

FWI 1000 Series Aluminum Impact Single Hung window Installation instructions

1.0 Installation Preparation (New Construction)

- 1.1 Remove shipping materials from the window. Remove screen and set aside in a safe location.
- 1.2 Ensure window is complete and ready for installation.
- 1.3 Measure the window opening, verify dimensions are correct and opening is level and plumb, sufficient to allow proper installation of the window. Ensure it is free from debris and is dry to accept an approved sealant caulk ("caulk").
- 1.4 If the opening is a masonry opening with 1x4 pressure treated lumber ("bucks") and pre-cast concrete sill, ensure there are no voids between the bucks and masonry. Fill voids, seams with caulk where needed. If the installation requires an additional exterior perimeter caulk, apply a generous bead of caulk the outer edge of the bucks, where it attaches to the masonry block. Tool caulk until it seals the seam between the masonry block and buck, and covers the outer edge of the bucks. Proceed to section 2.0.
- 1.5 If the window is to be installed into a framed wood opening, ensure that it is also properly wrapped, taped and flashed (by others) per current building codes. Proceed to section 3.0.

2.0 Installation, Masonry Flange

- 2.1 If installing a slip-on fin window, skip and proceed to section 3.0.
- 2.2 If installing a one-way mulled unit, skip and proceed to section 4.0.
- 2.3 If installing a two-way mulled unit, skip and proceed to section 5.0.
- 2.4 Apply a generous bead of caulk to the window sill, where it mates with window sill flange. Apply a generous bead of caulk to the inside edge of the window flange, caulking both jamb and head flanges.
- 2.5 Place window into the opening, applying firm pressure until caulk is squeezed from behind the flanges. Temporarily tack the window into place with one or two screws in the frame head.
- 2.6 Close sash and lock. Place a small level on top of the sash lock rail. Set level, by placing a shim under the window where the jamb meets the sill. Check for plumb. Note: The sash guides may be removed to gain better clearance for installation holes located behind the spiral balancers. Once sash guides are removed, set them aside in a safe location along with their assembly screws. With one hand, hold balancer to one side while drilling and installing fasteners to prevent damage to the balancer and balancer covers. Install the remaining fasteners and shim accordingly as outlined per current EAS Florida Product Approval. Finish by removing the temporary screws and installing the permanent fasteners. Replace sash guides, being careful not to strip out the assembly screws. Do not over tighten.
- 2.7 Open and close sash, check sash locks to ensure proper operation. It should not bind or have unsightly reveals when properly installed.
- 2.8 Check the exterior flange and tool smooth any excess caulk.
- 2.9 Check for voids (daylight) between the window flange and buck and re-caulk as needed.
- 2.10 Close the sash and lock it when installation is complete.

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3.0 Installation, Slip-on Fin

- 3.1 Fin windows that are intended to be mulled can be ordered with a flange head or jamb(s) to facilitate installation.
- 3.2 If installing a one-way mulled unit, skip and proceed to section 4.0.
- 3.3 If installing a two-way mulled unit, skip and proceed to section 5.0.
- 3.4 Apply a generous bead of caulk around the entire exterior perimeter, $\frac{3}{4}$ " from the edge of the opening. Ensure there are no voids or gaps in the caulk bead. Apply caulk to all four corners, where the window frame and slip-on fin meet, filling any gaps.
- 3.5 Place window into the opening, applying firm pressure until properly seated in the caulk. Shim bottom of window, where the jamb meets the sill, to achieve level. Tack the window on one side through the fin with a single fastener, next to where the meeting rail and jamb meet. Check again for level, and then repeat for the other side. Check for plumb and continue to finish attaching the window with the approved fasteners. Refer to latest EAS Florida Product Approval for fastener locations.
- 3.6 Open and close the sash, check sash locks to ensure proper operation. It should not bind or have unsightly reveals when properly installed.
- 3.7 On mulled fin units, ensure mulls and clips are thoroughly caulked to seal any exposed voids. The top of a vertically mulled unit should have a drip edge "Z flashing" installed (by others) to shed water.
- 3.8 Exterior fins may now be taped (by others) when required, according to approved methods outlined in current building codes.
- 3.9 Close the sash and lock it when installation is complete.

4.0 Installing One-Way Tube Mullion with H clips

- 4.1 Mullion ("mull") must be installed prior to installing windows. When installing mulled units, ensure the opening dimensions are sufficient to accommodate the finished assembled unit and allows for proper level and plumb.
- 4.2 Drill installation holes on each leg of the H clips. Countersink each of the installation holes to accommodate the use of approved flat head fasteners that, when installed, are flush with the clip. Refer to the latest EAS Florida Product Approval for fastener types and attachment locations.
- 4.3 When installing a vertical mull, measure and mark the header buck and sill to determine the proper location for the mull to be installed. For horizontal mull, measure and mark clip locations on each jamb buck.
- 4.4 Insert one clip in each end of the tube mull. Place mull with clips into opening and temporarily tack both mull clips with a single screw. Adjust for plumb (or level if a horizontal mull) if needed. Attach with approved flat head fasteners. Ensure mull is plumb or level before proceeding.

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- 4.5 Apply caulk to ends of the tube mull to fill voids. Windows can now be installed. Note: The FWI 1000 Series Single Hung flange window is attached to the mull with a #14x3/4 flat head or oval head self drilling screw.

5.0 Installing Two-Way Tube Mullions with H and U clips

- 5.1 Mullions ("mulls") must be installed prior to installing windows. When installing a two-way mull system, there will be a unit of two or more mulls that intersect and are to be installed with both H clips and U clips. Refer to the latest version of the EAS Florida Product Approval for fastener types and attachment locations.
- 5.2 Lay out the mulls, measure and mark the locations where intersecting mulls will be attached to the primary (longest) mull. Attach the U clip(s) to the primary mull.
- 5.3 Fit the mulls together, install the H clips on the ends of the mulls that will be attached to the opening.
- 5.4 Measure and mark the opening for their corresponding clip locations.
- 5.5 Lift mulls into opening and temporarily tack the primary mull clips into place with a single screw, then tack the remaining mull clips in the same manner.
- 5.6 Attach the primary mull with approved fasteners, ensuring it is level or plumb. Repeat process for the remaining mull(s) until the unit is completely attached. Ensure level or plumb of all mulls when completed.
- 5.7 Apply caulk to the ends of each tube mull to fill voids and tool smooth where mulls intersect. Windows can now be installed. Note: The FWI 1000 Series Single Hung flange window is attached to the mull with a #14x3/4 flat head or oval head self drilling screw.