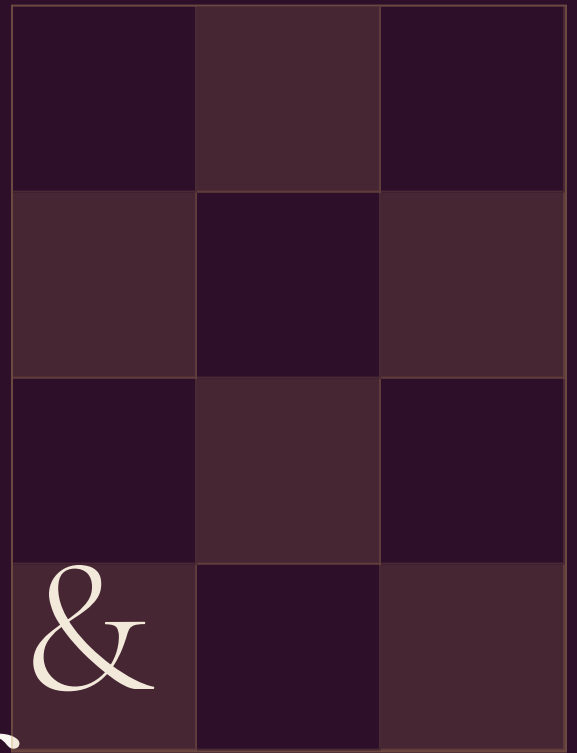


INSTALLATION & WATERPROOFING

Installation & Waterproofing *Checklist.*



For Custom Steel & Thermally Broken Aluminum

Installation & waterproofing checklist.

Supports proper installation sequencing, structural alignment, and moisture protection. Always follow approved shop drawings and engineered details where applicable.

01 PRE-INSTALLATION VERIFICATION

Complete before unit delivery or install day.

- ☐ Rough opening matches approved shop drawings
- ☐ Opening is plumb
- ☐ Header is level
- ☐ Sill is level
- ☐ Opening is square (diagonals verified)
- ☐ Structural reinforcement is complete
- ☐ Substrate is structurally secure
- ☐ Required inspections have passed

Do not install into misaligned or unstable framing conditions.

02 SUBSTRATE & OPENING PREPARATION

Before setting the unit.

- ☐ Opening is clean and free of debris
- ☐ Fastening substrate is solid and continuous
- ☐ Substrate is fully supported
- ☐ No voids beneath threshold area
- ☐ Sheathing and WRB are properly integrated

FOR FLUSH SILL SYSTEMS

- ☐ Slab recess verified
- ☐ Continuous support confirmed
- ☐ Drainage path planned

Improper substrate preparation increases deflection and water intrusion risk.

03 WATERPROOFING & FLASHING INTEGRATION

Follow project-specific envelope strategy. Confirm:

- ☐ Sill flashing installed per detail
- ☐ End dams installed where required
- ☐ WRB properly lapped and integrated
- ☐ Self-adhered flashing membrane applied correctly
- ☐ No reverse laps in flashing sequence
- ☐ Penetrations sealed prior to setting unit

Sill protection must be installed before unit placement.

04 SETTING THE UNIT

During placement.

- ☐ Unit is centered within opening
- ☐ Required installation clearances maintained
- ☐ Shim locations planned before fastening
- ☐ No twisting or forcing of frame

Do not rack frame to compensate for framing irregularities.

05 SHIMMING STANDARDS

- ☐ Shim at anchor points
- ☐ Shim at hinge locations for operable units
- ☐ Shim at locking points
- ☐ Shim at sill corners
- ☐ Maintain uniform bearing support

Shims must be non-compressible and moisture-resistant. Improper shimming leads to operational failure.

Installation & waterproofing checklist.

SEQUENCING & ALIGNMENT · CONT'D

06 FASTENING

Confirm:

- ☐ Fasteners match approved specifications
- ☐ Anchor spacing follows approved details
- ☐ Anchors are not over-tightened
- ☐ Frame is not distorted during fastening
- ☐ Threshold anchoring is continuous and secure

Over-tightening can distort minimal sightline frames.

07 PLUMB, LEVEL & OPERATIONAL CHECK

Before sealing.

- ☐ Frame remains plumb
- ☐ Frame remains level
- ☐ Diagonals rechecked
- ☐ Operable panels open and close smoothly
- ☐ Locks engage properly
- ☐ Panels align evenly

Correct alignment before perimeter sealing.

08 PERIMETER SEALING

After alignment is confirmed.

- ☐ Backer rod installed where required
- ☐ Sealant compatible with frame finish
- ☐ Continuous seal applied
- ☐ No gaps in perimeter seal
- ☐ Sealant tooling complete

Sealant must not block intended drainage paths.

09 DRAINAGE & WEEP VERIFICATION

Confirm:

- ☐ Drainage channels are unobstructed
- ☐ Weep holes remain clear
- ☐ Flashing path directs water outward
- ☐ No sealant blocking weeps

Blocking drainage paths is a common installation error.

10 COORDINATION WITH EXTERIOR CLADDING

Before exterior finish.

- ☐ Flashing integrated with WRB
- ☐ Cladding clearances maintained
- ☐ No compression of frame by siding or stucco
- ☐ Expansion allowances maintained

Improper cladding compression can distort frames.

11 IMMEDIATE POST-INSTALL PROTECTION

After installation.

- ☐ Surface protection applied
- ☐ Hardware protected
- ☐ Traffic barriers installed if needed
- ☐ Units protected from other trades

Steel and aluminum finishes are vulnerable during construction.

Avoid, pause & protect.

RISK & LIABILITY

12 COMMON INSTALLATION ERRORS TO AVOID

- Installing into out-of-square opening
- Skipping sill flashing
- Over-tightening fasteners
- Failing to shim hinge points
- Blocking weep systems
- Applying sealant before verifying operation
- Allowing cladding to compress frame

These errors create long-term performance issues.

13 WHEN TO PAUSE INSTALLATION

Stop and review if:

- Opening dimensions do not match drawings
- Structural deflection is observed
- Unit does not sit level without force
- Drainage path cannot be properly integrated
- Substrate is unstable

Do not modify structural framing without approval.

IMPORTANT · INSTALLATION QUALITY DIRECTLY IMPACTS

- Water intrusion performance
- Structural stability
- Operational longevity
- Warranty protection

Proper sequencing protects both system performance and builder liability.