



Review façade dead-load and live-load support strategy

Review façade dead-load and live-load support strategy with an interactive checklist. Commentable workflow and export as PDF/Excel help teams coordinate supports, anchors, and tolerances.

Project:

Date:

Filled by:

Design Basis and Load Cases

1	Confirm the governing load cases for self-weight and imposed maintenance loads per approved project specifications and authority requirements.
2	Recalculate typical unit reactions (kN) using current mass properties; cross-check model weights with supplier data within $\pm 5\%$; attach signed calculation sheet.
3	Document load combinations used for ultimate and serviceability checks; verify that creep, shrinkage, and construction stages affecting supports are included; upload combination summary.
4	Produce a load-path diagram from panel to primary structure showing all intermediate supports; ensure a single, unambiguous gravity path; attach annotated diagram.

Primary Support Elements

5	Check shelf angles, transoms, and brackets utilization ≤ 1.0 under factored loads; method: section capacity verification; evidence: calculation output and mark-up.
6	Verify bracket spacing and eccentricity against drawings and supplier guidance; tolerance: spacing within ± 10 mm; upload dimensioned GA extract with check marks.
7	Confirm bearing pad or shim stack compressive stress $\leq$ manufacturer allowable; include pad hardness and thickness; evidence: datasheet and calc snippet.
8	Check thermal break plates for compressive capacity and long-term creep under dead-load; acceptance: predicted creep $\leq$ serviceability allowance; attach supplier report.

Anchors and Fasteners

9	Validate anchor type, diameter, and embedment meet or exceed manufacturer minimums for base material strength; evidence: marked detail and manufacturer table.
10	Confirm minimum edge distances and spacings for anchors are respected; tolerance: no dimension below catalog minimum; attach dimensioned detail snapshot.
11	Plan proof/pull-out testing where required; acceptance: test capacity $\geq 1.5 \times$ design tension or shear; evidence: approved test plan and lot traceability.
12	Specify torque/preload values and tools (calibrated torque wrench) for bolted fixings; evidence: torque schedule with tool calibration certificates.
13	Confirm corrosion protection (e.g., stainless grade, galvanizing thickness) suitable for exposure category; evidence: materials list and environmental classification.

Movements, Deflection, and Tolerances	
14	Verify vertical dead-load transfer points are distinct from lateral restraints to avoid load lock; evidence: detail mark-up highlighting fixed vs sliding points.
15	Check interstorey drift accommodation: slot lengths/clearances $\geq$ calculated drift + installation tolerance; attach drift calcs and annotated connection detail.
16	Confirm support member deflections under dead/live loads within serviceability limits (e.g., L/deflection criteria per project); evidence: deflection table.
17	Ensure thermal movement (ΔT) is accommodated at interfaces without binding; method: expansion estimate; evidence: clearance schedule and temperature basis.
18	Define allowable shim stack height and adjustability ranges for plumb/alignment; acceptance: within supplier limits; evidence: installation note and sketch.

Interfaces and Coordination Data	
19	Run clash detection with structure, fire-stopping, and MEP; resolve conflicts at anchors and angles; evidence: clash report with closed issues list.
20	Issue embed/insert coordinates with setting-out tolerances and datum references; tolerance: coordinate accuracy within ± 5 mm; evidence: BIM extract.
21	Confirm drainage/weep paths remain unobstructed by brackets or anchors; evidence: section detail highlighting clear gaps and fall directions.
22	Define temporary support/handling strategy for panel installation so live loads are not carried by unintended fixings; evidence: method statement excerpt.

Documentation and Approvals	
23	Compile a signed calculation package and bracket/anchor schedules with tag references; evidence: PDF with engineer signature and revision control.
24	Record approvals per approved project specifications and authority requirements; attach RFIs, deviations, and material submittal acceptance letters.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Review façade dead-load and live-load support strategy before coordination is the critical gateway to confirm how gravity and imposed loads transfer safely from cladding and curtain wall systems into the primary structure. This pre-coordination review aligns structural assumptions, façade support design, and anchor strategy, while validating serviceability limits for deflection, drift, and thermal movement. It focuses on support brackets, shelf angles, anchors, embeds, and movement joints rather than installation sequencing or final inspection. By verifying load combinations, capacities, fixings, corrosion performance, and clearances, teams avoid overstress, cracked finishes, water ingress, misaligned panels, and costly redesigns later. Outcomes include a clear load path, accepted tolerances, clash-free details, and a signed calculation package ready for multidisciplinary coordination. Use this interactive checklist to tick items, add accountable comments, upload photos of mark-ups or model extracts, and export consolidated evidence to PDF/Excel. Finish by generating a QR-secured record for meeting packs and approvals.	1. Preparation: Gather latest GA/details, structural models, supplier data, and exposure category. Have a calculator, BIM viewer, torque schedules, and test plans ready. Confirm applicable project specifications and authority requirements. 2. Open the interactive checklist and select project, elevation, and revision. Assign responsible engineers for each group: design basis, supports, anchors, movements, interfaces, and approvals. 3. Work through items sequentially. Tick completed checks, attach calculation pages, redlined details, or model snapshots. Use comments to capture assumptions and cross-discipline queries with @mentions. 4. Record measurements and numeric results directly in fields (kN, mm, MPa). Link datasheets and calibration certificates for anchors, torque tools, and materials. 5. Run a coordination pass: export a draft PDF/Excel, circulate to stakeholders, collect comments, and resolve clashes or deviations. Re-import feedback into the checklist thread. 6. Finalization: Mark outstanding RFIs closed, upload approvals, and ensure each item has evidence. Generate the QR-secured export for meeting packs and model coordination. 7. Sign-Off: Capture digital signatures from façade, structural, and contractor leads. Archive the checklist and export in the project document management system.