PDF/Excel with QR authentication.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect curtain wall interface with steel support framing is a focused field guide for verifying the critical junction between facade elements and their steel backup. This checklist targets curtain wall-to-steel connections, facade interfaces, and bracketed support systems where anchors, slip movement, and isolation pads govern performance. It concentrates on pre-install verification, structural fixings, plumb/level and stand-off control, continuity of air/vapor/water/thermal barriers, and fire/acoustic perimeter treatments. By catching issues early—such as misaligned brackets, missing thermal breaks, incompatible sealants, or blocked drainage—we reduce rework, prevent water ingress, and protect structural, thermal, and life-safety outcomes. The scope ends at the curtain wall–steel interface; it does not cover glazing installation, glass QA, or interior finishes beyond sealant and firestop tie-ins. Use this checklist to document torque values, thickness measurements, batch numbers, and photo evidence, ensuring traceability per approved project specifications and authority requirements. Start interactive mode to tick items, leave comments, and export your records to PDF/Excel with a secure QR.	1. Preparation: gather approved shop drawings, ITP, and test data; bring a calibrated torque wrench, total station/laser, digital level, calipers, depth gauge, DFT gauge, borescope, smoke pencil, and PPE. 2. Set up locations: load elevations/bay IDs, align to project grid, and define hold points for structural fixings, envelope tie-ins, and fire/acoustic works. 3. Start interactive mode: tick items as you inspect, assign responsibilities, due dates, and tag exact locations for each finding. 4. Capture evidence: upload geotagged photos, record torque and survey readings, attach batch/lot numbers, and link relevant RFIs or submittals. 5. Resolve issues: create corrective actions, notify trade leads, re-inspect closed items, and maintain a clear audit trail within comments. 6. Export and share: generate an export as PDF/Excel, including photos, readings, and status, with QR authentication embedded for on-site verification. 7. Sign-off: obtain digital signatures from installer, GC, and consultant; distribute to stakeholders and archive for handover and authority review.