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Test Façade Gasket Continuity & Compression Post-Install

Test façade gasket continuity and compression after installation with an interactive checklist. Add commentable notes and export as PDF/Excel for compliant, traceable façade QA.

Project:
Date:
Filled by:

Pre-Test Setup	
1	Confirm safe weather window and dry substrates; avoid heavy rain and wind >8 m/s. Record ambient temperature (5–35 °C) and humidity. Attach timestamped weather app screenshot to the checklist.
2	Verify installed gasket profile matches approved submittals. Compare markings to drawings; photograph packaging labels and lot numbers for traceability.
3	Calibrate and document tools: feeler gauges (± 0.05 mm), digital calipers (± 0.01 mm), torque wrench (5–12 N·m). Photograph calibration stickers and record due dates.
4	Define test sample: select 3–5 adjacent units per elevation and floor. Tag each with a QR location ID and upload a marked elevation sketch.

Visual Continuity Inspection	
5	Survey linear gasket runs with flashlight and inspection mirror. Acceptance: no visible gaps or daylight; discontinuities ≤ 2 mm prohibited. Capture close-ups every 1 m.
6	Inspect corners and splices for tight, aligned joints; no fishmouths or voids. Acceptance: overlaps/joins per manufacturer; provide macro photos of each junction.
7	Verify gasket seated fully in reglet/rebate with no twist or roll. Tactilely press along length; use borescope where concealed. Record borescope stills.
8	Check transitions at mullion intersections and terminations. Ensure continuous seal without blocking drainage/weep paths. Photograph every transition and nearest weep.
9	Confirm lubricants/adhesives (if used) are cured/tack-free and not occluding weeps. Log product batch numbers and curing time; add close-up photos.
10	Perform gentle retention pull at random points: apply ~10 N to exposed edge. Acceptance: no detachment or movement. Record force and result in notes.

Compression Verification	
11	Measure joint opening and gasket free thickness with calipers (± 0.01 mm). Record three baseline readings per unit with photos of measurement points.
12	Use a 0.10 mm feeler gauge at contact lines. Acceptance: insertion depth ≤ 10 mm at any location. Log depth attempts and failed points on plan.
13	Place pressure-sensitive film (0.2–1.0 MPa range) across 100 mm sample under normal clamping. Acceptance: continuous print; no unprinted spans > 20 mm. Photograph film results with scale.
14	Verify fastener torque where pressure plates/clips regulate compression: 7–9 N·m or per approved project specifications. Record min/max torque and tool serial.
15	Calculate compression percentage: $[(\text{free thickness} - \text{installed thickness}) / \text{free thickness}] \times 100$. Acceptance: 25–35% or per approved project specifications. Upload calculations and screenshots.
16	Assess rebound/permanent set after unloading (if accessible) for 10 minutes. Acceptance: permanent set $\leq 10\%$. Record before/after thickness with caliper photos.

Air/Water Tightness Spot Checks	
17	From interior, sweep a smoke pencil along gasket lines under typical wind. Acceptance: no sustained inward smoke flow. Capture short videos with timestamps.
18	Use ultrasonic leak detector with exterior tone source. Acceptance: interior readings \leq baseline +3 dB. Save instrument screenshots with location tags.
19	Conduct localized spray test: fan pattern ~ 3 L/min at 300 mm for 5 min on sample joint. Acceptance: no water past gasket. Photograph setup and area.
20	Immediately inspect interior; swipe adjacent surfaces with paper towel. Acceptance: towel remains dry; no dampness lines. Photograph towels and surfaces.

Documentation and Evidence	
21	Geotag and label all photos/videos; link to unit IDs. Attach drawings, batch numbers, and calibration records. Ensure consistent file naming.
22	Enter inspector name, date/time, weather, tools used, and observations. Secure digital signatures from inspector and contractor representative.

Corrective Actions and Sign-Off	
23	For defects, mark exact location, replace or re-seat gasket to specified length/compression, clear weeps, and retest. Upload before/after evidence.
24	Issue final acceptance when all criteria met and evidence complete. Export report to PDF/Excel, circulate to stakeholders, and archive with QR verification.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
<p>Test façade gasket continuity and compression after installation using a structured, field-proven process. This checklist focuses on curtain wall gaskets, EPDM glazing seals, and rainscreen interfaces after units are fully installed, ensuring uninterrupted sealing and correct compressive contact. By verifying linear runs, corners, splices, and transitions, and by measuring actual compression with feeler gauges and pressure-sensitive film, you reduce risks of water ingress, air leakage, drafts, noise, and premature seal failure. The scope excludes chamber testing and full-system certification; instead it delivers rapid, repeatable field verification aligned with approved project specifications and authority requirements. Acceptance cues include uniform contact, documented torque where applicable, targeted compression percentage, and clean drainage paths. Outcomes include a tighter, more durable façade, validated evidence for warranty, and faster closeout with fewer punchlist returns. Use this interactive checklist to tick items, add photos and comments, and export results as PDF/Excel with a secure QR for traceability.</p>	<ol style="list-style-type: none"> 1. Preparation: Gather drawings, approved gasket data, flashlight, mirror/borescope, feeler gauges, digital calipers, pressure-sensitive film, torque wrench, smoke pencil, ultrasonic detector, and spray equipment. Confirm safe access, weather window, and calibrated tools. Define test areas and assign unit IDs. 2. Start Interactive Mode: Open the checklist on your device, scan or assign the QR location tag, and select the test area. Tick each step as completed, add time-stamped photos/videos, and reference lot numbers, instrument serials, and measurement values. 3. Add Comments and Evidence: Use comments to note anomalies, failed points, and corrective actions. Attach marked-up sketches, film print photos with scales, and torque logs. Link all media to specific units and gridlines for traceability. 4. Review and Sign-Off: Verify all mandatory items are ticked, tolerances met, and failures retested. Apply digital signatures from inspector and contractor. Generate a concise summary with pass/fail counts and location-based findings. 5. Export and Archive: Export the record as PDF/Excel, share with stakeholders, and archive with the embedded QR for authentication. Store calibration certificates and submittals alongside the report for a complete audit trail.