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Inspect GRC or GFRC Panel Anchors & Support Framing

Inspect GRC or GFRC panel anchors and support framing with an interactive checklist, fully commentable, and easy to export as PDF/Excel for traceable closeout.

Project:

Date:

Filled by:

Pre-Inspection and Documents

1	Verify latest approved shop drawings, structural calculations, and fixing schedules against actual gridlines and levels using a marked-up set; acceptance: current revisions only; evidence: photos of revision stamps and a signed field verification sheet.
2	Confirm material certificates for anchors, bolts, brackets, and coatings; method: collect and review MTRs and batch labels; acceptance: grades and coatings per approved submittals; evidence: upload certificates and batch photos.
3	Check access and edge protection for inspection points; method: review scaffold/MEWP tags; acceptance: in-date tags and rescue plan available; evidence: tag photos and access permit.
4	Verify inspection and testing plan (ITP) hold points for anchors and framing; method: compare ITP to area; acceptance: signed ITP including pull-out test frequency; evidence: ITP excerpt with inspector initials.

Subframe and Brackets

5	Survey embed plates or primary structure locations and elevations; method: total station; tolerance: ± 5 mm to grid/level; evidence: as-built points plot and station report.
6	Confirm bracket type, size, and stand-off vs. schedule; method: tape/caliper and part stamp check; acceptance: matches schedule and stand-off range; evidence: close-up photo with measurement.
7	Check bracket plumbness and perpendicularity; method: digital level and square; tolerance: ≤ 2 mm per 1 m; evidence: instrument readings and bracket ID tag photo.
8	Verify isolation pads/shims material and bearing; method: feeler gauge; acceptance: correct material and $\geq 80\%$ contact area; evidence: macro photo showing pad edges and gauge.

Anchors and Fasteners

9	Confirm anchor type and embedment depth; method: manufacturer depth gauge/caliper and drilling logs; acceptance: $\geq$ specified embedment and edge distance; evidence: depth gauge photo and lot number.
10	Verify hole cleanliness for post-installed anchors; method: brush–blow–vacuum sequence; acceptance: per manufacturer installation steps; evidence: checklist with brush size, photo of cleaned hole.
11	Check adhesive anchor curing conditions; method: record substrate temperature with IR thermometer and cure time; acceptance: within manufacturer's range; evidence: temperature reading, cartridge batch/expiry photo.
12	Torque-test bolted connections; method: calibrated torque wrench; acceptance: torque matches approved values; evidence: torque log, paint-marked nuts/bolts, wrench calibration certificate.

Alignment and Tolerances

13	Set and verify rail alignment; method: laser line/level; tolerance: ± 3 mm over 10 m; evidence: laser reading photos and station reference.
14	Confirm movement slots/clearances at brackets and rails; method: feeler gauge; acceptance: clearances per drawings (e.g., 6–12 mm); evidence: measurement photo at each slot.
15	Check seating pad thickness and uniformity at panel bearing points; method: caliper; tolerance: ± 1 mm across points; evidence: thickness log and photos.
16	Verify panel joint width achievable from subframe setout; method: spacer gauges and tape; tolerance: per façade drawings ± 2 mm; evidence: gauge photo and grid reference.

Protection and Durability

17	Inspect coating/galvanizing on steelwork; method: dry film thickness (DFT) gauge; acceptance: DFT $\geq$ specified and no holidays; evidence: DFT readings with locations and photos.
18	Verify stainless fastener grade and isolation; method: head stamp check and isolation washers/sleeves; acceptance: correct grade and no direct dissimilar contact; evidence: close-up stamps and washer photo.
19	Check drainage/weep paths at brackets and rails; method: visual or light water test; acceptance: unobstructed flow paths; evidence: short video/photo sequence.
20	Seal penetrations per details without restraining movement; method: visual; acceptance: approved sealant type, neat finish, labels recorded; evidence: sealant lot/expiry and photo.

Testing and Sign-Off

21	Perform proof load tests on sample anchors; method: calibrated pull-tester; acceptance: $\geq$ design test load with < 1 mm permanent set; evidence: test report with curves and photos.
22	Inspect welds on support framing; method: visual testing per approved project specifications and authority requirements; acceptance: no cracks, porosity, or undercut; evidence: VT report and welder ID.
23	Verify earthing/bonding continuity where required; method: multimeter; acceptance: resistance $\leq 0.5 \Omega$ between points; evidence: readings log and tag locations.
24	Complete as-built survey and hold-point sign-off before panel hoisting; method: total station and digital signatures; acceptance: deviations within tolerances and all NCRs closed; evidence: stamped survey and sign-off sheet.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect GRC or GFRC panel anchors and support framing to verify every connection that carries the façade's weight and wind loads. This checklist targets GFRC cladding anchors, support brackets, and secondary steel or aluminum subframing that position glass fiber reinforced concrete panels. It excludes architectural sealant aesthetics or full panel installation, focusing strictly on anchors, fixings, and framing before hoisting. You will confirm bracket stand-off, rail alignment, joint allowances, corrosion protection, and proof testing so the load path is continuous and resilient. By controlling tolerances early, you prevent cracked panels, rattling façades, galvanic corrosion, water traps, and costly rework. Evidence-based steps capture torque logs, pull-test results, coating thickness, and as-built surveys per approved project specifications and authority requirements. Use this interactive checklist to tick items, add comments with photos, and export as PDF/Excel; a QR code secures traceability across reviews and handover.	1. Preparation: Gather approved drawings, fixing schedules, ITP, and submittals. Bring a total station/laser, digital level, torque wrench, pull-tester, calipers, feeler gauges, DFT gauge, IR thermometer, and PPE. Confirm safe access (scaffold/MEWP tags), permits, and a clean inspection area. 2. Using the Interactive Checklist: Open the relevant area, start interactive mode, tick each item as completed, and attach photos, readings, and batch labels in comments. Tag locations by gridline. When finished, export the record as PDF/Excel and share via QR for verification. 3. Sign-Off: Resolve comments and NCRs, then obtain digital signatures from inspector, contractor, and designer as required. Archive the signed checklist, test reports, and as-built survey. Store the QR-authenticated package in the project CDE for traceable closeout.