
Installation Instructions

SERIES 410

Fixed Windows

- Page 2: *Opening Preparation and Wood Buck Installation and Figure 1*
- Page 3-5: *Installation Instructions for Series 410 WINDOWS and Figure 2*
- Page 6: *Figure 3: Installation type "A"*
Figure 4: Installation type "B"
- Page 7: *Figure 5: Installation type "C"*
Figure 6: Installation type "D"
- Page 8: *Figure 7: Installation type "E"*

NOTE: Read instructions completely before attempting any installation.

These instructions are provided as a general guide in the installation of our Series 410 Fixed Windows. Applicable approval documents (such as, but not limited to, Miami-Dade County NOA Product Approvals, State of Florida Approvals, TDI Approvals, etc.) should be used in conjunction with these instructions. Only experienced installers familiar with these or similar products should attempt to install these units. Refer to CGI Series 410 Design Guide for further information & details pertaining to these products. Incorrect installations could void the warranty.

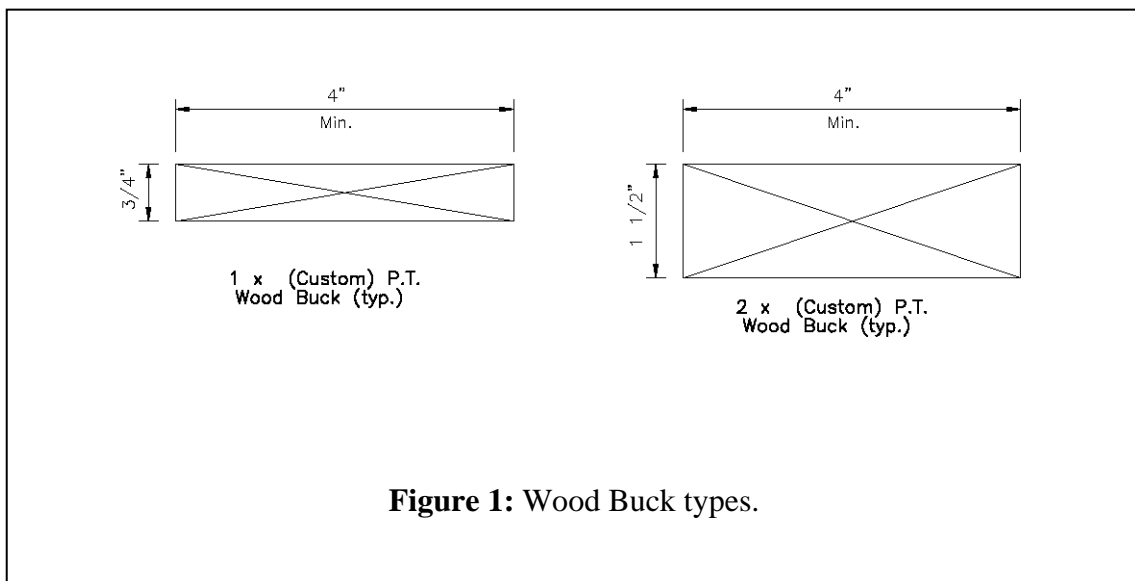
Technical support is available by contacting CGI at 305-593-6590 (Miami) or 1-800-442-9042



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OPENING PREPARATION AND WOOD BUCK INSTALLATION

1. Make sure that masonry opening (or rough opening on stud construction) is made to within tolerance, level and plumb. Verify by measuring at each end and every 24" (vertically and horizontally). Make any corrections required to openings. Bucks must be set on a smooth and flat surface. Remove or chip away any concrete, which protrudes from the face of the opening prior to setting bucks. Make sure ends of masonry opening are square and not rounded at corners. Chip concrete if necessary.
2. Select the size of Pressure Treated wood buck to be used (see *figure 1* or refer to Miami-Dade County Product Approvals for approved bucks) and decide how far from the face of the wall the bucks are going to be set. Most contractors like to set the wood bucks in about 1" to 2" from the exterior face of the 8" concrete walls when installing windows.
3. Set wood bucks in a continuous heavy bed of professional grade sealant. Make sure sealant is applied at ends where bucks touch one another. Run a continuous bead of sealant on exterior side of bucks between concrete and wood, after installing bucks.
4. Make sure wood bucks are installed continuous and on all four sides of the opening. Wood bucks must touch one another at ends.
5. Install wood bucks level and plumb in all directions. Verify that opening is square. Do not follow the walls, as many times they tend to be leaning in or out.
6. **Wood bucks must be secured to the structure, independently of the window.**



SERIES 410 FW WINDOWS - INSTALLATION INSTRUCTIONS

1. Check window opening for correct size. If the opening is incorrect, have it fixed. Never attempt to force a window into a small opening or install a window into an oversized opening.
2. Make sure wood bucks are of the correct size and type for the installation method being used (*see figures 3 through 6 - Installations Types A, B, C, D*). The bucks must be properly bed in sealant and securely attached to structure. Wood bucks should not be separated at corners. Verify that wood bucks are plumb, level and square. Note that Installation Type E (Equal Leg) does not require a wood buck.
3. If installing flange windows, clean window flange and apply a generous amount of professional grade sealant / caulking material to flange at full perimeter. Make sure the sealant is compatible and will adhere to aluminum and wood. If installing equal leg frames, the perimeter sealant is applied after step 6.
4. Stand window upright and install window from the outside on to the wood bucks.
5. Temporarily secure window frame using installation screws as selected from the Miami-Dade County Product Approvals for your specific application (*see figures 3 – 7*). To simplify the pre-installation process, you may want to use a smaller temporary screw such as a #12 Sheet Metal Screw and only penetrate the wood. Shim every installation screw snugly (ideally, shim space should not exceed ¼”). Temporarily secure the window with 2 or 3 screws per side. **DO NOT OVERTIGHTEN THE SCREWS.** Make sure window is plumb, level and square. **Caution: Any window, which is forced into an opening and racked or twisted, can eventually cause glass breakage.**
6. Once the window is correctly set, finish installing with the proper installation screws. If temporary #12 screws were used, replace those with the correct screws. Remember, **DO NOT OVERTIGHTEN THE SCREWS** as this can cause the frame to deform. Every installation hole must have a screw.
7. If installing mullion tubes between windows, make sure tubes are properly aligned on the window. The Series 410 Window Mullions do not require end clips. The proper mullion length is the same size as the interior window dimension. If you are mulling the 410 FW to a Series 238 Window (Fixed, Designer Fixed or Casement), a Series 360 Single Hung Window, a Series 375 Horizontal Rolling Window, a Series 450 Door, or a Series 560 Sliding Glass Door, then the mullions will require end clips that attach to the structure. Refer to the Series 238 installation instructions for the attachment of these mullions.
8. If the mullion being installed is long or the windows being mulled are large or the opening is located in a high windload area, additional installation holes may be required on each side of mullion, at the window sill and head member. Remember

- that these mullions do not have independent clips, so their anchorage is transferred to the window frames. The CGI Standard Hole Pattern includes one installation hole at each end of the sill and head members. Certain installations will require two or three screws on each side of the mullion. Refer to the Mullion Design Load Capacity Charts and the Mullion details in the Product Approvals to see if additional screws are required. These additional screw holes must be field drilled.
9. Make sure there is no daylight between wood buck and window flange. If any exist or as a precautionary step, apply additional sealant from the outside at this joint.
 10. Check window for leakage, especially on the frame joints. Although not normal, it may be necessary to reseal frame corners after installing. The factory applied sealant may get damaged during transport or installation of the window due to racking.
 11. Interior frame covers are provided for each window to cover installation screws. In order to clearly see the installation screws, installation of frame covers may need to be delayed until job is inspected; consult your building inspector prior to installation. Once inspected, covers can be installed. Install vertical covers first as they will run through. First, insert longer end into glazing stop channel. Then, forcibly snap the end of the cover into frame. Note: Insulated glass will use the same frame cover; frame has two snap legs for laminated or insulated laminated glass. The cover may need to be snapped into the frame with a rubber mallet. Do not use a hammer directly on the covers; this will damage the aluminum! See Figure 2 for cover installation.

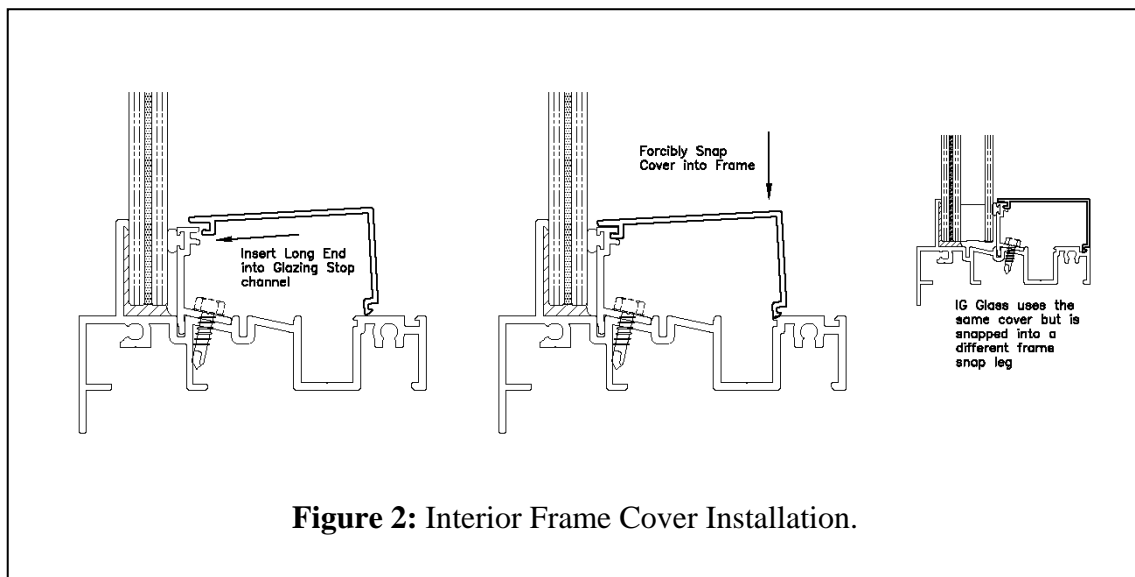


Figure 2: Interior Frame Cover Installation.

RECOMMENDED INSTALLATION SCREWS (refer to Product Approvals) :

Window attachment to structure	Based on installation type used. Refer to figures 3 through 7 in these instructions for the minimum screw size recommended in installations type A, B, C, D or E. Also, refer to Miami-Dade County Product Approvals since some conditions may require 5/16" anchors.
Window to mullion screws	#14 x 3/4" "B" Point SMS Stainless Steel or #14 x 1" Lg. Flat Head Teks Stainless Steel

