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Review façade bracket design and adjustment allowances before issue

Review façade bracket design and adjustment allowances before issue using an interactive checklist that is commentable and can export as PDF/Excel, verifying loads, fixings, and tolerances before release.

Project:	
Date:	
Filled by:	

Design Basis and Loads	
1	Confirm applicable load cases (dead, maintenance, wind, temperature) align with approved project specifications and authority requirements; method: review design brief and wind study; acceptance: documented loads signed by responsible engineer; evidence: signed load summary in calc pack.
2	Extract maximum panel reactions and eccentricities per elevation; method: load take-off worksheet from 3D model; acceptance: reactions and lever arms traced and bounded; evidence: spreadsheet snapshot with checker initials and date.
3	Verify bracket material grade and corrosion protection suit environment; method: spec cross-check and datasheet review; acceptance: coating thickness ≥ 85 µm or stainless grade per approved project specifications; evidence: highlighted datasheet and material schedule reference.
4	Confirm thermal isolator compressive capacity vs reaction; method: manufacturer datasheet and bearing calc; acceptance: capacity ≥ 1.5× service reaction; evidence: calc snippet with isolator model and utilization printed.
5	Account for creep, temperature, and interstorey movement in bracket slots; method: movement calculation; acceptance: slot length ≥ predicted movement + 10 mm reserve; evidence: calc page cross-referenced on detail.

Bracket Geometry and Capacity	
6	Check bracket arm moment and shear capacity at worst-case eccentricity; method: structural calculation or section verification; acceptance: utilization ≤ 0.90; evidence: signed calc sheet with input/output summary.
7	Verify local bearing pressures on rails and isolators; method: contact pressure calc; acceptance: ≤ manufacturer allowable; evidence: calculation page and highlighted allowable from datasheet.
8	Limit elastic deflection at fixing interface under service wind; method: deflection calculation; acceptance: ≤ 2 mm; evidence: calc excerpt and note on drawing.
9	Confirm minimum plate thicknesses and weld sizes meet design; method: detail check against WPS; acceptance: weld throat and lengths recorded on drawings; evidence: WPS reference number and checker initials.
10	Provide galvanic isolation for dissimilar metals; method: materials schedule and detail markup; acceptance: continuous non-conductive separator specified; evidence: detail cloud and note in bill of materials.

Fixings and Substrate	
11	Select anchors suitable for substrate (concrete/steel/masonry) per approved project specifications; method: manufacturer design software; acceptance: allowable ≥ demand with ≥ 20% margin; evidence: software report PDF with project ID.
12	Check edge distances, spacing, embedment, and rebar/plate clashes; method: 3D overlay with structural model; acceptance: edge distance ≥ manufacturer minimum + 5 mm; evidence: clash report and marked plan.
13	Verify anchor pull-out, shear, and combined utilization at worst eccentricity; method: anchor calc; acceptance: utilization ≤ 0.85; evidence: signed calc page with load combinations.
14	Define installation torque and setting tools for each anchor size; method: torque table compilation; acceptance: torque values and tool model listed on drawings; evidence: torque table embedded with revision tag.

Adjustment Allowances and Buildability	
15	Set vertical adjustment slot range based on survey; method: tolerance stack-up; acceptance: ±20 mm minimum with ≥ 10 mm reserve beyond measured deviation; evidence: stack-up sheet attached.
16	Define in/out shimming range using non-compressible shims; method: detail and BOM; acceptance: 0–10 mm in 1–5 mm increments, labelled per bracket ID; evidence: BOM export and detail note.
17	Provide horizontal adjustment without violating edge distances; method: CAD check; acceptance: ±15 mm with minimum bolt-to-edge maintained per manufacturer; evidence: marked section and dimensional check print.
18	Confirm tool access and sealant reach around brackets; method: mockup review; acceptance: ≥ 100 mm wrench swing and unobstructed sealant path; evidence: annotated photos from mockup.

Documentation and Approval	
19	Assign unique bracket IDs with elevation and coordinates; method: BIM schedule; acceptance: IDs consistent across model, GA, and detail sheets; evidence: schedule export with checker sign-off.
20	Place key dimensions, slot lengths, and torque notes on drawings; method: drawing markup review; acceptance: no critical dimension missing; evidence: checker initials in title block.
21	Compile calc pack, anchor reports, datasheets, and mockup photos; method: transmittal preparation; acceptance: complete document list with references; evidence: transmittal ID and index.
22	Obtain pre-issue approvals from façade lead, structural checker, and contractor; method: digital signatures; acceptance: three signatures and date; evidence: signed approval sheet attached.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Review façade bracket design and adjustment allowances before issue is a focused pre-issue quality step for façade engineers, detailers, and coordinators. This checklist concentrates on facade support brackets, fixing layouts, and tolerance allowances that ensure panels install accurately and safely. You will verify design loads, bracket geometry, substrate anchors, and thermal isolators against the approved project specifications and authority requirements. It also confirms practical bracket adjustability, shimming ranges, slot lengths, and access for tools and sealing so installation crews can align units without drilling new holes or compromising edge distances. By addressing corrosion protection, galvanic isolation, and interface continuity with air/water barriers and firestops, you reduce rework, avoid site delays, and improve handover documentation. Use this interactive page to tick off each requirement, attach calculations, mark up details, capture mockup photos, and assign actions in comments. When complete, export to PDF/Excel with a secure QR for audit and site verification.	1. Preparation: gather drawings, structural model, latest survey, project specifications, manufacturer datasheets, calculation packs, and mockup photos. Install anchor design software and open a BIM/CAD viewer for overlays. 2. Open the checklist, select the project and elevation, then start interactive mode. Confirm the revision aligns with the latest design brief and transmittal. 3. Work through items sequentially. Tick completed checks, attach calculation excerpts, software reports, and marked-up details as evidence for each requirement. 4. Use comments to raise queries, tag responsible parties, and set due dates. Convert unresolved comments into RFIs where needed and link references. 5. Export progress or final output as PDF/Excel with a secure QR code. Share the export with fabrication, site teams, and approvers. 6. Sign-Off: obtain digital signatures from the façade lead, structural checker, and contractor representative. Archive the signed export and evidence pack in the project CDE.