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Review Façade Interface Drawings Before IFC: Coordination Gaps

Review façade interface drawings for coordination gaps before IFC release using an interactive, commentable checklist that exports as PDF/Excel, enabling faster approvals and fewer late-stage RFIs.

Project:
Date:
Filled by:

Document Control and Scope	
1	Verify each façade interface drawing shows latest pre-IFC revision in the CDE; method: check transmittal log and title block; acceptance: current status with no superseded references; evidence: CDE screenshot and transmittal ID.
2	Confirm scope split at every interface (façade vs base-build) using the responsibility matrix; acceptance: no grey areas or duplicated tasks; evidence: redlined PDF and matrix extract signed by leads.
3	Cross-check callouts and detail references align with architectural, structural, and MEP sheets; method: reference index audit; acceptance: matching sheet/detail numbers; evidence: cross-reference checklist and annotated links.
4	Verify all references cite current project specifications and authority requirements; method: compare against approved registers; acceptance: no obsolete standards; evidence: spec register link and note.

Geometry, Grids, and Datums	
5	Align façade setting-out to building grids and primary benchmarks; method: CAD/BIM overlay; tolerance: ±5 mm horizontally at grid intersections; evidence: overlay screenshot with measured offsets.
6	Confirm FFL-to-soffit and parapet heights support system modules; method: dimension audit; tolerance: ±10 mm vertical between datum points; evidence: marked dimension take-off with check stamps.
7	Compare slab-edge coordinates to latest as-built survey or point cloud; method: model overlay; acceptance: deviation ≤15 mm with recovery strategy noted; evidence: clash/deviation report with snapshots.
8	Validate curved or inclined façade rationalisation and panelisation; method: control-points review; acceptance: manufacturable radii ≥3 m or supplier-confirmed; evidence: supplier email and marked geometry check.

Structural and Fixings Interfaces	
9	Confirm embed plates/anchors locations, types, and loads match structural drawings; method: take-off versus schedules; tolerance: positional ±10 mm; evidence: coordinated fixings schedule signed by structural lead.
10	Check edge distances and concrete cover for anchors; method: detail measurement and calc; acceptance: minimum cover per approved project specifications; evidence: calculation sheet and redlined section.
11	Verify bracket adjustability accommodates slab-edge and survey tolerances; method: slot length and shim review; acceptance: adjustability ≥ ±15 mm; evidence: bracket detail markup with range noted.
12	Review continuity of thermal break pads at fixings; method: section-by-section scan; acceptance: continuous support, compression ≤25% under design load; evidence: annotated sections and datasheet.

Envelope Performance and Tolerances	
13	Confirm air and water barrier transitions at interfaces; method: sequence diagram; acceptance: continuous, shingle-lapped ≥100 mm with compatible materials; evidence: annotated sequence sketch.
14	Verify fire-stopping at slab edges and penetrations; method: reviewed tested/assessed systems per approved project specifications; acceptance: system matches gap width and substrates; evidence: system ID and detail cloud.
15	Check acoustic breaks at mullion-to-structure interfaces; method: material and thickness review; acceptance: STC/Rw values meet specification; evidence: product datasheet and marked detail.
16	Validate differential movement joints and seismic allowances; method: movement calculation; acceptance: serviceability clearance ±15 mm or per analysis; evidence: calculation snapshot and schedule entry.
17	Confirm panel joint widths and thermal expansion provisions; method: detail check; tolerance: 8–12 mm typical unless specified; evidence: joint schedule and dimensioned markup.
18	Approve fabrication and installation tolerance matrix; method: consolidate supplier and site tolerances; acceptance: plumbness ≤3 mm per 1 m; evidence: QA tolerance matrix signed.

MEP, Access, and Movement	
19	Coordinate penetrations for louvres, vents, and lighting; method: clash detection; acceptance: clearance ≥25 mm all around; evidence: Navisworks screenshot and penetration register entry.
20	Verify drainage paths, cavity trays, and weep locations; method: section review and water path trace; acceptance: weeps at ≤1.5 m centres; evidence: redlined details with spacing noted.
21	Confirm BMU and maintenance access at parapets, tracks, and anchors; method: clearance audit; acceptance: continuous 600 mm minimum walkway; evidence: plan markup and access note.
22	Check window opening tolerances against interior finishes; method: overlay jamb/return details; acceptance: shim allowance 5–10 mm continuous; evidence: coordinated interface detail.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Review façade interface drawings for coordination gaps before IFC release ensures that façade details align with structure, architecture, and MEP before drawings are issued for construction. This focused façade coordination review targets interface conditions—slab edges, embeds, air and water barriers, fire-stopping, movement joints, and services penetrations. By interrogating drawings, BIM overlays, and the responsibility matrix, teams surface inconsistencies, missing data, or impractical tolerances that can trigger RFIs and change orders later. The checklist concentrates on pre-IFC coordination, not design development or procurement engineering, and uses accepted methods like CDE transmittals, clash detection, point-cloud comparisons, and tolerance matrices. Outcomes include clarified scopes, quantified adjustments, and documented evidence for issue clearance. Use this interactive tool to assign actions, log comments, attach overlays or calculations, and capture approvals. Start ticking items, comment on gaps, and export the review trail as PDF/Excel with a secure QR for authentication and sharing with stakeholders.	1. Preparation: Gather latest pre-IFC façade, architectural, structural, and MEP drawings; current specifications; responsibility matrix; as-built survey/point cloud; BIM/CAD overlays; and calculation templates. Confirm team roles (design manager, façade consultant, structural, MEP) and set up a dedicated review folder in the CDE. 2. Start interactive mode: Open the checklist, assign items to disciplines, set due dates, and link source drawings. Use comments to describe issues and @mention owners. Attach markups or model views to each item for clarity. 3. Capture evidence: Upload screenshots of overlays, take-offs, calculation snippets, datasheets, and meeting notes. Tag building levels and gridlines. Reference related RFIs or design decisions to maintain traceability to the CDE. 4. Resolve and verify: Track responses, update decisions, and confirm acceptance criteria and tolerances are met. Change item status to ‘cleared’ only after evidence is reviewed by the responsible lead. 5. Sign-Off: Apply digital signatures from discipline leads, export the checklist and attachments to PDF/Excel, and archive in the CDE. Distribute the QR-authenticated package to stakeholders for IFC release.