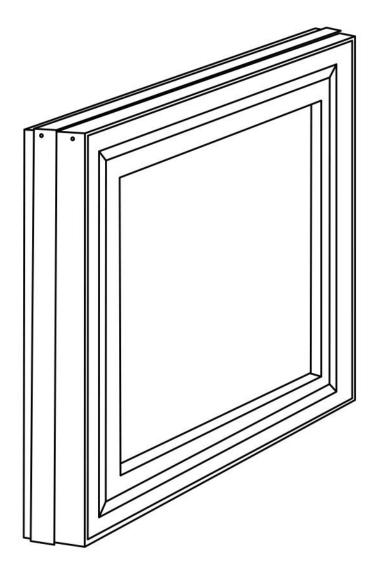
# **Block Frames**

### Installation Instructions







#### **IMPORTANT NOTICE**

Read these instructions thoroughly before beginning to install your RAM window or door product. Follow all guidelines regarding material use, preparation, personal safety and disposal. Failure to follow RAM's installation instructions and any other specific warnings, procedures for use, safety recommendations and standard construction practices can result in personal injury, poor product performance, and premature failure. Contact your RAM supplier if you have any questions regarding product and materials used in manufacturing. It is the responsibility of the builder, installer and subcontractors to protect the interior and exterior of RAM windows and doors from excessive contact with harsh chemical washes, construction material contamination and moisture.

#### **Care and Maintenance**

Every RAM window and door product has been designed and tested to meet or exceed industry performance and engineering standards. The key to preserving this performance is the proper installation, care, and maintenance of these products. Failure to perform regular maintenance will cause degradation of your window or door product and will void the manufacturer's warranty. Detailed care and maintenance instructions can be found on our website at **ramwindows.com**.

#### **Cleaning Instructions**

In addition to proper care and maintenance, all RAM window and door products should be cleaned using approved chemicals and solvents that prevent product degradation. A more detailed listing of cleaning methods and warnings can be found on our website at **ramwindows.com**. General cleaning instructions are as follows:

**FRAMES**: As with any building product, aluminum requires reasonable care during the installation process as well as periodic cleaning and maintenance after installation. Although both painted and anodized aluminum has excellent corrosion resistance properties, its natural beauty can be marred by harsh chemicals, abrasive materials or neglect. Such conditions usually affect only the surface appearance and do not reduce the service life of the product, however, the marks resulting from such mistreatment may be permanent.

#### During and immediately after installation:

• Protect all surfaces. It is especially important to not allow stucco or other concrete materials to set on the anodized or painted finish. These building materials are caustic and will permanently damage the finish.

- · Clean metal surfaces with mild soapy water, using a sponge or soft cloth.
- Rinse thoroughly by lightly spraying with clean water and repeat as needed.
- Wipe dry with a soft cloth.
- Make sure all weep holes, drain holes and tracks are unclogged.

**GLASS**: To preserve the visual and energy performance of your window or door, the glass units require reasonable care and attention. The glass surface, especially tempered glass, can be easily scratched or permanently damaged by improper cleaning. **NOTE**: Please reference Cardinal Glass Industries for proper handling of glass. More information can be found at **cardinalcorp.com**. **During and immediately after installation**:

#### During and immediately after installation:

• Protect all surfaces. It is especially important to not allow stucco or other concrete materials to set on the glass surface. These building materials are caustic and will permanently damage the glass surface.

- Clean glass surfaces with mild soapy water, using a sponge or soft cloth.
- Rinse thoroughly by lightly spraying with clean water and repeat as needed.
- Wipe dry with a soft cloth.
- · Make sure all weep holes, drain holes and tracks are unclogged.

• HELPFUL TIP: WINDOW AND DOOR STICKERS CAN BE MORE EASILY REMOVED IF SOAKED BY WATER FOR FIVE MINUTES PRIOR ATTEMPTED REMOVAL.

**COMPONENTS**: The internal and external components of your product are essential to the proper function and overall performance of your window or door. While these components have been designed for rugged durability, they still require regular inspection and maintenance to ensure proper operation.

#### During and immediately after installation:

· Vacuum out and clean any dirt or debris from the sill, roller assembly and track areas.

- Lubricate the hardware components, roller assembly and track with a wet silicone spray using a straw applicator.
- Inspect the weather-stripping to make sure it is clean and not torn or brittle.
- Inspect the window or door locks to make sure they function properly. Contact the manufacturer to adjust the locks if needed.



## **1** WINDOW STORAGE AND HANDLING

• Care should be taken when handling or storing a window product to protect against damage.

• Do not drop or drag a window unit at the job site to avoid racking or damaging the window. Racking a window may compromise the factory applied joint seal in the window frame or cause the window to become out of square.

• Handle the window unit by the jambs and not the by head section.

• For temporary storage at the job site, all windows should be stacked in a near vertical position with the window oriented in the proper direction.

The protective wood corner blocks supplied with the window should be kept on the frame during storage to elevate the window frame off the ground and to prevent the windows from rubbing together.
During temporary storage, protect the windows from weather elements by storing in a dry and

well-ventilated environment.

## **2 PREPARE THE ROUGH OPENING**

• Ensure that the rough opening does not contain any dissimilar metals, which may lead to galvanic corrosion with the aluminum window frame. If a dissimilar metal is used in the rough opening framing, it must be completely isolated from the window frame.

• The rough opening for the window should be sized one-quarter inch (1/4") larger than the window size (outside measurement of the window frame) in width and height. Provide a one-eighth inch (1/8") clearance around the window frame. (Note: When using a rigid sill panningproduct, the rough opening dimensions may have to be adjusted accordingly to account for the height of the panning.)

• The rough opening framing should be level, plumb, square and structurally adequate.

• On shapes such as round tops, eyebrow arch tops, rakes (polygons), bulls-eye (round) and octagons, make sure there is proper bracing in the rough opening framing.

• A rigid or flexible sill-panning product should be installed following the manufacturer's instructions.

• For a masonry installation, drill holes for frame anchors in the rough opening frame prior to installation of the frame.

• Place temporary shims at each corner of the rough opening where the jamb meets the sill.

Note: The shims should be a non-porous, non-absorbent and inorganic material.



## **3** WINDOW PREPARATION

• Place the window product at the appropriate rough opening and remove the protective wood corner blocks from the window frames.

• Inspect each window unit for correct size, type and any hidden damage. If a problem exists, immediately report it to your distributor.

• Make sure that the operable sash is closed and locked during the entire installation process.

## **4 WINDOW INSTALLATION**

• Insert the window into the rough opening from the outside and rest it on the temporary shims.

• Adjust the placement of the window unit by shimming at the head, jambs and sill.

• Cross measure the window unit diagonally in both directions and adjust as necessary to achieve a level, plumb and square condition as well as an even reveal around the frame opening.

• Ensure there are no crowns and dips in the head, jambs or sill.

• Secure the full perimeter of the window unit with countersunk # 8 x 2" Flat Head Sheet Metal Screws with masonry anchors, if required, at twelve inches (12") maximum on center. In each direction from the corners, there must be a fastener within six inches (6"), but not closer than three inches (3"), to prevent frame distortion or fracture of joint seals. (Note: Operable windows require additional fasteners located within one inch (1") each side of, and in the same plane as the hinge or pivot.)

• Seal all fastener heads during installation with compatible sealant.

• Great care should be taken when anchoring the sill in order to ensure that an unsealed penetration is not created in a hidden cavity.

• Recheck the window unit for level, plumb and square. Check the operation of the window (if applicable) that it operates smoothly without any binding and the locks are able to engage completely.

• On the interior and exterior of the window unit, apply a backer rod and a continuous bead of appropriate sealant to the entire joint between the window frame and the building structure. Apply the sealant carefully to ensure a completely watertight seal.

• Refer to the separate "CARE & MAINTENANCE INSTRUCTIONS" regarding the proper cleaning and care required for the window frame, glass and components. (Note: The "CARE & MAINTENANCE INSTRUCTIONS" document provides important information regarding protecting the window product immediately after installation and during the building construction process.)

Refer to "AAMA Installation Masters" or applicable ASTM standards for additional detail or clarifications. Installation of RAM products must be in accordance with the standards set forth in ASTM E 2112. AAMA, ASTM and/or EIMA guidelines supercede these instructions.

The key to any window installation is preparation. Careful planning and attention to detail can help ensure the installation of a properly functioning window.