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Inspect Punched Window Perimeter Sealant & Waterproofing

Inspect punched window perimeter sealant and waterproofing interface with our interactive checklist, commentable and export as PDF/Excel for watertight, durable openings.

Project:

Date:

Filled by:

Documentation & Environmental Conditions

1	Verify approved drawings, details, and manufacturer data sheets match the opening ID and site conditions.
2	Record ambient/substrate temperature and RH using IR thermometer and hygrometer; accept within product limits (e.g., 5–40 °C, RH < 85%); attach time-stamped photos.
3	Review forecast and install weather protection (tarp/tenting) so no rain contacts fresh sealant for 24 h; upload forecast screenshot and site photos.
4	Measure substrate moisture with a meter; accept $\leq 15\%$ or per manufacturer; log readings and photo of meter display.

Substrate & Opening Preparation

5	Measure rough opening against drawings with a steel tape; accept ± 3 mm tolerance; record dimensions and include a photo with tape visible.
6	Verify sill slopes outward using a digital level; accept 3–6° ($\approx 1:20$ – $1:10$); photograph level reading.
7	Inspect substrates for soundness and cleanliness; perform tape pull where needed; accept no dust, oil, laitance, or loose coatings; upload close-up photos.
8	Confirm fastener/anchor penetrations are per design and sealed; accept no unplanned holes through WRB; provide annotated photos or RFI reference.

Waterproofing Interface & Flashings

9	Install/inspect sill pan or liquid-applied pan; accept continuous coverage, upturn 25–50 mm, formed end dams; show roller/trowel marks and ruler in photos.
10	Verify shingle-style WRB laps around opening; accept ≥ 100 mm vertical laps and ≥ 150 mm head overlaps; photograph each side.
11	Inspect corner reinforcement patches (pre-formed or layered); accept full adhesion with no fishmouths or wrinkles; upload close-up photos.
12	Check transition membrane bonding from wall WRB to frame/flange; pressure-roll; accept 65–100 mm laps and full contact; include roller-in-use photo.
13	Seal all membrane terminations and penetrations at head and jambs with compatible sealant; accept continuous 6–10 mm fillet; provide photos.

Sealant Application & Tooling	
14	Confirm backer rod is closed-cell and 25–30% larger than joint width; measure with calipers; record product and lot number photo.
15	Check joint width/depth using feeler gauge and spacers; accept width per design (typically 6–12 mm) and depth $\approx 1/2$ width; attach measurements.
16	Apply primer (if required) by brush/roller; verify uniform wet-film thickness with a gauge and correct flash-off; log WFT readings and time.
17	Gun sealant in a continuous bead from bottom up; accept no voids, overlaps ≥ 25 mm at restarts; capture in-progress photos.
18	Tool to a smooth, concave profile using a rounded spatula per manufacturer; verify two-sided adhesion (backer/bond breaker in place); upload close-ups.
19	Record sealant product name, color, movement capability, expiration date, and lot; photograph labels and upload delivery tickets.

Verification, Testing & Records	
20	Protect fresh sealant with temporary shields/signage; accept no disturbance until tack-free/cured per datasheet; log cure start/finish and photos.
21	Conduct controlled water spray test after cure per approved project specifications and authority requirements; 205–380 kPa for 5–10 min; accept no interior leaks; upload video/photos.
22	Scan interior for moisture using infrared camera or moisture meter; accept readings at or below background; attach thermal images and meter photos.
23	Confirm sill weeps/drain paths are clear using a probe; accept unobstructed flow to exterior; include before/after photos.
24	Complete digital sign-off by installer, QC, and client; close NCRs or record corrective actions; export PDF/Excel with QR for archives.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect punched window perimeter sealant and waterproofing interface to ensure a continuous, durable barrier where window frames meet the exterior wall assembly. This checklist focuses on the critical junction between the sealant joint, flashing, and air/water-resistive barrier, sometimes called the window opening interface or WRB transition. You will verify substrate readiness, membrane laps, pan flashing, joint geometry, and sealant curing while documenting evidence. By controlling these details, teams prevent water ingress, air leakage, and premature sealant failure that can damage interiors, reduce energy performance, and trigger costly rework. The scope excludes glazing bead work, interior finishes, and unrelated façade systems; it centers solely on the exterior perimeter interface of punched windows. Outcomes include watertightness, compatible materials, and traceable records, achieved through disciplined inspection at pre-install, in-progress, and post-cure stages under acceptable weather. Start in interactive mode to tick items, add comments, upload photos, and export PDF/Excel with a QR-secured record.	1. Preparation: gather approved drawings, sealant/WRB data sheets, PPE, steel tape, calipers, feeler gauges, wet-film gauge, IR thermometer, hygrometer, moisture meter, digital level, roller/trowel, and camera. 2. Verify site conditions: clean work zone, weather protection ready, materials acclimated, and tools calibrated with spare batteries and memory for photo documentation. 3. Open the interactive checklist, select project and opening ID, and start inspection mode to tick items sequentially by group. 4. Attach evidence: add time-stamped photos, readings, and label shots to each item; use comments to note locations, measurements, and responsible parties. 5. Flag issues as nonconformances, assign actions with due dates, and track status until closure without altering completed evidence. 6. Export results as PDF/Excel with QR authentication for field verification; share with stakeholders and upload to the project document control system. 7. Sign-off: capture digital signatures from installer, QC, and client; archive the finalized report per approved project specifications and authority requirements.