

FWI 1000 Series Aluminum Impact Horizontal Roller 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 buck, 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 To gain easier access to the sill installation holes, remove the sash. The sash is removed by first removing the sash guide, attached with two screws. Set aside in a safe location. Then, lower the sash using the roller adjustment screws located at the bottom corners of the sash. Once lowered, the sash head should have clearance to tilt away from the frame head. Sash can now be lifted up and out of the sill. Set sash aside in a safe location.
- 2.5 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.
- 2.6 Place window into opening, applying firm pressure until caulk squeezes out from the flanges. Set level, by placing a shim under the window where the jamb meets the sill. Temporarily tack in place with one or two screws on the head. Check for plumb and shim accordingly. Install window with the appropriate shims and fasteners. Seal all sill fasteners with caulk. Note: A longer drill bit should be used when drilling through the sill and a longer screw tip to install fasteners. Use care not to damage fixed glass.
- 2.7 Re-install the sash, reversing the steps used to remove it. Adjust the sash until it rolls smoothly and to ensure proper reveals with the meeting rail and lock rail. Re-install sash guide, taking care not to strip sash guide screws. Do not over tighten.
- 2.8 Open and close sash, check sash locks to ensure proper operation. It should not bind or have unsightly reveals when properly installed.
- 2.9 Check the exterior flange and tool smooth any excess caulk.
- 2.10 Check for voids (daylight) between the window flange and buck and re-caulk as needed.
- 2.11 Close the sash and lock it when installation is complete.

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3.0 Installation, Slip-On Fin

- 3.1 Fin windows intended for mulling can be ordered with a flange head or jamb(s) to facilitate installation.
- 3.2 If installing a one-way mullied unit, skip and proceed to section 4.0.
- 3.3 If installing a two-way mullied 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. Or, it can be applied to the inside edge of the fin, in the center, on all four sides. Ensure there are no voids or gaps in the caulk bead.
- 3.5 Place window into the opening, applying firm pressure to spread caulk between the fin and framed opening. Shim bottom of window, where the jamb meets the sill, to achieve level. First, tack the window through the top fin with a single fastener, next to where the vertical meeting rail and head meet. Check again for plumb, and then repeat for the sill. Re-check for plumb and continue to finish attaching the window with the approved fasteners. Refer to current EAS Florida Product Approval for fastener type and 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 mullied fin units, ensure mulls and clips are thoroughly caulked to seal any exposed voids. The top of the vertically mullied 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 mullied 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 type 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 clip into opening and temporarily tack both mull clips in place 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 Horizontal Roller 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 Horizontal Roller flange window is attached to the mull with a #14x3/4 flat head or oval head self drilling screws.