



# Inspect curtain wall interface with RC slab edges checklist

Inspect curtain wall interface with reinforced concrete slab edges using an interactive checklist; commentable and export as PDF/Excel. Ensure compliance.

Project:

Date:

Filled by:

## Pre-Installation Verification

|   |                                                                                                                                                                                                                |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Compare approved shop drawings and interface details against as-built slab edge survey using total station; accept discrepancies $\leq 5$ mm; attach redlined drawings, survey report, and reviewer signature. |
| 2 | Confirm concrete compressive strength at slab edge meets design via cylinder tests or core reports (target per specification, e.g., $f'_c \geq 30$ MPa); upload lab results and approval.                      |
| 3 | Verify cast-in anchors/embeds locations and elevations with total station; accept position $\pm 5$ mm and level $\pm 3$ mm; provide layout photos and survey log.                                              |
| 4 | Scan slab edge reinforcement with a rebar locator to confirm clearances for drilling; accept required edge distance and cover per approved project specifications; upload scan images.                         |

## Slab Edge and Substrate Condition

|   |                                                                                                                                                                                                  |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5 | Check slab edge straightness and plumbness using laser and 3 m stringline; accept deviation $\leq 5$ mm over 3 m; record readings and photos with scale.                                         |
| 6 | Inspect for fins, honeycombing, or voids; mark and repair with approved mortar; acceptance: sound substrate, voids fully patched and cured; attach before/after photos and product batch labels. |
| 7 | Measure surface moisture with a concrete moisture meter; accept per sealant/membrane datasheet (surface dry to touch); document readings and ambient conditions.                                 |
| 8 | Confirm fireproofing or coatings terminate neatly at interface; trim overspray and verify thickness with gauge; accept as uniform and documented; upload gauge readings and photos.              |

## Anchors and Brackets Installation

|    |                                                                                                                                                                                   |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9  | Drilled hole diameter and depth per anchor manufacturer; verify with calipers and depth gauge; accept $+0/-1$ mm diameter, full embedment; include hole log and tool calibration. |
| 10 | Clean holes using brush-blow-brush with certified kit; document cycles; accept cleanliness per manufacturer; add time-stamped photos and checklist.                               |
| 11 | Set anchors to specified torque/set force using calibrated wrench or setting tool; accept $\pm 10\%$ of required value; upload torque log and calibration certificate.            |
| 12 | Align brackets plumb/level with digital level and shims; accept $\pm 2$ mm and $\pm 0.2^\circ$ ; provide measurement photos and installer sign-off.                               |

| Air/Water Seal and Flashing |                                                                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13                          | Lap air barrier membrane from slab edge to mullion continuity strip; accept laps $\geq 100$ mm and tight adhesion $\geq 1$ N/mm; attach peel test photos.                 |
| 14                          | Verify primer compatibility and cure times before membrane or sealant; accept per manufacturer datasheet; record lot numbers, start/finish times, and ambient conditions. |
| 15                          | Install backer rod and perimeter sealant; accept width per design (typically 12–20 mm), depth $\approx 1/2$ width, smooth tooling; upload joint gauge photos.             |
| 16                          | Confirm sill drainage/weep paths at interface are unobstructed; test with water probe; accept free flow to exterior; provide test video and marked photos.                |

| Fire, Acoustic, and Thermal Barriers |                                                                                                                                                                             |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17                                   | Install perimeter fire barrier mineral wool with 25% compression; accept density $\geq 80$ kg/m <sup>3</sup> and full-depth continuity; attach photos and packaging labels. |
| 18                                   | Apply smoke seal coating continuously; verify wet film thickness with gauge; accept thickness per datasheet; include readings and batch numbers.                            |
| 19                                   | Verify acoustic seals in spandrel zone are continuous; accept no visible gaps or hard bridges; upload detail photos and product data.                                       |
| 20                                   | Confirm thermal break pads at brackets are intact and fully bearing; accept undamaged, correct size; provide close-up photos and material tags.                             |

| Movement Joints and Finishes |                                                                                                                                                                 |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 21                           | Measure designed movement gap for slab deflection/drift allowances; accept clear gap per design (e.g., 20–40 mm); include measurement photo and layout mark-up. |
| 22                           | Use non-compressible, secured packers/shims (e.g., HDPE or aluminium); accept per approved project specifications; upload photos and material certificates.     |
| 23                           | Align cover plates/flashings with uniform reveals; accept $\pm 2$ mm over 2 m; verify stainless fasteners; include straightedge photos and fixings close-ups.   |
| 24                           | Perform controlled water spray at interface after sealant cure: 5 min at $\sim 200$ kPa; accept no interior leakage; upload test video and witness signatures.  |

**Comments:**

Filled by:

Signature:

| Introduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | How to use this checklist                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <p>Inspect curtain wall interface with reinforced concrete slab edges is a critical quality-control task that ensures the façade-to-structure connection performs as designed. This checklist focuses on the slab edge interface, spandrel zone continuity, and curtain wall-to-structure anchorage, addressing air and water tightness, firestopping, acoustic seals, and thermal breaks. It guides inspectors through substrate verification, anchor installation, bracket alignment, membrane lapping, perimeter sealants, and movement joint allowances. By concentrating on the reinforced concrete perimeter and the curtain wall frame interface, teams can prevent water intrusion, thermal bridging, smoke migration, and stress concentrations from slab deflection or interstory drift. The outcome is a durable, code-compliant, and warrantable assembly that protects finishes and occupants while simplifying closeout. Use this interactive checklist to tick items, add comments with photos and readings, and export your record as PDF/Excel via a secure QR code.</p> | <p>1. Preparation: Gather approved drawings, interface details, product datasheets, and inspection test plans. Bring total station/laser, rebar scanner, depth gauge, calibrated torque wrench, joint gauges, moisture meter, wet film gauge, PPE, and access equipment. 2. Set up site conditions: Confirm safe access, lighting, and weather windows. Stage materials, verify tool calibrations, and coordinate with façade and concrete teams for uninterrupted inspection windows. 3. Using the Interactive Checklist: Start interactive mode, select location/elevation, and tick items as verified. Add time-stamped comments, photos, readings, batch labels, and markups directly to each line item. 4. Issue tracking: Open comments for nonconformities, assign actions, owners, and due dates. Request re-inspection with photos or retest results before closure. 5. Export and share: Generate PDF/Excel reports with embedded photos and evidence. Include the secure QR code for authenticity and quick retrieval on site. 6. Sign-Off: Capture digital signatures from inspector, contractor, and consultant. Distribute final reports to stakeholders and archive per approved project specifications and authority requirements.</p> |