Installation Instructions --
2450 Series Storefront Framing

Introduction:

These instructions have been prepared to assist you in properly erecting and glazing storefront. It is important that storefront framing be installed with great care and attention to attain their specific performance and function.

The success of an installation is dependent upon:
1) Handling of the storefront prior to installation.
2) Installation of the frame in the opening.
3) Installation and/or adjustment of hardware.

Job site storefront frames are shipped from the factory as finished products or in stock lengths. After the frames are received, they must be protected from damage during storage at your facility and during transit to the openings. You must prevent dropping or walking the frames to prevent severe racking and corner joinery problems that cannot be rectified in the field.

Keep frames away from standing water, mud and spray to avoid later cleaning problems. It is especially important that rain, snow or ice be kept away from frames with hard coat finishes. Protect the frames after erection by wrapping with Kraft paper or by erecting a Visqueen or canvas screen. Cement, plaster, terrazzo and other alkaline solutions will harm the finish and must be immediately removed with water and mild soap.

When transporting the frames, they must be adequately blocked and secured.

Important
Before attempting to install the framing, make certain that the opening is the correct size. It should be square and free of any protrusions. All unacceptable conditions must be corrected before installation begins.

Wherever aluminum comes in direct contact with steel (or other dissimilar metals), concrete, mortar or plaster, a protective coating of zinc chromate primer, bituminous paint or tape mastic must be applied to the contacting surfaces.

In this section:
Handling & Transport 1
Checking for Level & Plumb 2
Through-frame installation 3
Sub-framing: Head/Jamb & Sills 3.4
Glazing instructions 4

PLEASE NOTE
Images and text are shown as 2450 Series.
All Storefront instructions are the same for all systems.
Checking Framing for Level and Plumb during installation--
(refer to figure 1)

Whether the frame was installed by through-frame attachments or with compensating sub-framing; the frame must be level and plumb. When using a 1-piece or 2-piece head receptor, jambs must be pinned with self drilling screws so as not to allow frame to float in the opening. The sill is extremely critical and must be level and true from jamb to jamb and solidly anchored. Jambs must be plumb and corners square. The frame must be properly shimmed and securely fastened. If verticals are used in the frame; the 2430 snap in piece must go in one way. The thermal break of 2430 must not hit the thermal break of part 2451.

Measure frame diagonally from corner to corner. The measurement must be the same. Vertical measurement at the center must be exactly the same at each jamb. Horizontal measurement at the center must be exactly the same at the head and sill. Use a long level as much as possible. Place end of level against jamb, head and sill. Fasteners must be installed so as not to twist frame.

FIGURE 1

[Diagram of checking for level and plumb]
Installation of Frames into--
Sub-framing (optional head receptor)

Sub-sill only (required at exterior frames):
1) (refer to figure 2) Start at the sub-sill. Before placing the sub-sill into the opening, end dams MUST be applied to each end of the sub-sill. Apply sealant to end of the sub-sill and place an aluminum plate (height of sub-sill) to each end of the sub-sill.
2) (refer to figure 3) Place the sub-sill into the opening. The sill must be level, shim if necessary. Place the sill into a bed of sealant. Place sill screw head(s) into sealant to prevent leakage onto substrate. Place all screws at 16" on center or locate per job requirements.
4) (refer to figure 3) Place the assembled main frame into the opening. Start by placing the frame onto the sub-sill and tilting it into the opening. Shim the head and jambs. Place screws into the frame through the shims. Apply sealant to both sides of the framing all the way around.

Sub-sill and 1-piece head receptor:
1) (refer to figure 4) After the sub-sill is in place. Apply sealant to the top of the head receptor and place into the opening. Place screws at 16" on center or locate per job requirements.
2) (refer to figure 4) Place the assembled main frame into the opening. Start by placing the frame up and into head receptor and placing it down onto the sub-sill. The main frame should overlap the head receptor by 3/4". Shim the jambs. At the jambs place screws into the frame through the shims. Apply sealant along both sides of the head receptor channels. Apply sealant to both sides of the framing all the way around.

Sub-sill and 2-piece head receptor:
1) (refer to figure 4) After the sub-sill is in place; place bulb rubber into the channel on #2442. Apply sealant to the top of the head receptor (2442) place into the opening. Place screws at 16" on center or locate per job requirements.
2) (refer to figure 5; pg4) Place the assembled main frame into the opening. Start by placing the frame onto the sub-sill and tilting it into the opening. Shim the head and jambs. Place screws into the frame through the shims. The main frame should overlap the receptor by 3/4".
3) (refer to figure 6; pg4) Place bulb rubber into the channel on the snap-on cover (841). Slip the snap-on cover (841) onto the interior receptor. Ensure that the cover has snapped in completely. Run a bead of sealant along exterior side of the snap-on cover.

Apply sealant to both sides of the framing all the way around.
Glazing instructions--

Setting blocks

For all frames: (refer to figure 8) With frame installed in opening. Place setting blocks at quarter points of glass width at the sill. Blocks must be a minimum of 3" long (consult glass manufacturer's requirements for your specific application).

For all storefront framing:

1) Install storefront framing into the opening first.
2) Place glazing gasket into the interior gasket channel at head, jambs and sill.
3) Place setting blocks into sill locations [where glass will sit on top of setting blocks].
4) Install glass (units or single pane): Place glass up and into the head pocket [4-1], then down onto the setting blocks [4-2].
5) Snap the glass stop into the main frame.
6) Place glazing gasket into the glass stop on the exterior of the glass unit.

NOTE:
1) Setting blocks used with single lites must be at least as wide as the glass thickness to provide proper glass bite.
2) Setting blocks used with insulating glass must be 1/8" wider than the width of the glass unit. The height of the setting blocks vary with each application.