

High-Rise Glass Glazing & Installation Checklist

Site / Project	_____	Address	_____
Inspector name	_____	Company	_____
Date	_____	Time	_____

Documentation aid only. Adapt this resource to the site, manufacturer instructions, and applicable local requirements. It does not replace a competent person, professional judgment, legal advice, or a required statutory form.

Inspection checklist

Vacuum Lifter Inspection

☐ Inspect vacuum lifter pads for cuts, tears, or debris before each lift. Replace damaged pads immediately.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Verify vacuum lifter battery is fully charged before starting work. Ensure sufficient charge for the day's planned lifts.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Confirm vacuum gauge is functioning correctly and displays adequate vacuum pressure (minimum 80% of rated capacity) before lifting.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Test audible and visual low-vacuum alarms before each use. Ensure alarms activate at the manufacturer's specified threshold.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Verify the vacuum lifter's rated capacity exceeds the weight of the glass panel being lifted, with a safety factor of at least 2:1.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Inspect all vacuum hoses and connections for leaks or damage. Replace any compromised components immediately.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Review vacuum lifter maintenance records to ensure regular inspections and servicing are up-to-date.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Verify the emergency vacuum release mechanism is functional and easily accessible in case of power failure.	☐ Pass	☐ Fail	☐ N/A	Notes: _____

☐	Confirm all operators are trained and certified in the safe operation of the specific vacuum lifter model being used.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Assess weather conditions (wind speed, rain) and halt glazing operations if conditions exceed the vacuum lifter's or glass panel's safe operating limits.	☐ Pass	☐ Fail	☐ N/A	Notes: _____

Wind Load & Environmental Conditions

☐	Determine maximum allowable wind speed for glazing operations based on glass size, vacuum lifter capacity, and site-specific conditions. Use an anemometer to measure wind speed.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Monitor wind gust frequency and intensity. Suspend glazing operations if gusts exceed 75% of the maximum allowable wind speed.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Review updated weather forecasts at least every 4 hours to anticipate changes in wind conditions and adjust work plans accordingly.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Ensure glass panels are securely stored and protected from wind exposure before installation. Use appropriate bracing and tie-downs.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Identify and mitigate potential wind obstructions (e.g., adjacent buildings) that could create localized wind turbulence.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Monitor temperature extremes (high and low) that could affect vacuum lifter performance or glass panel integrity. Consult manufacturer specifications.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Suspend glazing operations during heavy rain or snow to prevent slippage and reduced visibility.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Monitor humidity levels, as high humidity can affect vacuum lifter performance. Consult manufacturer specifications.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Verify a site-specific wind action plan is in place and communicated to all personnel involved in glazing operations.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Ensure a clear emergency shutdown procedure is in place and understood by all personnel in case of sudden adverse weather conditions.	☐ Pass	☐ Fail	☐ N/A	Notes: _____

Edge Protection & Fall Prevention

☐	Verify perimeter guardrails are installed and properly secured on all open edges where glazing is taking place. Ensure guardrails meet OSHA height requirements (42 inches +/- 3 inches).	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Inspect safety nets for proper installation, adequate overlap, and sufficient clearance below. Ensure nets are free from damage or debris.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Ensure all glaziers are wearing properly fitted personal fall arrest systems (PFAS) with appropriate anchorage points. Inspect harnesses and lanyards for damage.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Verify anchorage points for PFAS are certified to withstand a minimum of 5,000 pounds per employee attached or designed by a qualified person.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Establish controlled access zones (CAZ) where guardrails or safety nets are not feasible. Clearly mark CAZ boundaries with warning lines or control lines.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Ensure warning lines are erected at least 6 feet from the edge of the roof or working surface. Verify lines are flagged every 6 feet.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Are 3.5-inch toe boards installed on all open sides to prevent tools and materials from falling (where applicable)?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Provide edge protection (e.g., edge protectors, gloves) to prevent cuts and lacerations when handling glass panels.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Establish and enforce a strict drop zone management plan to prevent tools and materials from falling to lower levels.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Maintain good housekeeping practices to prevent slips, trips, and falls. Keep walkways clear of debris and obstructions.	☐ Pass	☐ Fail	☐ N/A	Notes: _____

Personal Protective Equipment (PPE)

☐	Verify all personnel are wearing ANSI-approved hard hats in good condition.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Ensure all personnel are wearing ANSI Z87.1-approved safety glasses with side shields.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Confirm glaziers are wearing cut-resistant gloves when handling glass panels.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Ensure all personnel are wearing high-visibility clothing (Class 2 or 3) that meets ANSI 107 standards.	☐ Pass	☐ Fail	☐ N/A	Notes: _____

☐	Verify all personnel are wearing steel-toed boots that meet ASTM F2413 standards.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Inspect fall protection harnesses for proper fit, damage, and wear. Ensure D-rings are in good condition.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Ensure personnel are wearing appropriate clothing for the weather conditions (e.g., rain gear, thermal layers).	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Encourage the use of sunscreen and hats to protect against sun exposure.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Assess the need for respiratory protection based on site-specific conditions (e.g., dust, fumes). Provide appropriate respirators if required.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Verify that PPE is properly maintained, cleaned, and stored when not in use.	☐ Pass	☐ Fail	☐ N/A	Notes: _____

Findings

#	Item	Location	Severity	Action required
1				
2				
3				
4				
5				
6				
7				
8				

Signature

Inspector signature _____

Name _____

Date _____