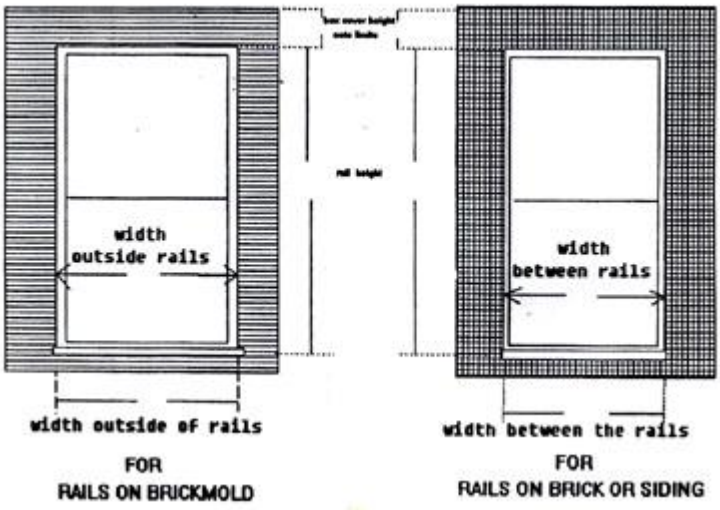
Measurement

Always state actual measurements to the nearest 1/8 inch and state the total size in inches.
There are 3 basic acres of concern when measuring:

- Width outside of rails
- Height of the side Rails
- Available height above the rail for the shutter box
- Where the control hole enters the building. (gear and strap systems)

1. Width of shutter



Be sure to the factory which way you measured.

2. Height of the side rails and box cover

The bottom of the rail starts on the sill of the window or the deck of a patio door. If the sill of the window needs an extension, request a sill angle with the order. Sill angle is available in 1 x 1.25 or 1.5 x 2 inch sizes.

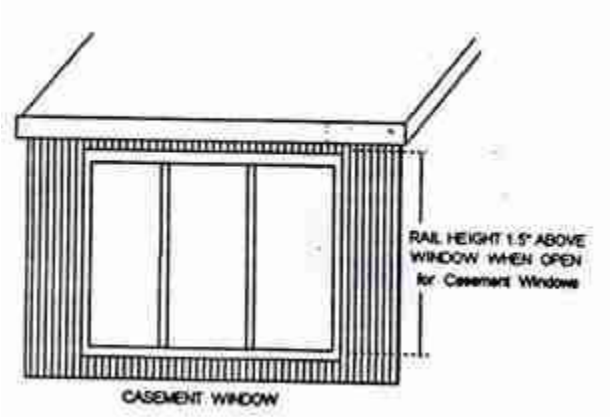
The top end of the rail should be to the top of the window trim or brick mold. Watch for several problems.

How much space is there above the window to the soffit?
Is it a casement window that opens like a door?
Does the area above the window project outward?

When the area above the window is limited, you can do one of three things.

- Lower the shutter box-- this may require a back cover on the box.
- Choose a style of shutter with a smaller slat to make the box smaller
- Install the shutter into the soffit

- or contact the factory for other suggestions



3. More on the Box Cover

The size of the box depends on two things.

- The height of the rails
- The size of the slat.

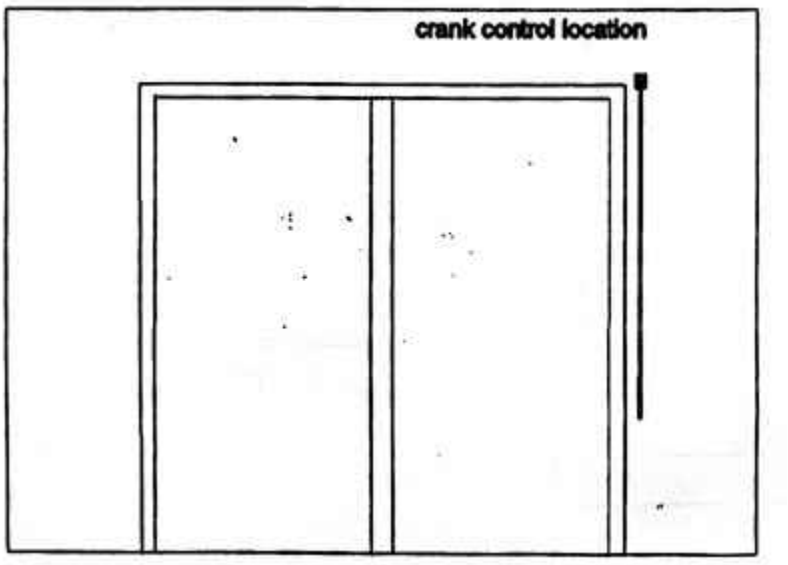
example: 84" tall rails
32mm PVC slat 7" box
42mm rolled formed alum slat 8" box
52mm PVC slat (2") 10.25 box

There are two styles of endcaps and how they relate to the rail.
Cast aluminum endcaps fit flush with the rail.
Pease V system with 1 3/4" rails have a 1 1/8" overheand to the side.
More details are located in the architectural brochure and price sheets.

4. Control Considerations

The control side is always determined from the inside -right to left.

It is best to make the shutter as wide as possible to keep the a manual control away from the wood trim. This is true with metal windows with outside trim.



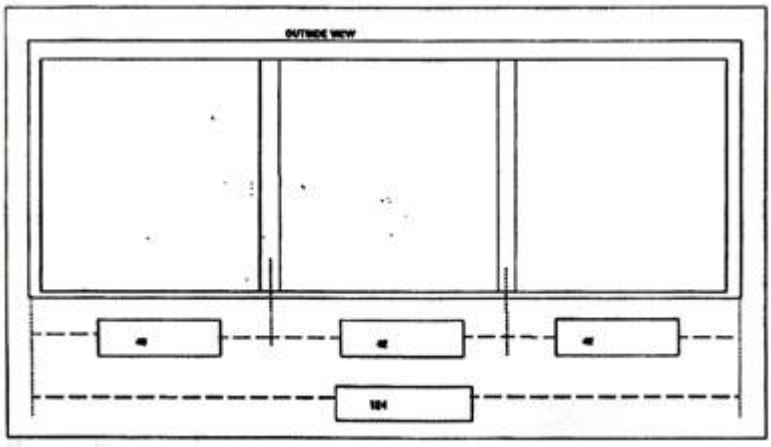
Inside patio door

5. Multi-panel shutters

Two awning windows side by side usually require one panel or an offset center reail to allow at least one window to open. The distance between the awning windows when open is almost always less than the width of the center rails.

Multi-panel shutters can have a control for each panel or one control for all the panels is the weight a given control can lift. This is usually not a problem for electric shutters.

Measurement of multi-panel shutters need to be drawn out as follows or use the back side of the order form.



Measure the *total width* including the space for the rail for a multi-panel shutter.

Measure each panel on center. Wheabelt will figure rail and mullion needs.

In shutters with total width of over 10 ft. or with multiple controls, a wider center rail is needed to support a carrier bearing or make room for the control. Center rails range from 3" for VM to 4 5/8" for the large slat V system.