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Review façade shading device design: projection & drainage

Review façade shading device design for projection, drainage, and cleaning access with an interactive checklist—commentable—and export as PDF/Excel for approvals.

Project:

Date:

Filled by:

Projection and Geometry

1	Verify scheduled projection depth against solar analysis at key dates; measure on GA/sections with BIM dimension tools; acceptance: depth within ± 5 mm of schedule; evidence: upload marked-up sheets and takeoff report.
2	Check clearance to operable windows and doors; simulate swing/slide paths in BIM; acceptance: minimum 25 mm clear at full travel; evidence: clash snapshot and annotated section.
3	Confirm louver pitch and alignment across bays; use array dimensioning over a 3 m run; acceptance: pitch variation $\leq \pm 3$ mm and alignment within ± 2 mm; evidence: dimensioned screenshot.
4	Run tolerance stack-up for brackets, stand-offs, and substrate; spreadsheet or BIM parameters; acceptance: net projection within ± 10 mm of intent; evidence: uploaded calculation sheet with reviewer initials.

Drainage and Water Management

5	Provide falls on horizontal shading surfaces away from glazing; annotate gradients on sections; acceptance: slope $\geq 1:80$ continuous to outlet; evidence: marked-up details with slope arrows.
6	Detail drip edges/grooves to shed rainwater clear of façades; check underside of leading edges; acceptance: 3×3 mm groove located 10–15 mm from edge; evidence: enlarged detail with dimensions.
7	Size gutters/outlets to design rainfall; perform calculation per approved project specifications; acceptance: capacity $\geq$ peak flow with 20% contingency; evidence: calc sheet and outlet schedule.
8	Define overflow paths that bypass glazing and finishes; review sections and elevations; acceptance: discharge point throws ≥ 50 mm beyond outermost glazing plane; evidence: annotated sections and note.

Cleaning and Access Provision	
9	Validate manual cleaning reach envelopes; prepare reach diagrams from safe positions; acceptance: all surfaces within 600 mm from standing or cradle positions; evidence: plan/section overlays.
10	Confirm safe standing areas and approach routes for maintenance; review plans; acceptance: continuous clear width $\geq$ 600 mm without trip hazards; evidence: highlighted plans and risk notes.
11	Schedule anchor points/tie-offs compatible with BMU or rope access; check load ratings; acceptance: anchors certified per approved project specifications; evidence: manufacturer data, layout, and certification IDs.
12	Specify hinge-out or removable panels where rear faces need cleaning; hardware review; acceptance: panels open $\geq$ 90° with stays and positive locks; evidence: product submittal and annotated detail.

Materials and Fixings	
13	Select corrosion-resistant materials and finishes; verify grades/coatings; acceptance: substrate and fixings suitable for site exposure, e.g., powder coat $\geq$ 60 μ m; evidence: datasheets and finish schedule.
14	Isolate dissimilar metals to prevent galvanic corrosion; review connection details; acceptance: continuous non-conductive isolator at each interface; evidence: detail markup and material callouts.
15	Ensure fixing recesses permit tool access and water egress; section review; acceptance: $\geq$ 5 mm clearance around heads and open drain path; evidence: annotated section and note.
16	Provide gaskets/weep provisions that vent cavities; detail review; acceptance: weep slots $\geq$ 6 mm diameter at $\leq$ 1 m centres; evidence: detail callouts and photo of mock-up.

Coordination and Documentation	
17	Coordinate shading arrays with BMU cradle paths and rope drops; run clash detection; acceptance: zero interference in any operating position; evidence: clash report and overlay.
18	Issue a cleaning and maintenance method statement; include access equipment and PPE; acceptance: step-by-step sequence and isolations defined; evidence: uploaded draft O&M; section.
19	Define mock-up testing for drainage and operability; plan witness criteria; acceptance: no backflow to façade and smooth operation; evidence: test plan and sign-off sheet.
20	Publish setting-out references and tolerance matrix; list gridlines and control dimensions; acceptance: tolerances aligned with fabrication capability; evidence: GA sheet numbers noted.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Review façade shading device design for projection, drainage, and cleaning access ensures sunshades, louvers, and overhangs are buildable, safe, and maintainable. This focused design review targets projection depth, external louver arrays, rainwater management, and safe maintenance access, avoiding rework, staining, and service disruptions. You will cross-check GA drawings, sections, and details; verify falls, drip edges, outlets, and overflow paths; and confirm cleaning access via BMU, rope access, or hinge-out components. The outcome is a coordinated, documented package ready for procurement and fabrication, with tolerances, materials, and responsibilities clearly recorded per approved project specifications and authority requirements. Use this checklist to capture evidence—marked-up drawings, BIM screenshots, calculations, and product data—so decisions are traceable and auditable. Start interactive mode to assign actions, tick completions, add comments, and export your review to PDF/Excel via a QR-secured link.	1. Preparation: gather GA/section details, shading analysis, rainfall data, product datasheets, and O&M; templates; set up BIM access, a scale, laser measure, and PPE for any verification at mock-ups. 2. Start interactive mode: create a review session, choose the façade package, assign reviewers, and enable tick and comment features for each checklist item. 3. Capture evidence: upload marked-up drawings, BIM screenshots, calculations, and product data; link sheet numbers and locations; add photos of mock-ups or prototypes. 4. Collaborate and resolve: @mention responsible parties, set due dates, track responses, and record decisions; maintain version control for revisions. 5. Export and share: generate an export as PDF/Excel with embedded hyperlinks; share via a QR-secured link for quick on-site access. 6. Sign-off: obtain digital signatures from the design lead, façade engineer, and contractor; record dates, roles, and approvals per project procedures. 7. Archive: store the signed package in the common data environment; lock records and confirm retention requirements.