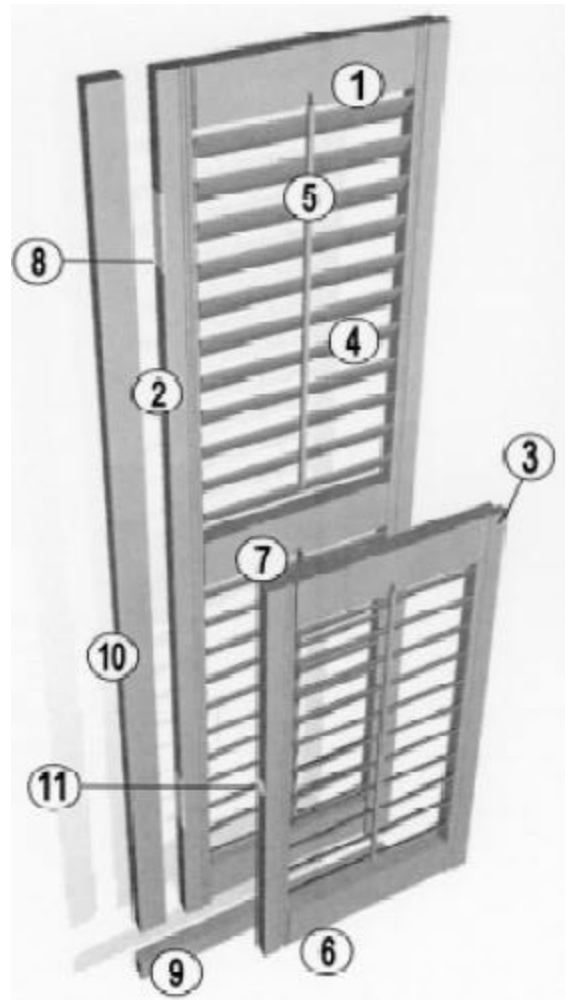




Shutter Terminology

In order to communicate more clearly, we have provided this labeled diagram to help you understand the terminology used in the shutter-manufacturing.

1. Top Rail - Upper horizontal component of the panel.
2. Stiles - Vertical component of the panel.
3. Astragal or Rabbeted Stile - Creates light block between openings with multiple panels.
4. Louvers - Horizontal slats available in different sizes, which open and close using the tilt rod.
5. Tilt Rod - Vertical wood bar attached to louvers by staples. Used to open and close louvers.
6. Bottom Rail - Lower horizontal component.
7. Divider Rail - Divides panel into more than one louvered section.
8. Self Mortised Hinge
9. Light Strip - Horizontal piece of frame that blocks light.
10. Frame - Factory mitered frame.



11. Tension Adjusters - Used to adjust tension of louver.

One on each side of tension louver.

Outside Mount Measuring Instructions

To assure proper fit, accurate measurements are crucial for a trouble free installation.

Always use a steel tape measure.

Always round to the nearest 1/8".

Always verify the window depth for proper clearance.

Outside Mount

This is the most popular mounting for shutters.

The frame and shutter are installed on the wall around the outside of the window. There must be sufficient flat mounting surface around the window opening.

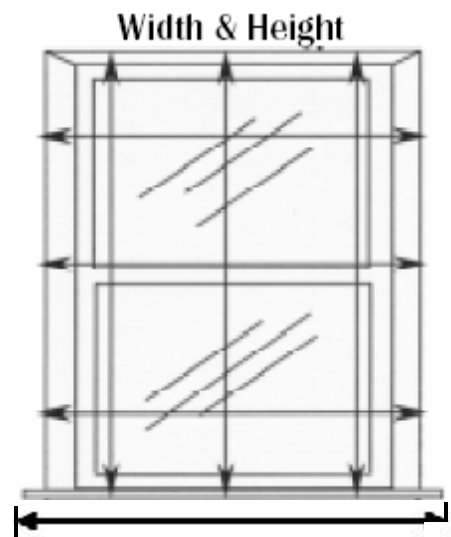
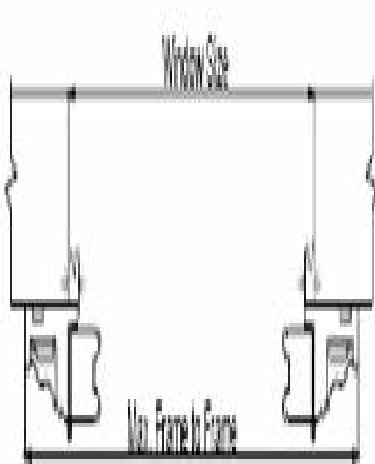
If there is existing trim surrounding the window opening, the frame of the shutter can be either mounted around the outside of it (provided sufficient space) or mounted on top of trim.

This type of mounting is most effective in correcting off-centered or out of square openings.



Width: Record 3 measurements for top, middle and bottom of the window opening. (For rounded drywall measurement should be to the **outside** edge of the bullnosed corner.)

Height: Record 3 measurements for the left, center and right of the window opening. (For rounded drywall measurement should be to the **outside** edge of the bullnosed corner.)



FOR OUTSIDE MOUNT APPLICATION PLEASE PROVIDE THE *LARGEST* MEASUREMENT FOR BOTH WIDTH AND HEIGHT ON YOUR ORDER FORM.

Inside Mount Measuring Instructions

To assure proper fit, accurate measurements are crucial for a trouble free installation.

Always use a steel tape measure.

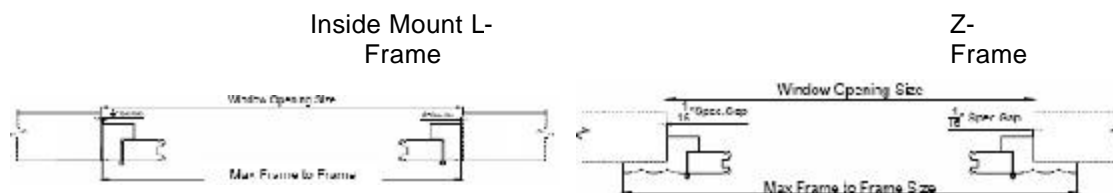
Always round to the nearest 1/8".

Always verify the window depth for proper clearance.

Inside Mount and Z-Mount

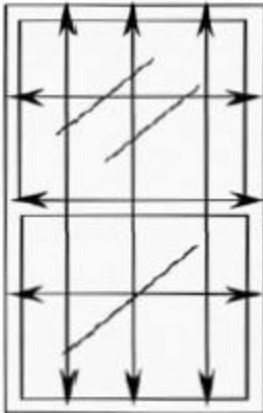
The frame and shutter are installed inside of the window opening. (Z-Frames overlap the opening providing an inside/outside application. Please check for sufficient flat mounting surface for your Z-frame profile.)

This type of mounting **will not** aid in correcting off-centered or out of square openings.

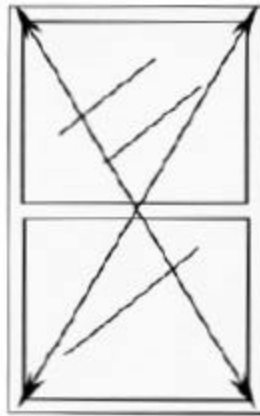


- Width:** Record 3 measurements for top, middle and bottom of the window opening.
- Height:** Record 3 measurements for the left, center and right of the window opening.
- Square:** Measure window diagonally from upper left corner to the lower right corner and then upper right to lower left. **If the two measurements differ by 1/2", you will have to use an outside mount application.**
- Depth:** For all inside mounts, the depth of the window opening must also be measured to make sure that there is enough clearance for proper louver movement.
- Check the Louver Sizes depth chart for required clearance.

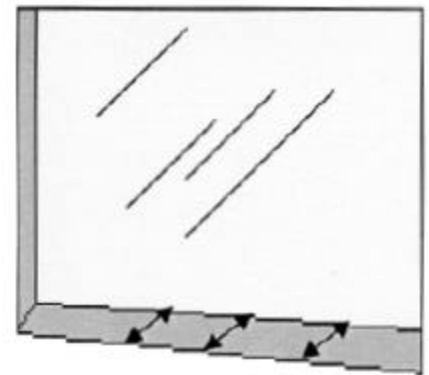
Width & Height



Check for Square



Check for Depth



FOR INSIDE MOUNT APPLICATION PLEASE PROVIDE THE *SMALLEST* MEASUREMENT FOR BOTH WIDTH AND HEIGHT ON YOUR ORDER FORM.

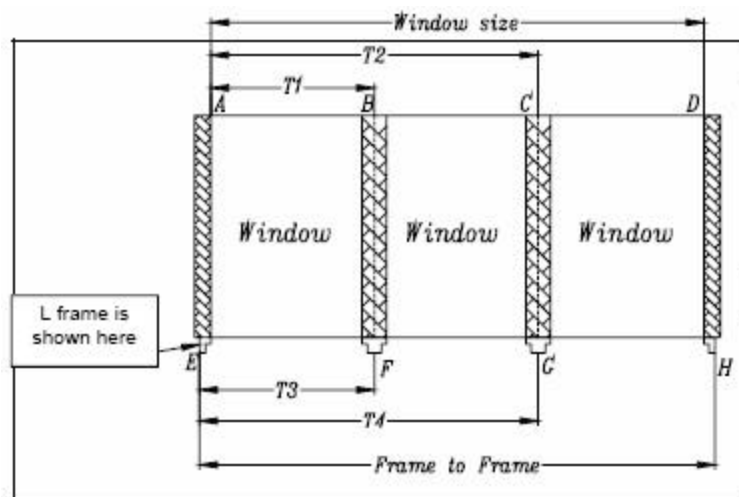
Measuring for T-Posts

T-Posts divide a window vertically into sections.

T-Posts can be used to match the design of a window that has a natural break, a mullion, or to accommodate wider openings.

T-Posts can be used with any frame style.

Custom T-posts are available to accommodate wider mullions.



Measuring T - Post location for Window Opening

1. 1st T - Post = measure point A to point B
2. 2nd T - Post = measure point A to point C
3. Measure from point A to point D for the overall Window Size.

Measuring T - Post location for Frame to Frame

1. 1st T - Post = measure point E to point F
2. 2nd T - Post = measure point E to point G
3. Measure from point E to point H for the overall Frame-to-Frame Size.

****Special Notes:**

For Window Size, measure from the left side of the window opening to the center of the T-Post location. (Measurement B)

For Max Frame to Frame measure from the outside edge of the **frame** to the center of the T-Post Location. (T3)

For Multiple T-Posts measure T-Post from the far left to the center of each T-Post location.

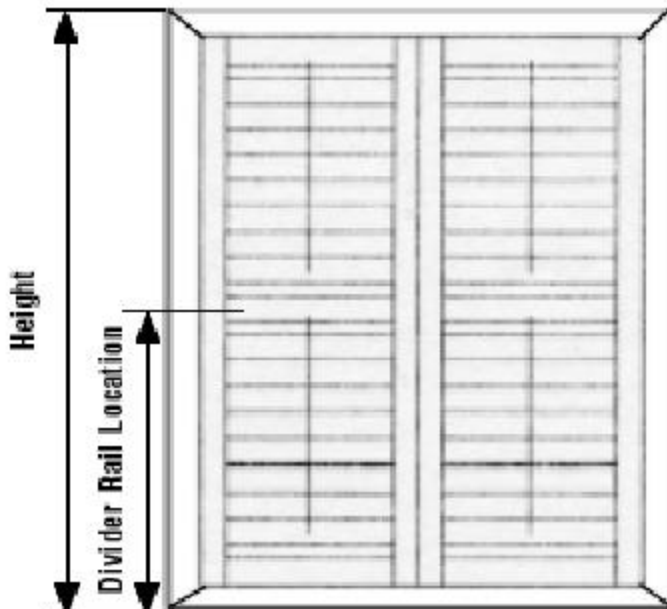
For openings over 104" wide T-Post(s) will be required.

Standard T-Post width is 1 1/2". If 1" T-Post is desired, please note in Special Notes section of the order form.

Custom T-Post widths are available for a surcharge.

Measuring for Divider Rails

Divider rails are used to divide a panel into two horizontal sections. This can be requested for aesthetic purposes or it may be required to ensure that the shutter panels and louvers work properly. Divider rails are also used to match the continuity of a window that has a natural break or mullion in the existing window. Each louver section is operated independently and gives you more light control over your shutters.



Shutter panels that exceed 84" in height require a divider rail.

Divider Rails are 3" wide.

Divider rails can be placed in any specified location on panels.

- Max Frame-to-Frame is measured up from the **bottom of the frame** to the middle of the divider rail location.
- Window Size is measured up from the **bottom of the window opening**.
- If the divider rail location is specified at center, the divider rail will be place in the center of the panel for both Max Frame to Frame or Window size provided.
- DIVIDER RAIL LOCATION MAY VARY ACCORDING TO LOUVER SIZE.

DIVIDER RAIL LOCATIONS MAY DEVIATE FROM SPECIFIED LOCATION BY PLUS OR MINUS 2".

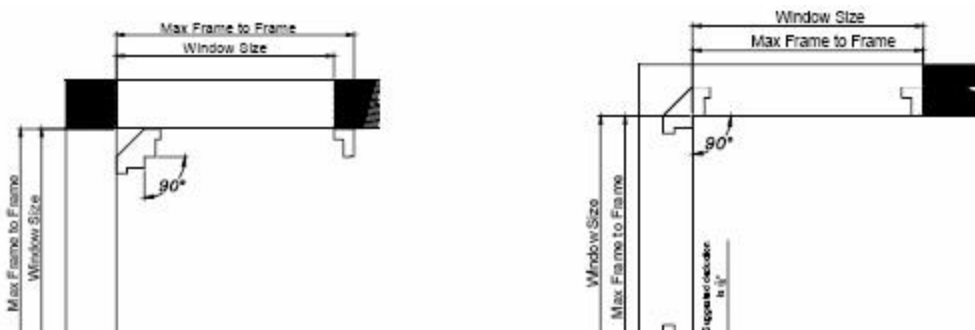
Measuring for Corner Windows

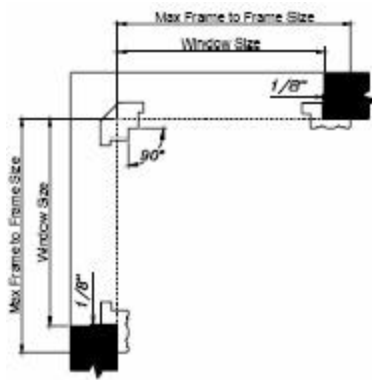
Corner Post Shutter is made as a single unit with a corner post connecting both sections together.

Standard angle is 90 degree angle. (Custom angles are available for a surcharge.)

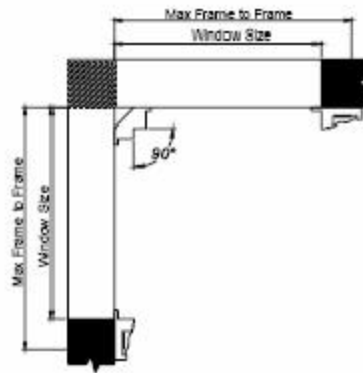
Please note:

Widths will be different at different depths in the window. Please measure the area where the frame will be mounted.





Z Frame Inside Mount
(Continuous Corner Window)



Deco Frame Outside Mount
(Corner Window with a Break)

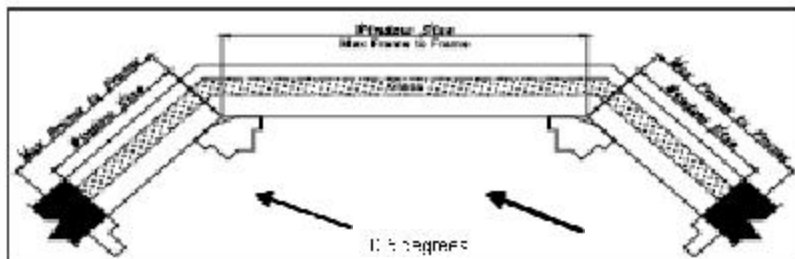
Measuring for Bay Windows

Bay Window Shutter is made as a single unit with a bay post connecting the sections together.

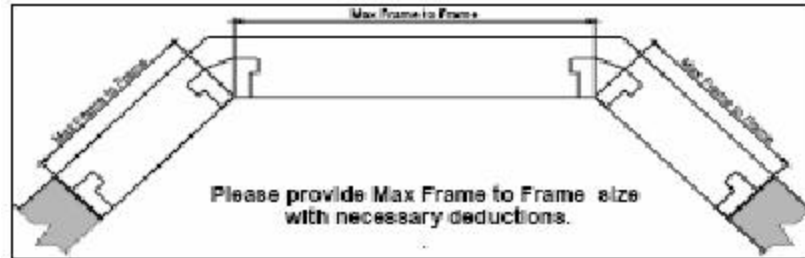
Standard angle is 135 degrees (Custom angles are available for a surcharge.)

Please note:

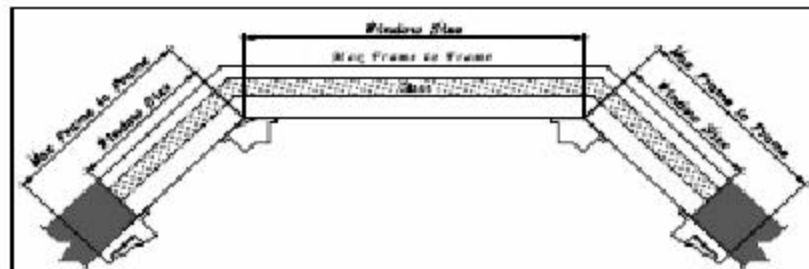
Widths will be different at different depths in the window. Please measure the area where the frame will be mounted.



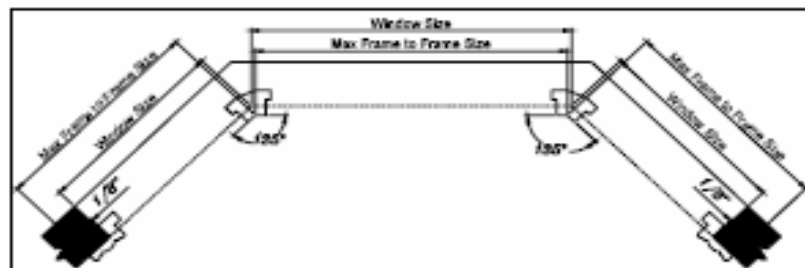
L Frame Outside Mount



L Frame Inside Mount



Deco Frame Outside Mount



Z Frame Inside Mount

Measuring for Special Situations

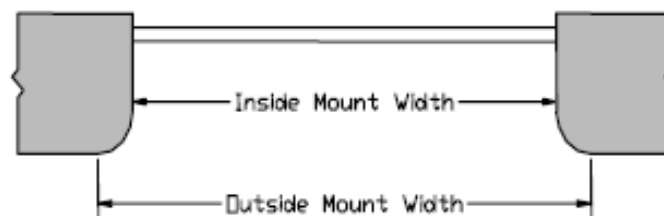
When there is an obstruction:

- For corner/side-by-side window, or when there is obstruction such as cabinet or wall, Max Frame to Frame measurement is preferred.



When there is a **bullnose wall**:

- ◊ Place frame on the flat part of the wall (where the curve ends) for both OM and IM width as shown below.
- ◊ Please provide the smallest measurement for IM.



*** Please measure from the point where bullnose ends and flat wall begins.

Measuring for Molding Casing and Trim

For windows with **molding, casing** or trim:

- ◊ Frame can be placed on the **molding** or beside the **molding** (see drawing below).
- ◊ Please provide **Max Frame to Frame** measurement.

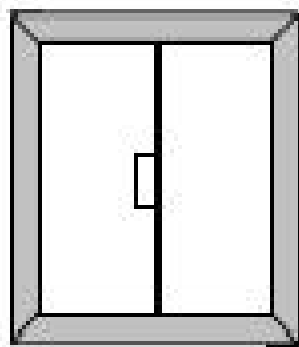


Frame & Louver Detail

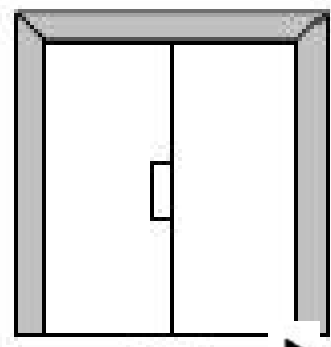
The following are examples of Frame Detail which will be noted on your order form. For deco and Z-frames a sill plate will be substituted for the full frame on the missing side. The sill plate is added for magnets, support and light block.

Please note that the finished frame dimension will be from the outer edge of the sill plate to the outer edge of the opposite frame. (See below)

If sill plate is not needed (or required for support) Note this in frame detail. (i.e. NBF= No bottom frame.)

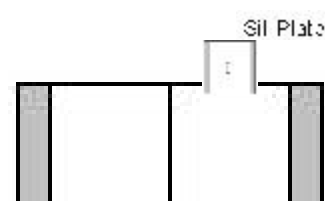
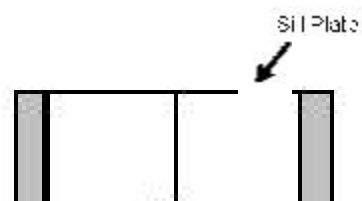


Frame Detail = 4



Frame Detail = 3B

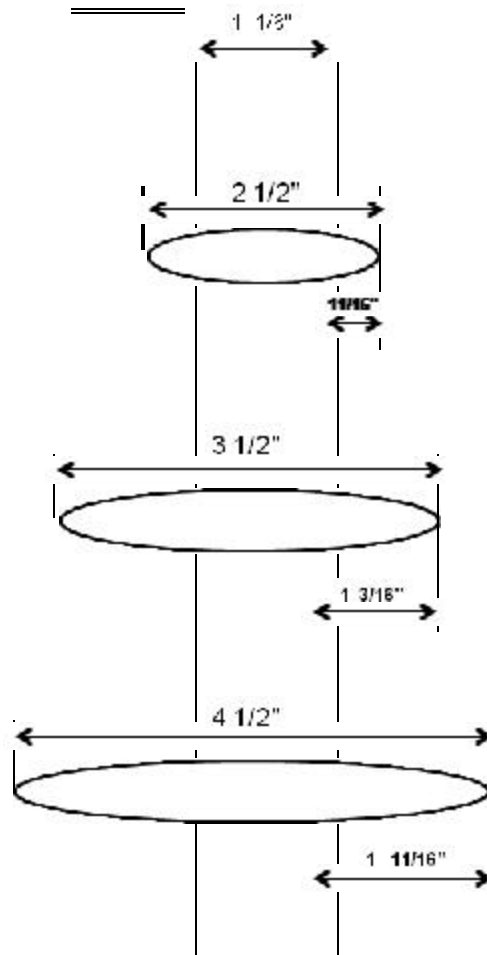
Sill Plate



Louver Sizes

- 2 1/2"
- 3 1/2"
- 4 1/2"

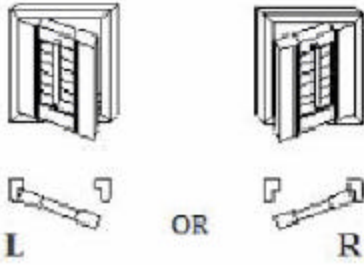
*See frame specs
for clearance



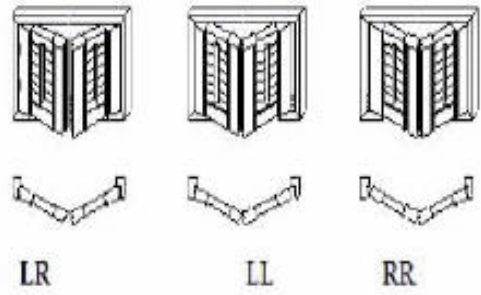
\$ = Surcharge (see surcharge page for details)

Panel Configuration

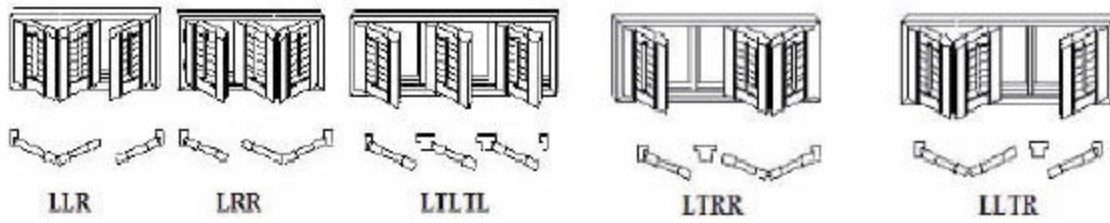
Single Panel



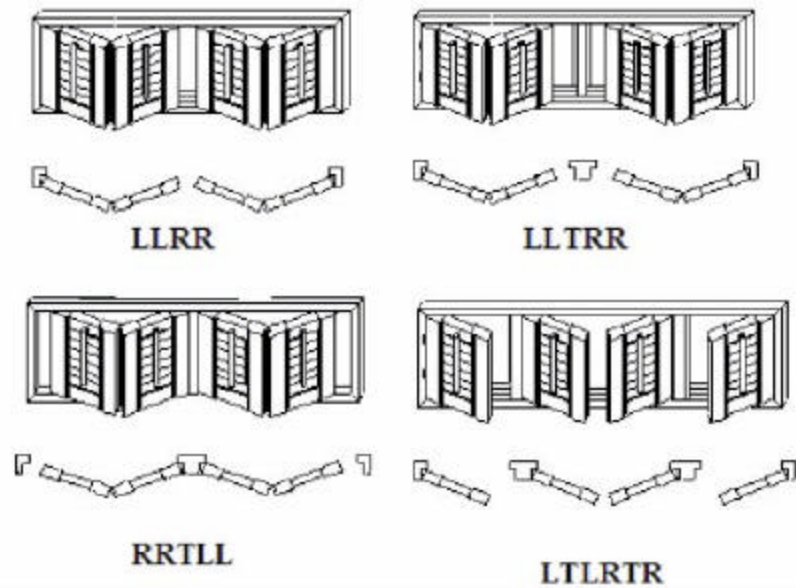
2 Panels



3 Panels

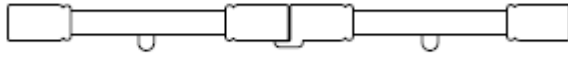


4 Panels

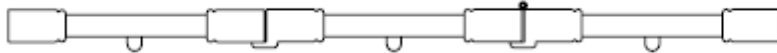


Astragal Stile Panel Configuration

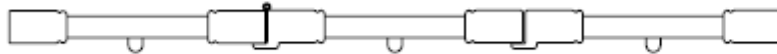
- ◇ 2 Panels – LR/LL/RR



- ◇ 3 Panels - LRR



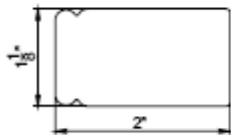
- ◇ 3 Panels – LLR



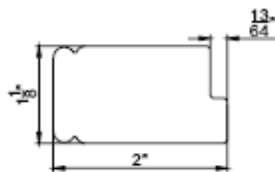
- ◇ 4 Panels - LLRR



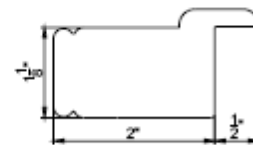
Stiles



2" Butt Stile



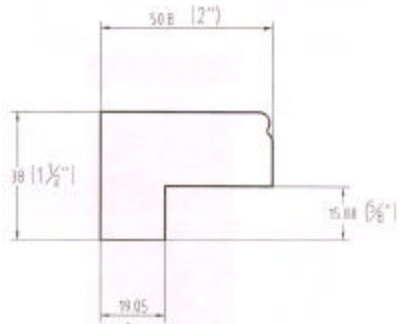
2" Rabbet Stile



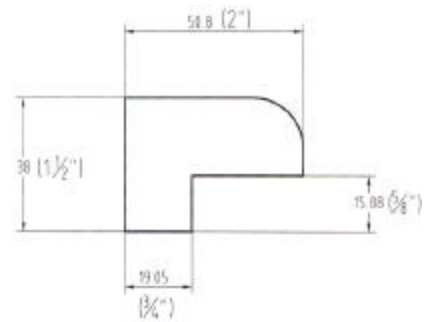
2" Astragal Stile

Framing

Beaded L-Frame

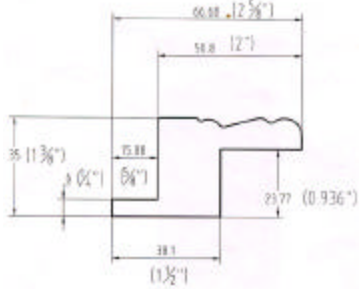


Bullnose L-Frame



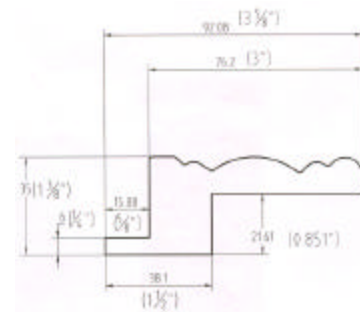
Deco Sill Plate

2" Z-Fine Frame

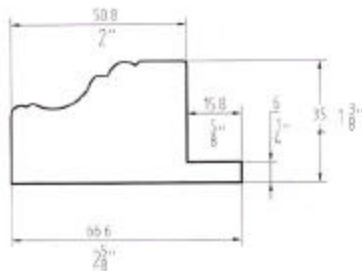


2" Bullnose Z-Frame

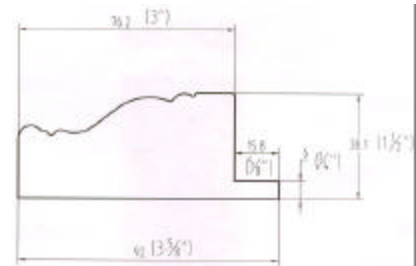
3" Z-Crown Frame



2" Deco Frame

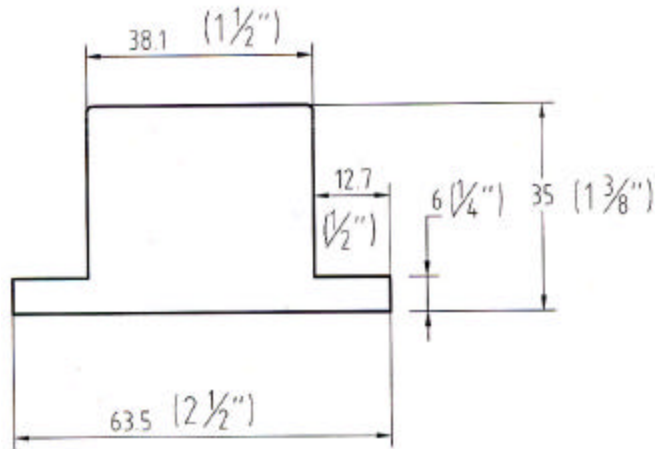


3" Deco Frame



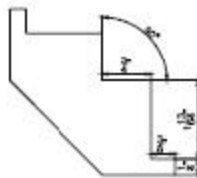
Alternative Framing

T-Posts (Custom T-Post available for surcharge)

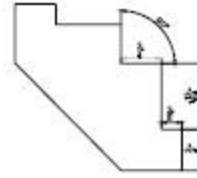


Corner Posts

Corner Post w/ 1/4" Thick Light Block

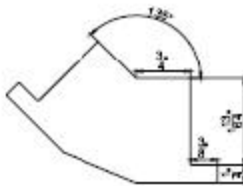


Corner Post w/ 1/4" Thick Light Block

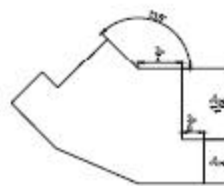


Bay Posts (custom angle available for a surcharge)

Bay Post w/ 1/4" Thick Light Block

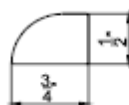


Bay Post w/ 1/4" Thick Light Block

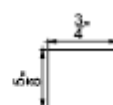


Scribe and Light Block available for additional finishing (surcharge applies)

Scribe Trim



Light Block



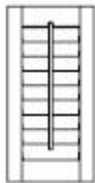
General Specifications

Description		Minimum	Maximum
Single Panel Width		8"	35"
Single Panel Width (Bifold)		8"	26"
Single Panel Height		10"	96" *
Shutter Width (No T-Post)		N/A	96"
Shutter Width (T-Post)		N/A	Unlimited (framing is spliced over 142")
Shutter Height		N/A	133 + Frame

* Divider rail required

Tilt Rods

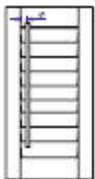
Standard Tilt Rod



Standard Location

In the middle of the panel on front side (Default)

Offset Tilt Rod*



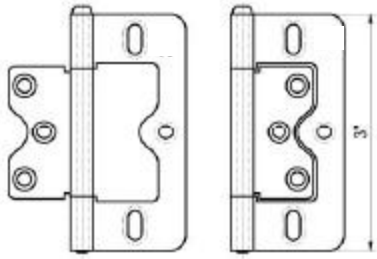
Standard Location

On the front side of the panel and at 1" from the louver ends on hinged side.
Optional location: per customer request

* Surcharges Apply

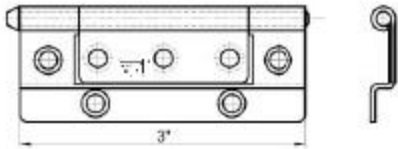
Hinges

3" Self Mortise Hinge



Used
for: Deco Frame
L-
Frame
Z-
Frame

3" Offset Rabbet Hinge



Used
for: Bifold Rabbet
Stile

Hardware Colors:

White
Off White
Antique Brass
Polished Brass

