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Inspect GRC or GFRC Panel Installation and Joint Alignment

Inspect GRC or GFRC panel installation and joint alignment with our interactive checklist, commentable and export as PDF/Excel to verify tolerances and approvals.

Project:	
Date:	
Filled by:	

Documentation & Approvals	
1	Confirm latest IFC drawings, approved shop drawings, method statements, and ITP are on-site and in the app; acceptance: current revisions only; evidence: capture revision numbers and responsible signatories.
2	Cross-check panel type, finish, and location tags against approved schedules before install; method: compare delivery labels to layout; acceptance: 100% match; evidence: photos of tags and delivery tickets.
3	Verify installer qualifications and lifting/rigging certificates are valid; method: review competency cards and sling tags; acceptance: in-date certifications; evidence: copies or photos attached to lot.

Substructure & Tolerances	
4	Survey primary support frame datums with total station/laser; acceptance: deviation ≤ ±5 mm over 10 m and ≤ ±3 mm at bracket points; evidence: upload survey report and marked photos.
5	Verify bracket locations and stand-off dimensions vs setting-out; method: steel tape/laser measure; acceptance: within ±3 mm of design; evidence: annotated photos with measurements.
6	Check anchors/brackets for corrosion protection and damage; method: visual inspection with good lighting; acceptance: intact coating, no burrs or deformation; evidence: close-up photos before fixing.
7	Confirm isolators/shims are non-corrosive, compressive-grade, and thickness recorded; method: caliper measurement; acceptance: sizes per design stack-up; evidence: shim log and photos in place.

Panel Installation	
8	Check lifting points, inserts, and slings before hoist; method: inspect hardware and sling SWL vs panel mass; acceptance: SWL ≥ required with safety factor; evidence: sling tag photo and lift plan reference.
9	Confirm panel ID matches grid location prior to fixing; method: tag cross-check to layout; acceptance: correct panel at position; evidence: photo of tag against elevation mark.
10	Verify panel plumb using spirit level/laser; acceptance: out-of-plumb ≤ 3 mm per 3 m height; evidence: photo showing bubble/laser reading and reference height.
11	Check panel level and face plane with 2 m straightedge; acceptance: offset between adjacent panels ≤ 3 mm; evidence: straightedge photo with feeler gauge reading.
12	Tighten mechanical fixings with a calibrated torque wrench; acceptance: 90–110% of specified torque; evidence: torque log with wrench serial, setting, and signature.
13	Confirm restraint anchors are fully engaged without fouling reinforcement; method: visual/witness marks; acceptance: ≥ 2 full threads visible beyond nut; evidence: close-up photos.
14	Check bedding pads under bearing points are seated and evenly compressed; method: feeler gauge and visual; acceptance: ≥ 80% contact area; evidence: pre- and post-load photos.

Joints & Sealant	
15	Measure joint width at three points per joint with feeler gauge; acceptance: within ±2 mm of design width (e.g., 10–15 mm); evidence: recorded readings and photos.
16	Check joint alignment continuity with string line/laser along elevation; acceptance: deviation ≤ 3 mm over 10 m run; evidence: alignment photos and laser readouts.
17	Verify backer rod diameter is 25–50% larger than joint; method: caliper and sample check; acceptance: continuous, not stretched or twisted; evidence: packaging lot and in-situ photo.
18	Inspect sealant bead: depth/width ≈ 1:2, proper tooling and adhesion; method: depth gauge and visual; acceptance: smooth profile, no voids; evidence: close-up photos and batch number.
19	Confirm drainage paths/weep holes behind panels are unobstructed; method: probe test and water pour if safe; acceptance: free flow to designed outlets; evidence: video/photo and notes.

QA Evidence & Sign-off	
20	Capture façade elevation photos per bay after alignment; acceptance: no edge chips > 5 mm on exposed faces; evidence: labeled grid photos and punch-list status.
21	Record ambient and substrate conditions during sealing; method: thermometer/hygrometer; acceptance: 5–35 °C, RH ≤ 80%, dry substrate; evidence: meter readings with timestamps.
22	Verify temporary protection (edge guards, films) installed post-seal; acceptance: full coverage until handover; evidence: photos and protection plan reference.
23	Obtain inspection approvals: installer QC, main contractor, consultant; acceptance: all comments closed; evidence: signed IR/ITP, NCRs resolved with photos.
24	Complete as-built survey of panel coordinates; method: total station export; acceptance: nodes within ±5 mm of grid; evidence: attached CAD/CSV and sign-off.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect GRC or GFRC panel installation and joint alignment to ensure façade accuracy, durability, and consistent appearance. This checklist supports inspections of glassfibre reinforced concrete cladding, including GFRC façade panels, joint width control, panel plumbness, and sealant continuity. It focuses on installed panels only—design calculations, casting quality, and off-site curing are outside scope and must be confirmed via submittals. By verifying substructure datums, anchor engagement, torque, shim/bedding uniformity, and drainage continuity, you reduce risks like water ingress, rattling, stress cracking, and uneven shadow lines. Acceptance cues and practical tolerances are stated in SI units, with reminders to follow approved project specifications and authority requirements where stricter. The result is a watertight, aligned, and documented installation ready for consultant sign-off. Use this interactive checklist to tick items, add comments, attach photos and readings, and export your report to PDF/Excel; start by scanning the QR to authenticate your session.	1. Preparation: assemble laser level/total station, 2 m straightedge, torque wrench, calipers/feeler gauges, thermometer/hygrometer, PPE, access equipment, lighting, and approved drawings, method statements, and ITPs loaded in the app. 2. Open the project and confirm the latest revisions are synced. Create inspection lots by elevation/bay so evidence, measurements, and photos align with grid references. 3. Start interactive mode, scan the QR to authenticate, and select the relevant lot. Tick items as you proceed, guided by the group structure. 4. Add comments, assign actions with deadlines, and attach photos, torque logs, and survey files directly to each item for traceability. 5. On completion of a bay, run a quick review filter for unticked or commented items. Resolve punch-list entries and recheck affected tolerances. 6. Export the report as PDF/Excel with embedded photos, measurement tables, and signatures. Share with stakeholders and archive within your QA records. 7. Sign-Off: capture digital signatures from installer QC, main contractor, and consultant; lock the checklist. The QR authenticates the final, approved record.