

**NORMAN**<sup>®</sup>  
SHUTTERS. BLINDS. SHADES.



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Quality Wholesale Window Coverings  
Contract • Hospitality • Healthcare • Residential

# Normandy<sup>®</sup> Shutters

Program Reference Guide

2020

2020 Shutter Revision log



| Effective Date | Topic   | Section | Note   |
|----------------|---|---------|--|
| 2020/02/20     | Frame Styles,<br>Special Options,<br>Specialty Shapes | e,k,l   | <p>e: add content:<br/>Default principle:<br/>Regarding shutter with horizontal T-post type issue: Horizontal T-Post type will always be the Chamfer T post unless otherwise specified.</p> <p>k:<br/>1.Café Shutters add content:<br/>When the height of the framing material (including t-posts) exceeds the panel height, by more than 5", a surcharge will apply.</p> <p>2.Custom Colors add a new custom color deck " Benjamin Moore, Off White Collection M2451888TL"</p> <p>l: add contents for Specialties shutter</p> |

## 2019 Shutter Revision log



| Effective Date            | Topic   | Section           | Note  |
|---------------------------|---|-------------------|---|
| 2019/01/01                | Colors Option<br>Louvers Options<br>Frame Options | All except<br>j&o | 2019 updated specification  |
| Middle of<br>January 2019 | Motorized   | o                 | 2019 updated specification  |
| 2019/01/10                | Track   | j 2               | Add 3" louver for Open bypass   |
| 2019/02/01                | color   | e,i,n             | Add 6 new hinge colors<br>Change color coordination chart   |
| 2019/02/01                | stile   | c                 | Add stile options<br>Optional: Chamfer stile  |
| 2019/02/27                | Side magnet                                       | i                 | Add notes: if panels only with side magnets and there is no standard magnet on the back of panels, panels may open for external factors.  |
| 2019/03/01                | tracks  | j1, j2            | 2016 stopper Change Note:<br>Bifold track:<br>For 90° Floating Panels outside mount/semi-inside mount without side boards <del>but with fascia return</del> , the 2016 Stopper will be supplied by default. The gap between the fascia return / end of top track and the panel is 5mm each side.<br><br>Bypass track:<br>1 - Note: For Semi-Inside/OM bypass without side boards <del>but with fascia return</del> , 2016 Stopper will be supplied.<br>2 - Note: For outside mount/semi-inside mount bypass without side boards <del>but with fascia returns</del> , the 2016 Stopper will be supplied by default. The gap between the fascia return / end of top track and the panel is 5mm each side. |
| 2019/03/13                | New PerfectTilt<br>RF                             | O /j2 / k         | O: Revise Norman Dial (Remote) Dimensions :<br>68mm diameter x 21mm<br>j2: 2016 Track Shutters-Bypass<br>k: <del>Available in January 2017.</del>   |
| 2019/03/16                | New PerfectTilt<br>RF                             | O                 | Add comments of PerfectTilt G4 & groups   |
| 2019/04/09                | surcharge<br>notes                                | b,e,f,g,i,k,l     | <b>Change notes from</b> *Surcharge applies.<br>Please see Options and Surcharges page for details <b>to</b> *Some surcharges apply <b>on the bottom of a page</b>  |

2019 Shutter Revision log



|            |   |       |   |
|------------|---|-------|---|
| 2019/04/27 | New PerfectTilt RF  | o     | Hub note: change "It will be available in March 2019" to "It will be available soon"  |
| 2019/04/29 | Notch Out   | e     | Page8 Notch Out: The Beaded/Vintage L frame' s name and drawing were opposite.  |
| 2019/04/30 | Custom color  | k     | Update custom color booklet name  |
| 2019/05/06 | Hardware-pole   | i     | Pole remove pole length 43"   |
| 2019/05/09 | Custom T post   | e     | move Custom T post comment near to T post drawing   |
| 2019/07/10 | New PerfectTilt RF  |       | Change Micro USB cable usage.   |
| 2019/07/15 | New PerfectTilt RF  |       | 1. Remove the O section, and that motorization is now in a separate program binder;<br>2. Add Micro USB Cable Length: 3 meters;   |
| 2019/07/27 | Specialty Shutters  | l     | Change the drawing of Standard unit with horizontal arch center   |
| 2019/08/05 | Custom T post, S1 and S2 Scribe trim                                  | e     | 1. Add content for Custom T post: <ul style="list-style-type: none"> <li>▪ Size limits (7 1/2")</li> <li>▪ That a surcharge applies and customers should refer to their shutter pricing</li> <li>▪ Any limitations</li> </ul> 2. Add drawing and description of the S1 and S2 Scribe trim |
| 2019/08/05 | Direct Mount 3" Hinge , Pole  | i     | 1. Add comment: Direct Mount 3" Hinge is not suitable for drywall installations.<br>2. Increase 1 pole length (2pcs combined by connector).   |
| 2019/08/14 | Specialty Shutters, Shutter pole                                      | i, l  | 1. Rounding new added pole length to 53" (2pcs combined by connector).<br>2. Add Specialty Shutters drawings  |
| 2019/08/26 | quarter round scribe trim   | e     | Add quarter round scribe trim   |
| 2019/08/30 | Table of Contents , Colors & Louver Sizes/Louver Clearance, Hardware, | b,i,n | 1. Revise the table of contents information, rename point b<br>2. i: Remove Oil-Rubbed hinge color information<br>3. i: Revise "Nickel" hinge color to "Nickel Plated" , revise color coordination chart  |

2019 Shutter Revision log



|                   |   |        |  |
|-------------------|---|--------|--|
|                   |   |        | <p>4. i: Remove shutter pole length 32"</p> <p>5. Remove n section, and that information will be in b&amp;i sections</p>   |
| 2019/10/05        | <p>Tilt rods;</p> <p>General product specification;</p> <p>Bifold track</p>                 | f.g,j1 | <p>1). Revise Split tilt information</p> <p>2). Add Content: <b>Shutters without bottom supports</b></p> <p>Shutters without bottom supports may sag and deform, including situations below:</p> <ol style="list-style-type: none"> <li>1. Shutters with bottom gap over 0.1";</li> <li>2. Shutters with no frame or no existing sill at the bottom to support the panel (or bottom has frame/existing sill, but the panel keep to open long time without bottom support).</li> </ol> <p>3). Revise track drawing ( correct 1 1/2" louver to 2 1/2")</p> |
| Middle of October | <p>1.6" sill plate with 3/8" light block,</p> <p>1.6" sill plate with 5/8" light block,</p> | e      | <p>Add new 1.6" sill plate with 3/8" light block to replace 1.5" sill plate with 3/8" light block / add new 1.6" sill plate with 5/8" light block to replace 1.5" sill plate with 5/8" light block for 2.5" Mission deco frame at first</p>  |
| 2019/10/23        | <p>1.6" sill plate with 3/8" light block,</p> <p>1.6" sill plate with 5/8" light block</p>  | e      | <p>For 2.5" Mission deco frame: use new 1.6" sill plate with 3/8" light block to replace 1.5" sill plate with 3/8" light block, use new 1.6" sill plate with 5/8" light block to replace 1.5" sill plate with 5/8" light block</p>   |
| 2019/11/01        | <p>Invisible hinge, Panel Lock position, Shutter pole</p>                                   | i      | <ol style="list-style-type: none"> <li>1. Invisible hinge: add Invisible hinge drawing, update point2 description</li> <li>2. Panel Lock position: add drawings of L/R/LR panel configuration</li> <li>3. Update New pole lengths (2pcs Combined by Connector): Poles will be with Plastic Tube.</li> </ol>  |
| 2019/11/07        | <p>Ring Pull</p>  | i      | <p>Add content:</p> <p><b>Ring pull location principle for Floating Panels:</b></p> <ol style="list-style-type: none"> <li>1. When floating panel config is in pairs, it will be split into halves, the left will be for LL and the right will be for RR. So the ring pull location for</li> </ol>   |

2019 Shutter Revision log



|            |                |   |  |
|------------|----------------|---|--|
|            |                |   | <p>FF/FF, FF/FF/FF/FF will be same as that of panel config as LL/RR, LL/LL/RR/RR.</p> <p>2. When floating panel config is FF, the ring pull location will be same as that of panel config LL.</p> <p>3. When floating panel config is FFFF/FF, the ring pull location will be same as that of panel config LLLL/RR.</p> <p>4. When floating panel config is singular, it will be split into 3 sections, the left and mid sections are for LL and the right section is for RR. So the ring pull location for FF/FF/FF, FF/FF/FF/FF/FF will be same as that of LL/LL/RR, LL/LL/LL/RR/RR.</p> |
| 2019/12/01 | Custom Colors  | k | Revise Custom Colors information   |
| 2019/12/05 | Slim Fit Posts | e | <p>Add content:</p> <p>Note: Due to size and weight limitations, Slim Fit Posts may only be hinged on one side and with a single panel (no bi-folded panels). Please consider this when determining panel configuration.</p>   |

# *Normandy® Shutters*

| Table of Contents                         | Page   |
|---|--------|
| a. Features & Benefits                    | ND a-1 |
| b. Colors & Louver Sizes/Louver Clearance | ND b-1 |
| c. Stiles                                 | ND c-1 |
| d. Panel Configurations                   | ND d-1 |
| e. Frame Styles                           | ND e-1 |
| f. General Product Specifications         | ND f-1 |
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| h. Divider Rails                          | ND h-1 |
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| n. Appendix                               | ND n-1 |

Effective 2020

# *Normandy® Shutters*

## Features and Benefits

- Brings a touch of country elegance to your home. The **textured finish of Normandy stained hardwood shutters** blends the tranquility of nature with distinctive luxury.
- Normandy is treated with our exclusive **Prescription Wood Conditioning™** technique according to the moisture content of the final installation location to reduce post-installation shrinking and swelling.
- A wide range of **frames with inserts** that keep installation screws out of sight for a clean and decorative look to match any style and preference.
- **Reinforced engineered stiles** -- Multiple layers of wood bonded together to reinforce durability to the core of the stile, which results in a robust support system for the shutter panel.
- Multiple stile options available in various sizes to accommodate different window configurations. **Astragal (solid color shutters only) or Rabbet stiles** provide a natural light block between panels.
- Employs **mortise and tenon joinery** that resists shear and racking forces endured by shutters and ensures prolonged stability and durability.
- Quick and easy on-site installation with the **pre-installed magnets and hinges**, as well as **pre-mitered frames** and **slotted keyholes**.
- Labor-intensive **hand finishing process** involves **multiple sequences of sanding and coating** with fine layers of stain or paint for a brilliant, lustrous finish.
- Personalize shutters with **special options**. Choose from hidden or offset tilt rods, double-hung panels, café shutters, track systems, specialty shapes and many more.
- **Special panel and frame designs** are finely crafted to accommodate unique window configurations. Create unity or attract attention with Normandy's exclusive decorative elements.
- Available in **classic paint, radiant stain, and stimulating designer colors** that harmonize into the style of any home.
- A guarantee of Norman Shutters' exemplary quality with a **lifetime limited warranty on materials and workmanship**.



## Colors & Louver Sizes/Louver Clearance

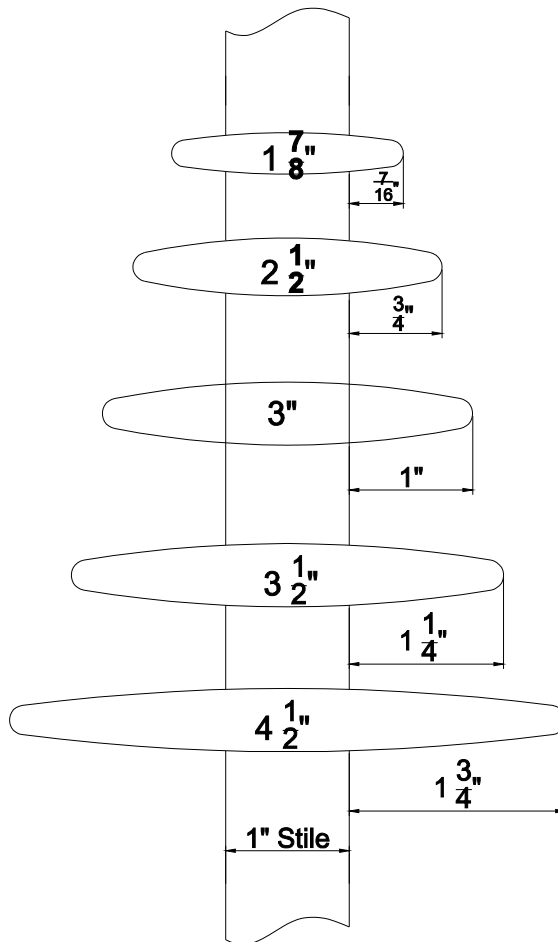
|                              | Color ID | Color Name            |
|------------------------------|----------|-----------------------|
| <b>Paint<br/>(27 colors)</b> | 001      | Pure White            |
|                              | 002      | Extra White           |
|                              | 003      | Silk White            |
|                              | 004      | Bright White          |
|                              | 006      | Pearl                 |
|                              | 007      | Ivory Lace            |
|                              | 009      | Creamy                |
|                              | 012      | Crisp Linen           |
|                              | 016      | Butter                |
|                              | 019      | String                |
|                              | 030      | Moondust              |
|                              | 032      | Sea Mist              |
|                              | 042      | Hall Gray             |
|                              | 046      | Ice                   |
|                              | 048      | Chai                  |
|                              | 049      | Stone Gray            |
|                              | 051      | Brown Gray            |
|                              | 053      | Clay                  |
|                              | 063      | Decorators White      |
|                              | 066      | Winchester White 2010 |
|                              | 073      | Sky Gray              |
|                              | 074      | Element Gray          |
|                              | 075      | Storm Gray            |
|                              | 077      | Dawn                  |
|                              | 078      | Cloud Blue            |
|                              | 080      | Taupe Gray            |
|                              | 836      | Classic Black         |
| <b>Stain<br/>(24 colors)</b> | 108      | Rustic Gray           |
|                              | 109      | Weathered Teak        |
|                              | 110      | Limed White           |
|                              | 111      | Pebble                |
|                              | 200      | Natural               |
|                              | 202      | Golden Oak            |
|                              | 205      | Goldenrod             |

\*Some surcharges apply

# Normandy® Shutters

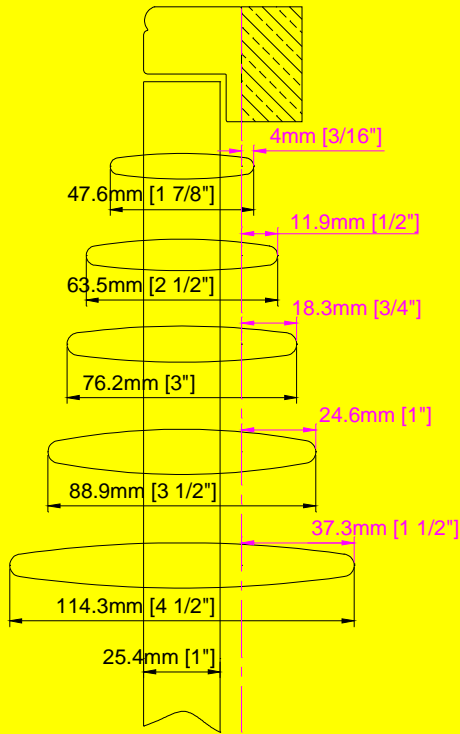
|     |              |
|-----|--------------|
| 212 | Dark Teak    |
| 215 | Cordovan     |
| 220 | New Ebony    |
| 221 | Black Walnut |
| 227 | Red Oak      |
| 229 | Rich Walnut  |
| 230 | Old Teak     |
| 237 | Wenge        |
| 242 | Auburn       |
| 246 | Matte Black  |
| 248 | Pretzel      |
| 250 | Sumatra      |
| 252 | Toffee       |
| 254 | Driftwood    |
| 255 | Silver Gray  |
| 256 | Mist         |
| 862 | French Oak   |

| Louvers    |        |
|------------|--------|
| Elliptical | 1 7/8" |
|            | 2 1/2" |
|            | 3"     |
|            | 3 1/2" |
|            | 4 1/2" |

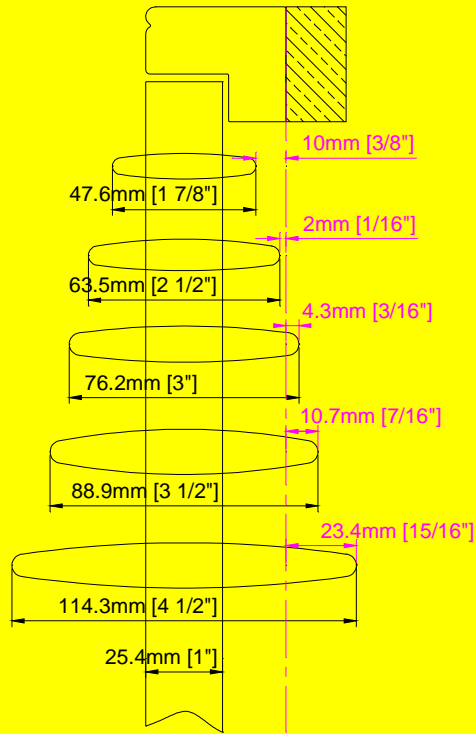


\*Some surcharges apply

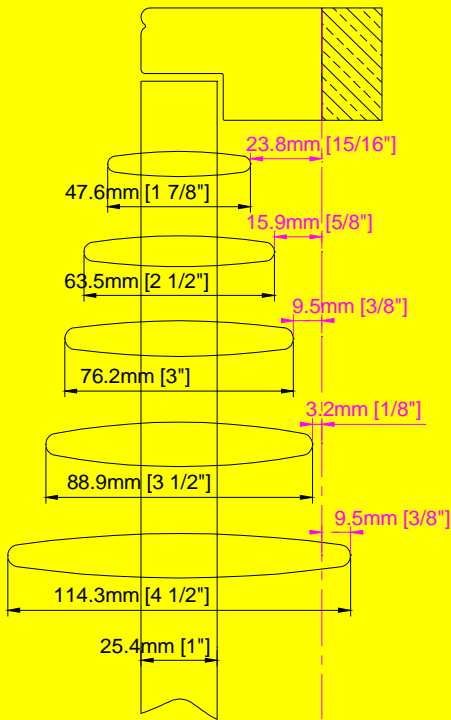
## Louver Depth Clearance For Specific Frames



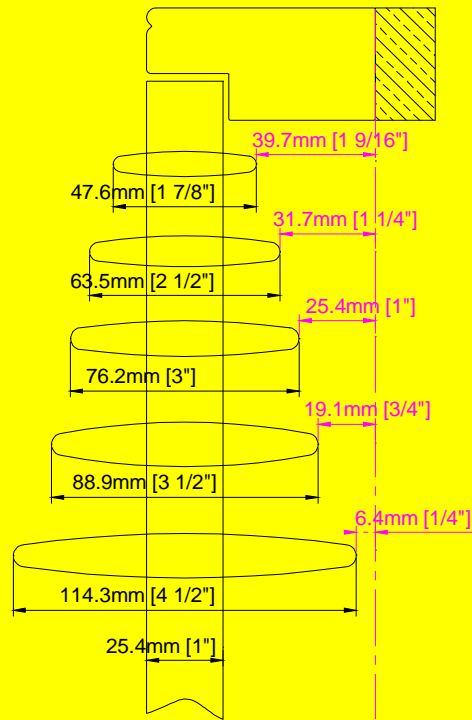
L Frame with 1/4" light block



L Frame

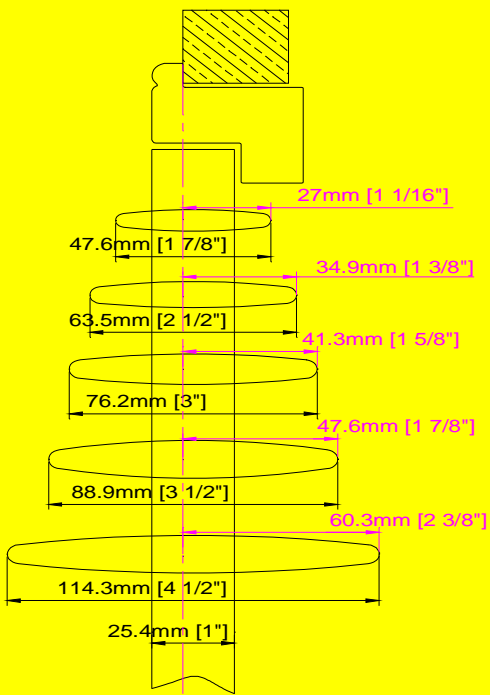


L Frame with 1/2" Buildout

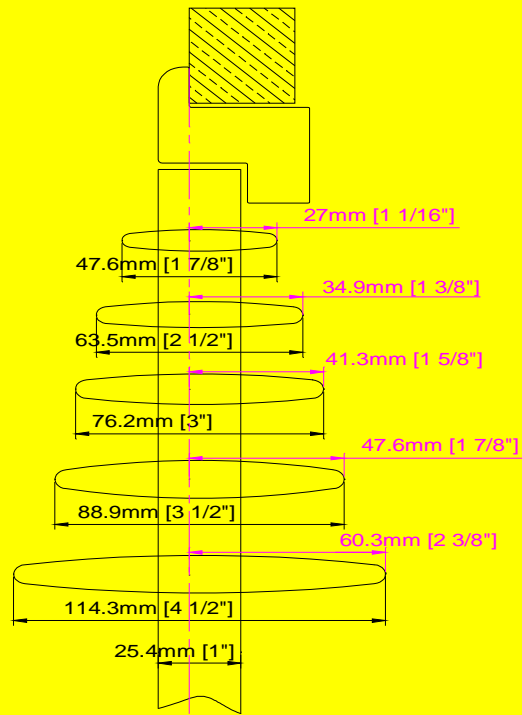


L Frame with 1" Buildout

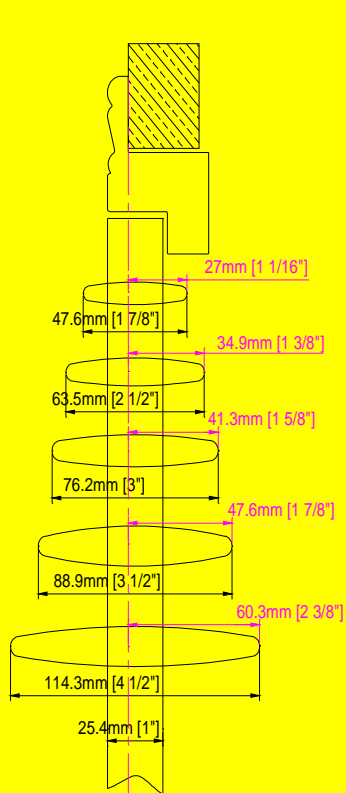
\*Some surcharges apply



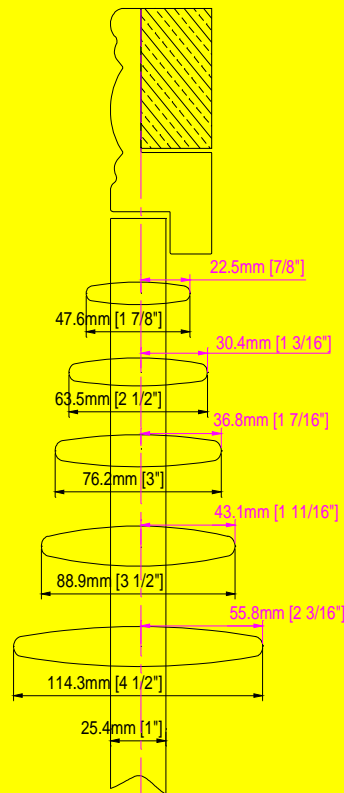
1 1/4" Beaded Z Frame



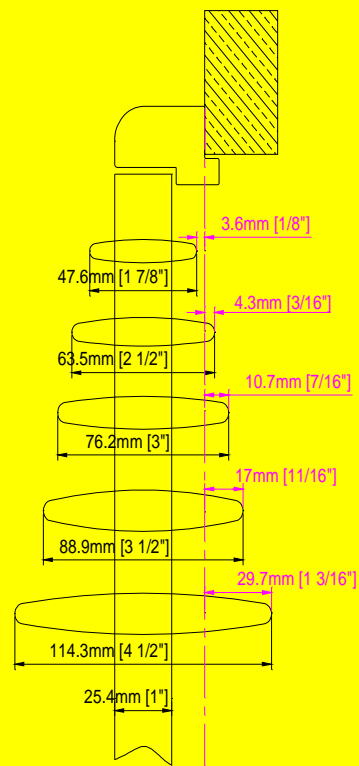
1 1/2" Bullnose Z Frame



2" Bel Air Z Frame

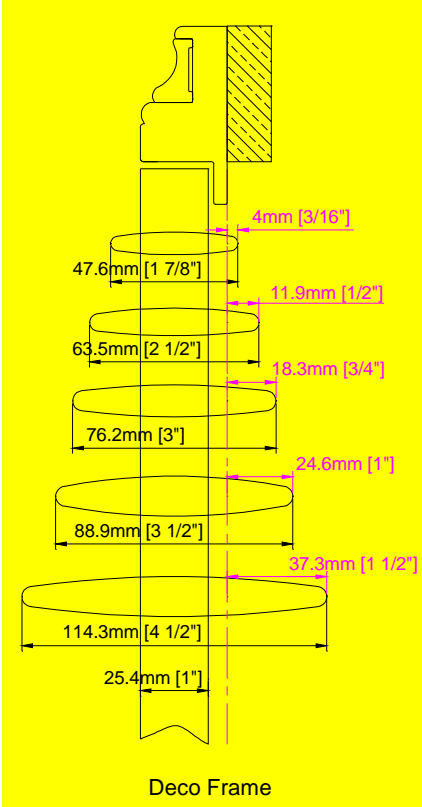
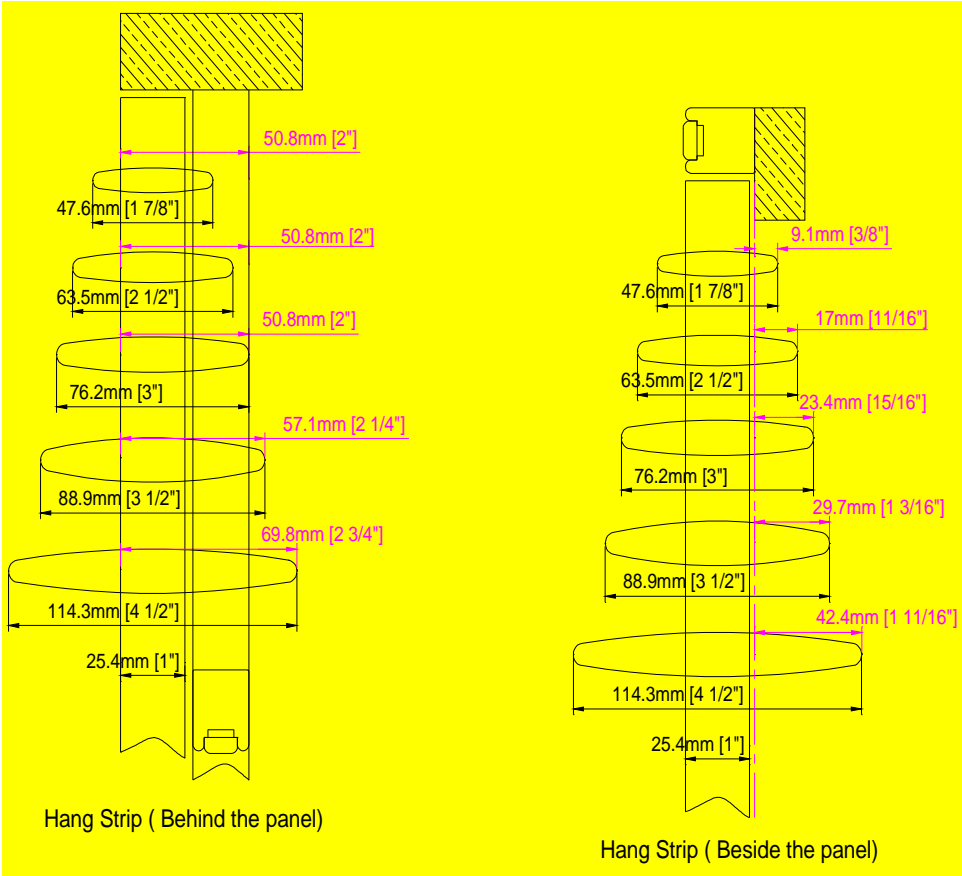


3" Crown Z Frame



Tilt Out Z Frame

\*Some surcharges apply

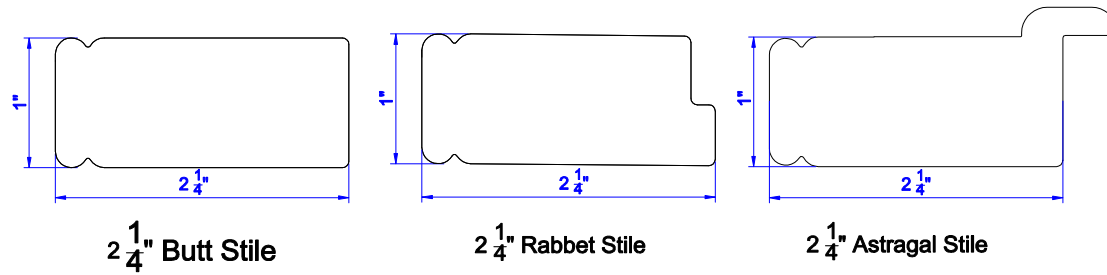
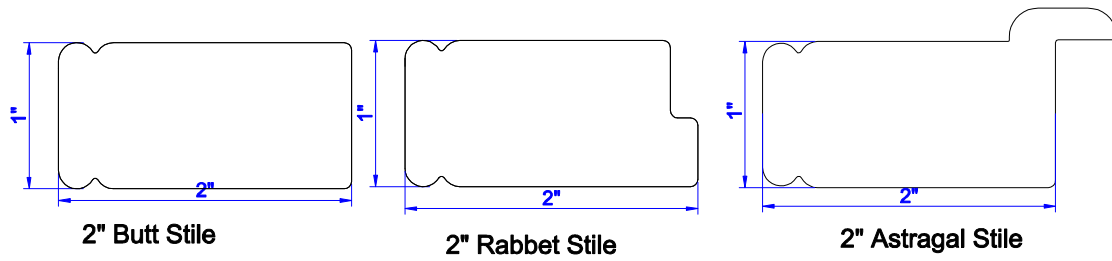
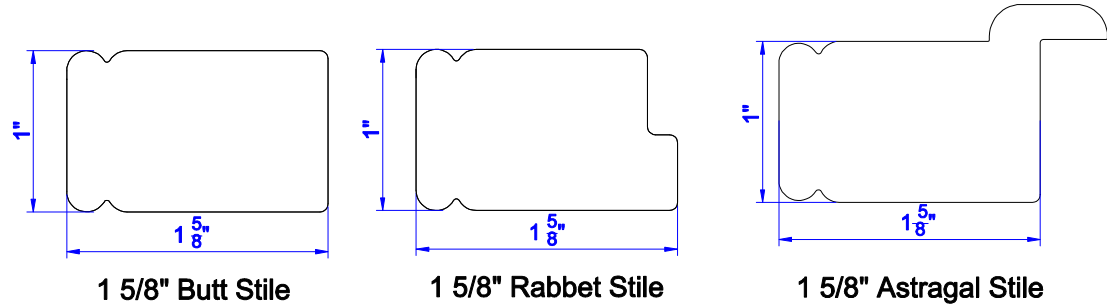


\*Some surcharges apply

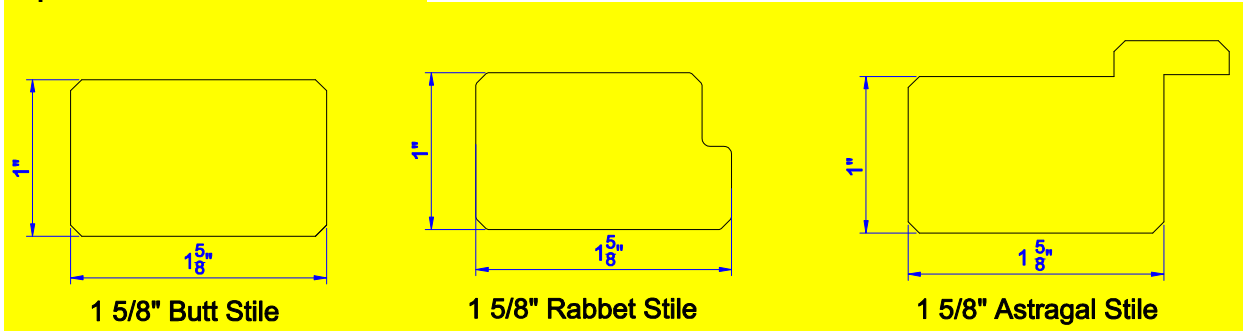
# Normandy® Shutters

## Stiles

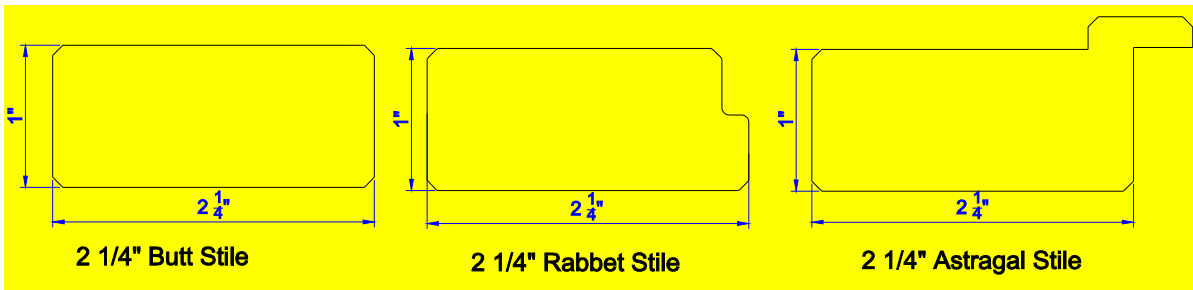
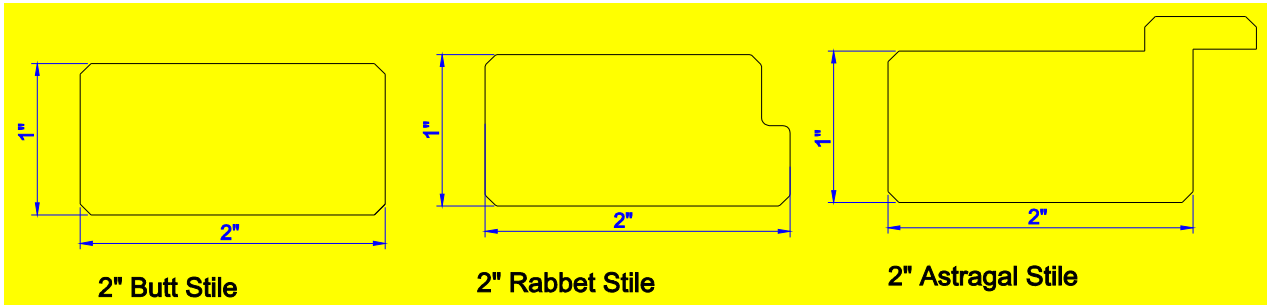
Default: Beaded stile



Optional: Chamfer stile



# *Normandy® Shutters*



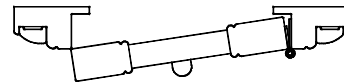
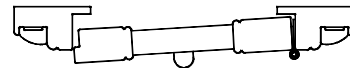
# Normandy® Shutters

## Stile between panel closure

### Single panel

#### I) Panel width < 9"

- Rabbeted stile (Deco frame, L frame, Z frame and Hang strip beside panel)
  - 1 <sup>5</sup>/<sub>8</sub>"
  - 2" (default)
- Butt stile only (Hang strip behind panel)
  - 1 <sup>5</sup>/<sub>8</sub>"
  - 2" (default)



#### II) Panel width ≥ 9"

- Butt stile only
  - 1 <sup>5</sup>/<sub>8</sub>" ( Optional for panel width ≤ 12" )
  - 2" (default)

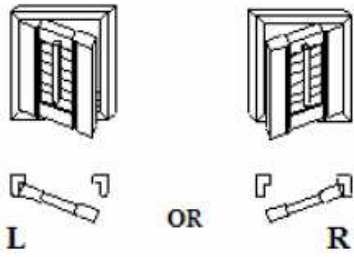
### 2 panels or more

- Astragal stile
  - 1 <sup>5</sup>/<sub>8</sub>" ( Optional for panel width ≤ 12" )
  - 2" (default)
- Rabbet stile
  - 1 <sup>5</sup>/<sub>8</sub>" ( Optional for panel width ≤ 12" )
  - 2"

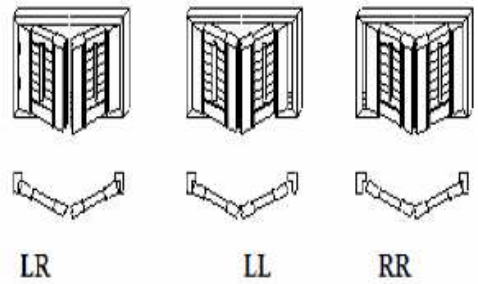


## Panel Configurations

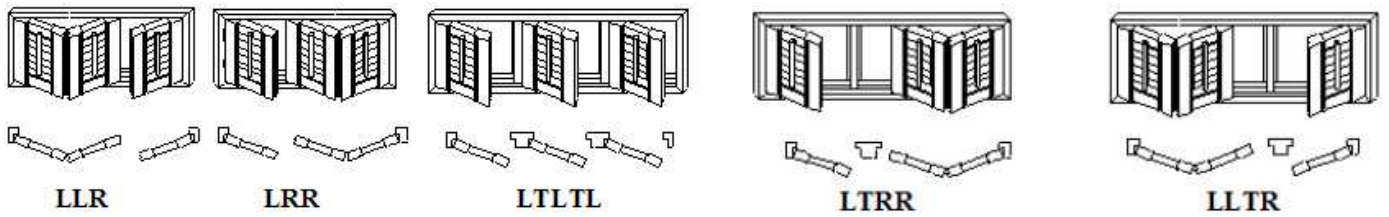
### Single Panel



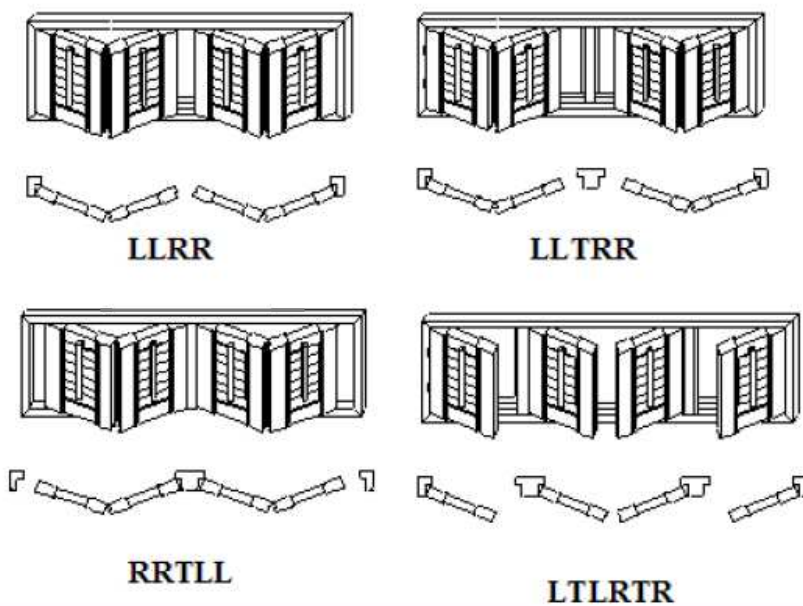
### 2 Panels



### 3 Panels



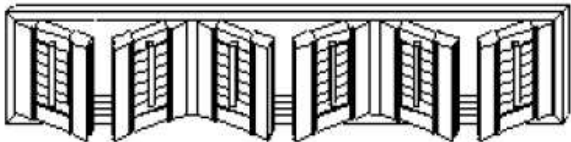
### 4 Panels



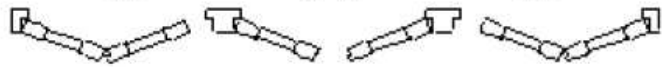
# *Normandy® Shutters*

## Panel Configurations (continued)

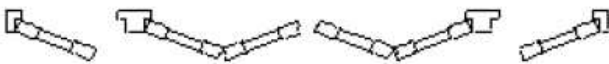
### 6 Panels



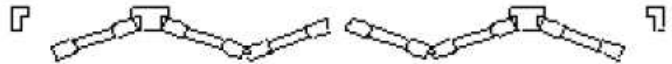
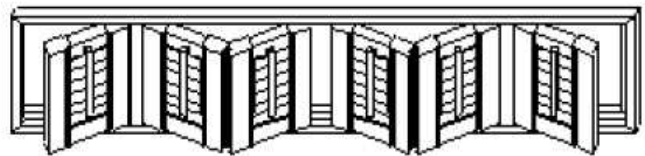
**LRTLRTL**



**LLTLRTRR**



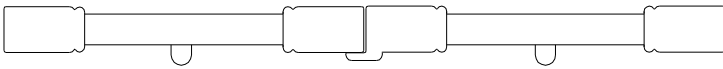
**LTLRRTL**



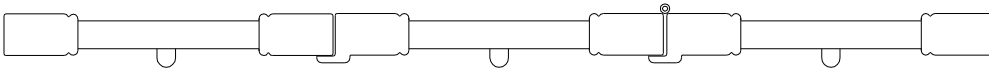
**RTLRLTL**

## Panel Configurations - Astragal Stile (Solid color shutters only)

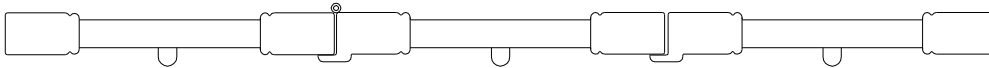
- 2 Panels - LR



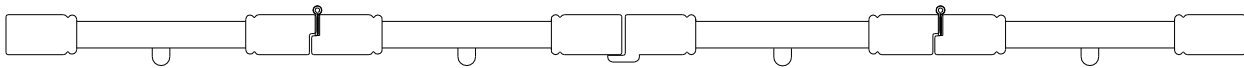
- 3 Panels - LRR



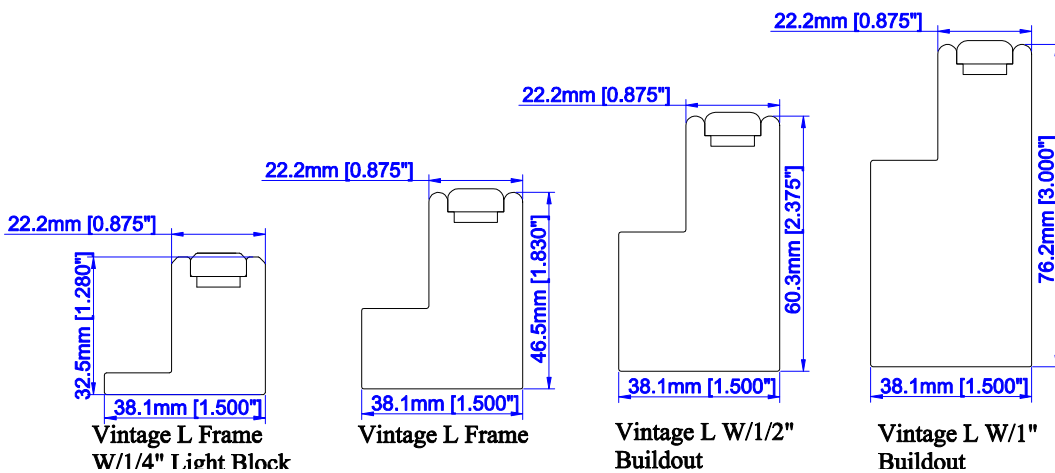
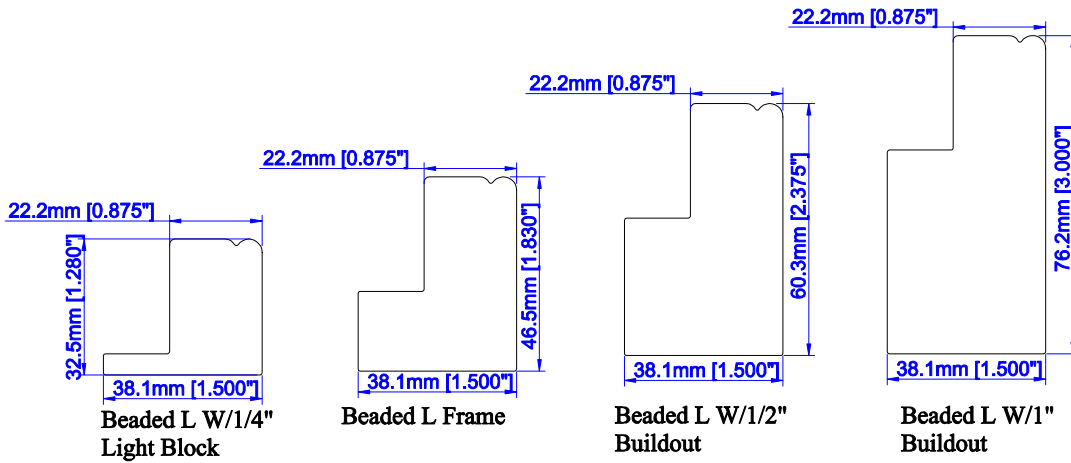
- 3 Panels - LLR



- 4 Panels - LLRR

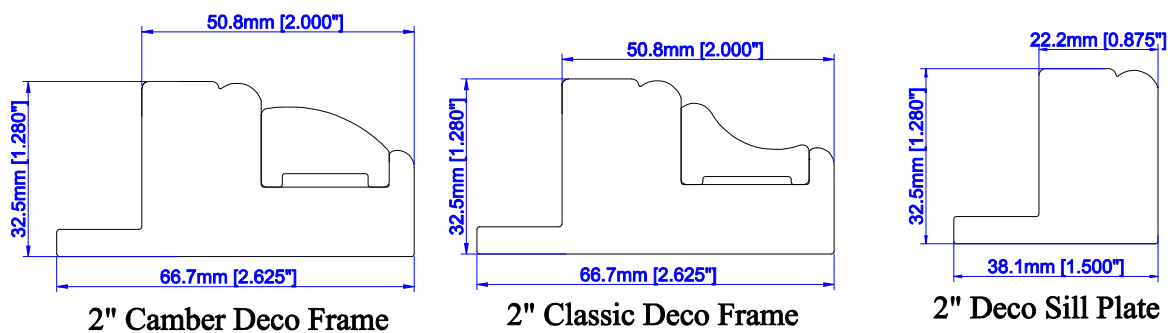


Frame Styles



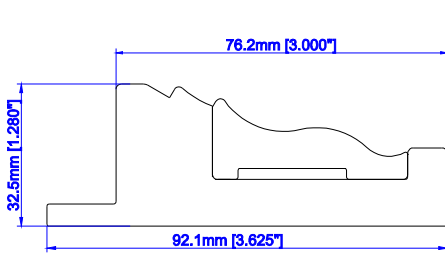
Also available

- Custom extensions\* up to 2" for L frames

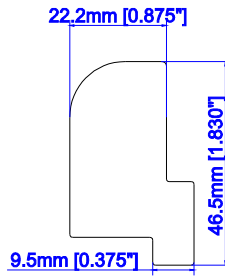


\*Some surcharges apply

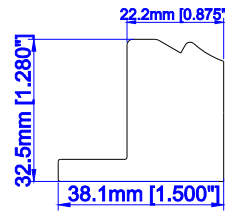
## Frame Styles



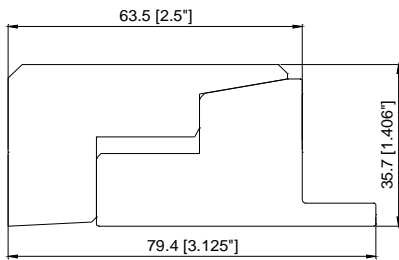
**3" Ridge Deco Frame**



**Tilt Out Z Frame**



**Ridge Deco Sill Plate**



**2.5" Mission Deco Frame**

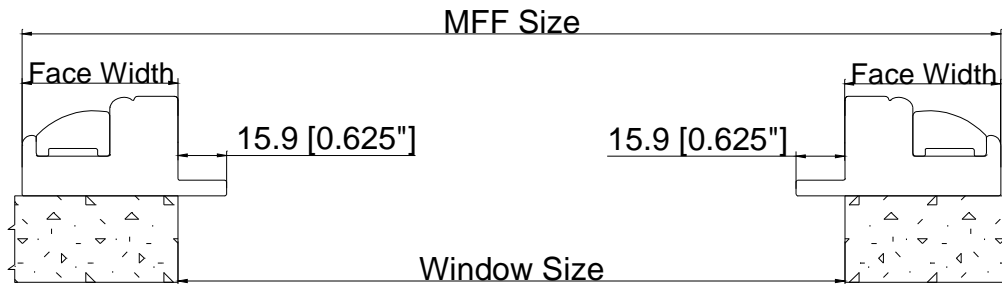
There are 2 options for the Deco frame installation when Window Size is given (Take Camber Deco frame as an example)

1. Default: light block part install into the window opening;

The window size is the exact size of the window opening;

The MFF size is the measurement of the entire shutter, including the frames;

The MFF size = Window Size + Face Width



2. Optional: light block part flush with window opening.

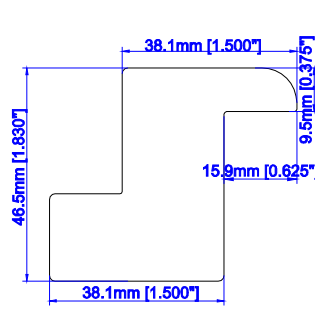
The window size is the exact size of the window opening;

The MFF size is the measurement of the entire shutter, including the frames;

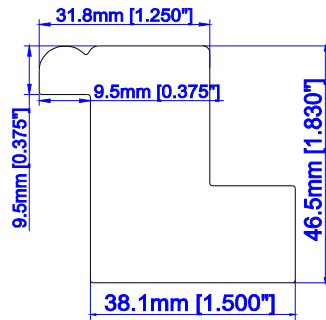
The MFF size = Window Size + Frame Back Width



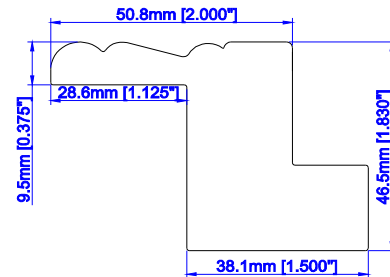
# Frame Styles



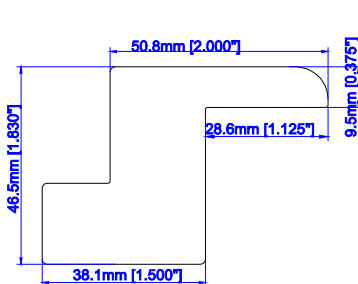
1 1/2" Bullnose Z Frame



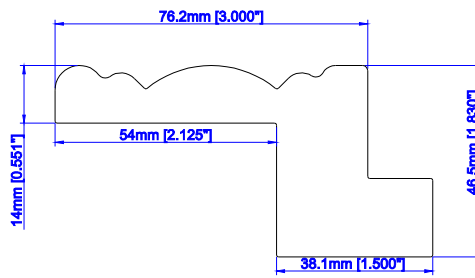
1 1/4" Beaded Z Frame



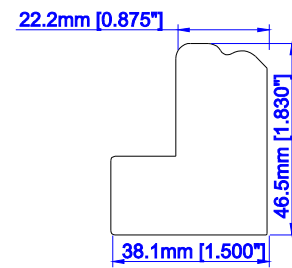
2" Bel Air Z Frame



2" Bullnose Z Frame



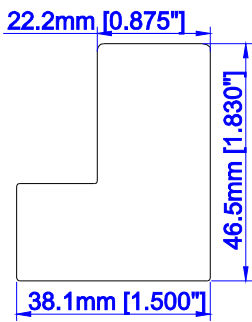
3" Crown Z Frame



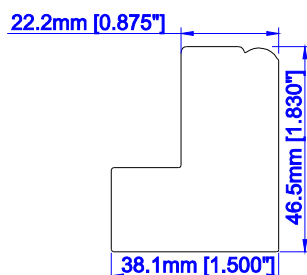
3" Crown Z Sill Plate

Also available

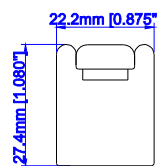
- Custom extensions\* up to 1" for Z frames
- 1/2", 1" and 1 1/2" standard extensions\* and custom extensions\* up to 2" for Deco frames
- Custom extensions\* up to 2" for hang strips (OM)



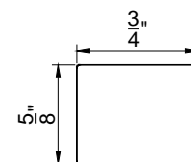
Bullnose Z  
1 1/4" Beaded Z  
Sill Plate



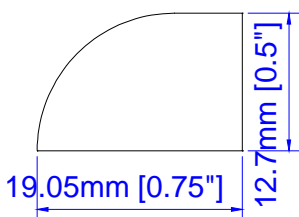
2" Bel Air Z Sill Plate



Vintage Hang Strip



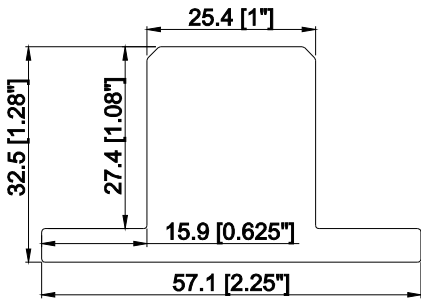
Light Block



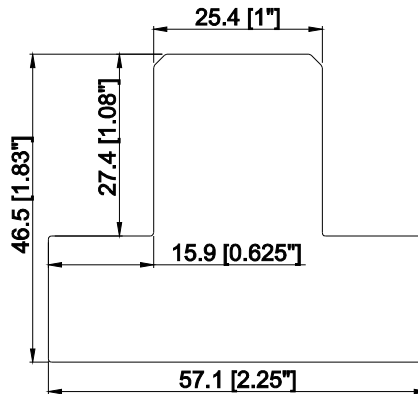
Quarter Round  
Scribe Trim

\*Some surcharges apply

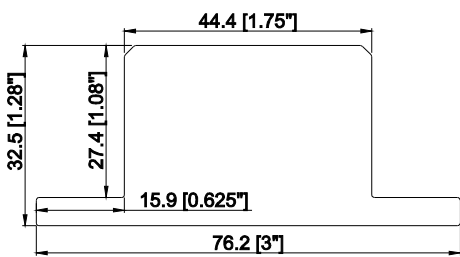
Frame Styles



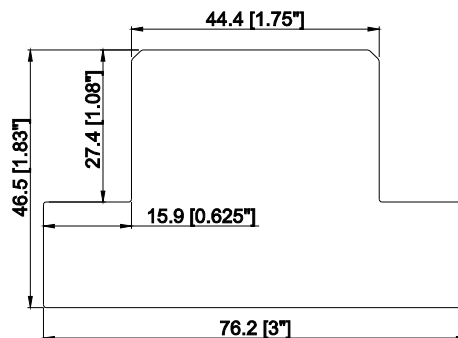
1" Chamfer T Post W/ 1/4" Light Block (Deco)



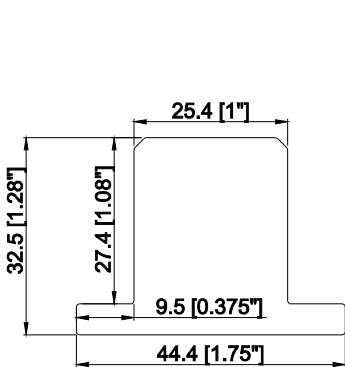
1" Chamfer T Post W/ 3/4" Light Block (L/Z/HS)



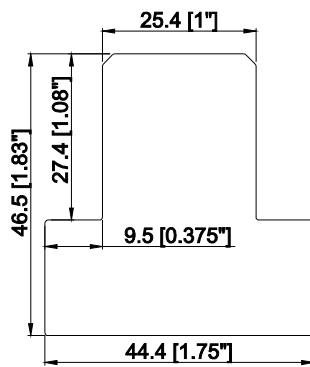
1.75" Chamfer T Post (Deco)



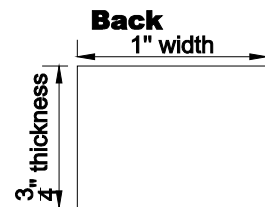
1.75" Chamfer T Post (L/Z/HS)



1" Chamfer T Post W/ 1/4" Thick 3/8" Wide Light Block (Deco)



1" Chamfer T Post W/ 3/4" Thick 3/8" Wide Light Block (L/Z/HS)



1" \* 3/4" Post (No light block)

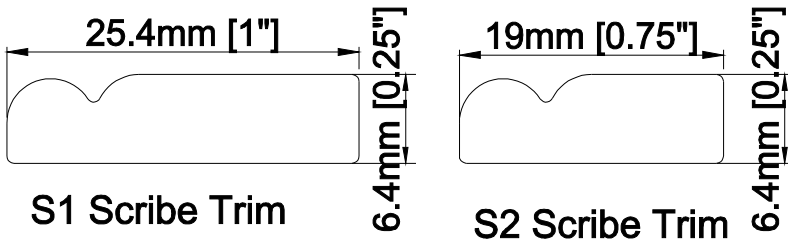
o Custom depth\* up to 2" / width\* up to 7½ for T Posts

- Size limits (7 1/2")
- That a surcharge applies and customers should refer to their shutter pricing
- Any limitations

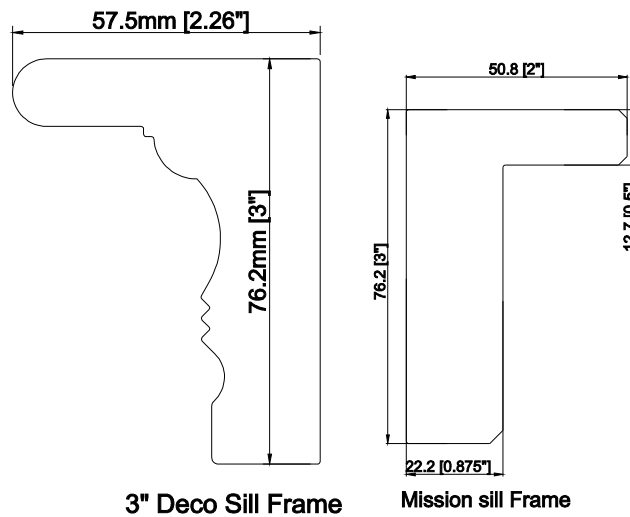
\*Some surcharges apply

## Frame Styles

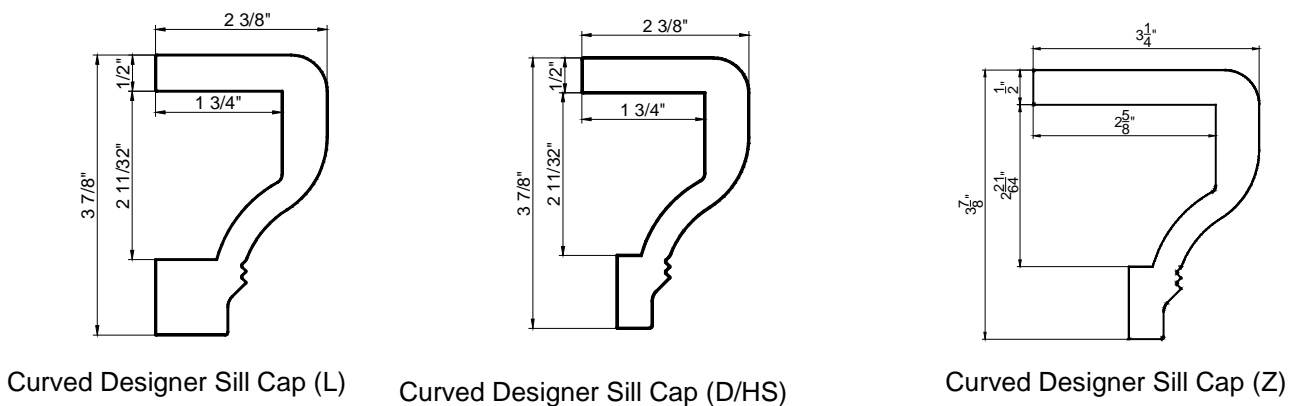
Note: The 1"x3/4" Post (No Light Block) is only available for Direct Mount. And no hardware will be supplied to install it on the existing window opening.



## Sill Frames- For use where there is no existing sill



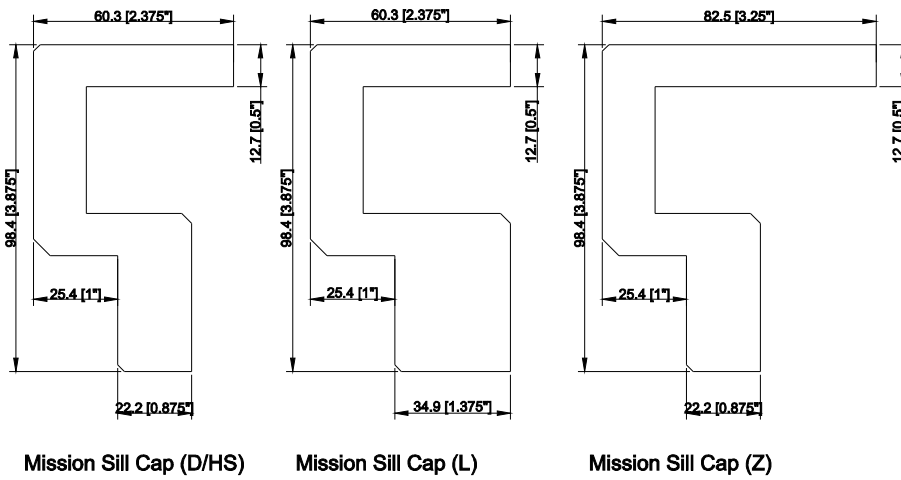
## Sill caps-Used to cover existing sills



\*Some surcharges apply

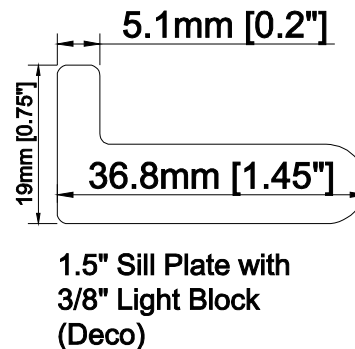
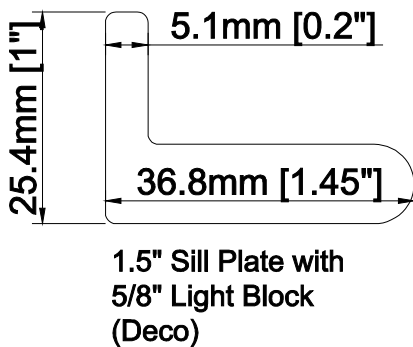
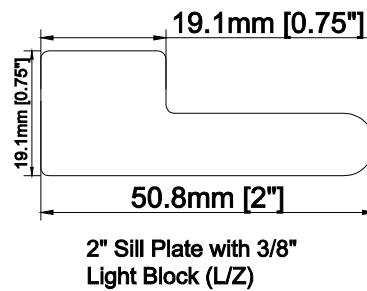
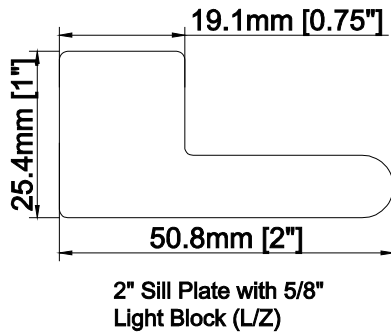


Frame Styles



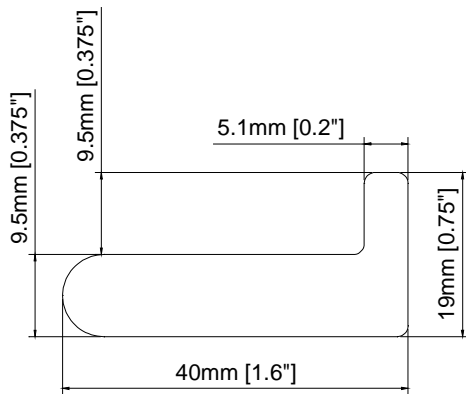
Note: For Mission Sill Cap, the extended size at each side needs to be 1" at least.

Sill Plates- Used with existing sills

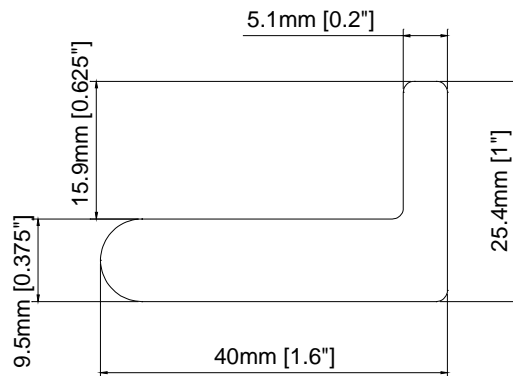


For non-2 1/2" Mission Deco frame & L frames with 1/4" light block

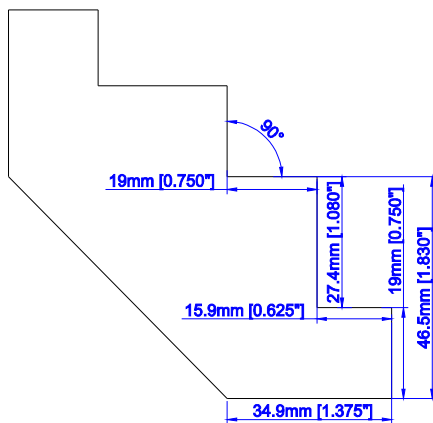
Frame Styles



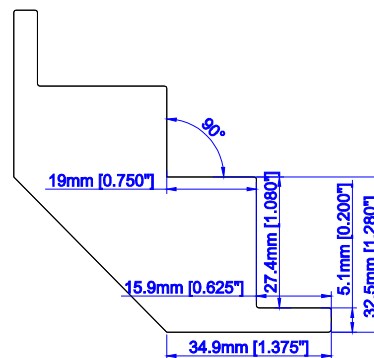
1.6" Sill plate with 3/8" light block  
(For 2.5" Mission Deco Frame)



1.6" Sill plate with 5/8" light block  
(For 2.5" Mission Deco Frame)

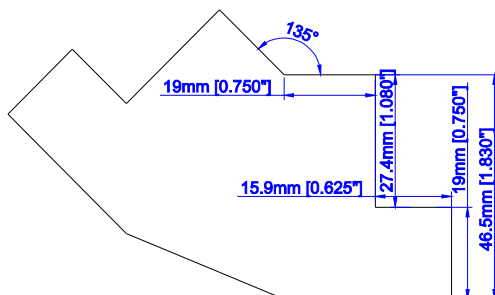


Corner Post W/ 3/4"  
Light Block (L/Z/HS)

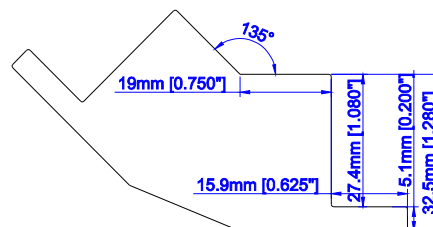


Corner Post W/ 1/4"  
Light Block (Deco)

**\*Notch out corner post required if ordering Z Frame with solid drywall corner.**

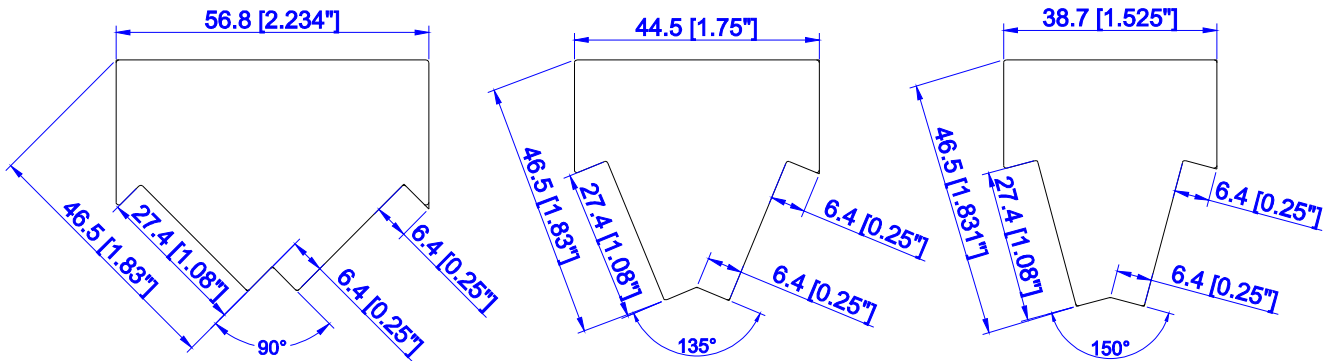


Bay Post W/ 3/4"  
Light Block (L/Z/HS)



Bay Post W/ 1/4"  
Light Block (Deco)

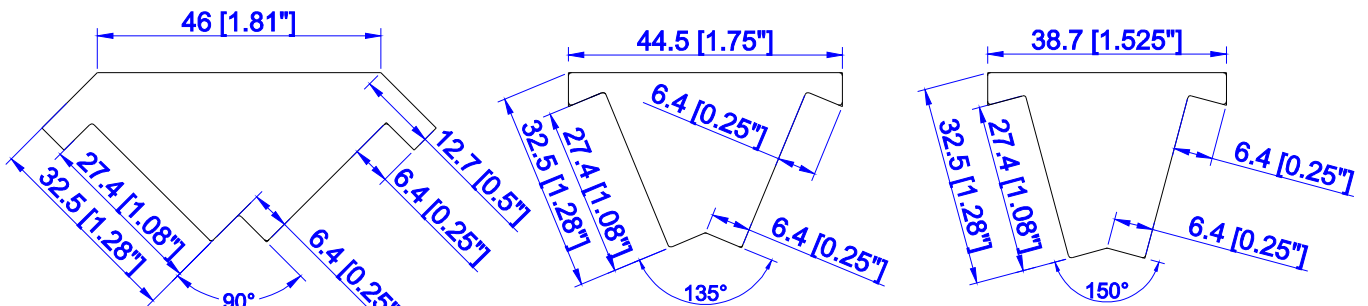
Frame Styles



Slim Fit Corner Post for 90 Degree (L/Z/HS)

Slim Fit Bay Post for 135 Degree (L/Z/HS)

Slim Fit Bay Post for 150 Degree (L/Z/HS)



Slim Fit Corner Post for 90 Degree (D)

Slim Fit Bay Post for 135 Degree (D)

Slim Fit Bay Post for 150 Degree (D)

Note: Due to size and weight limitations, Slim Fit Posts may only be hinged on one side and with a single panel (no bi-folded panels). Please consider this when determining panel configuration.

Also available

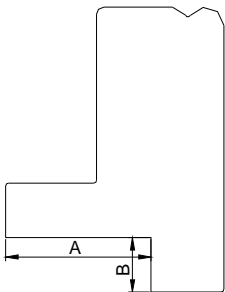
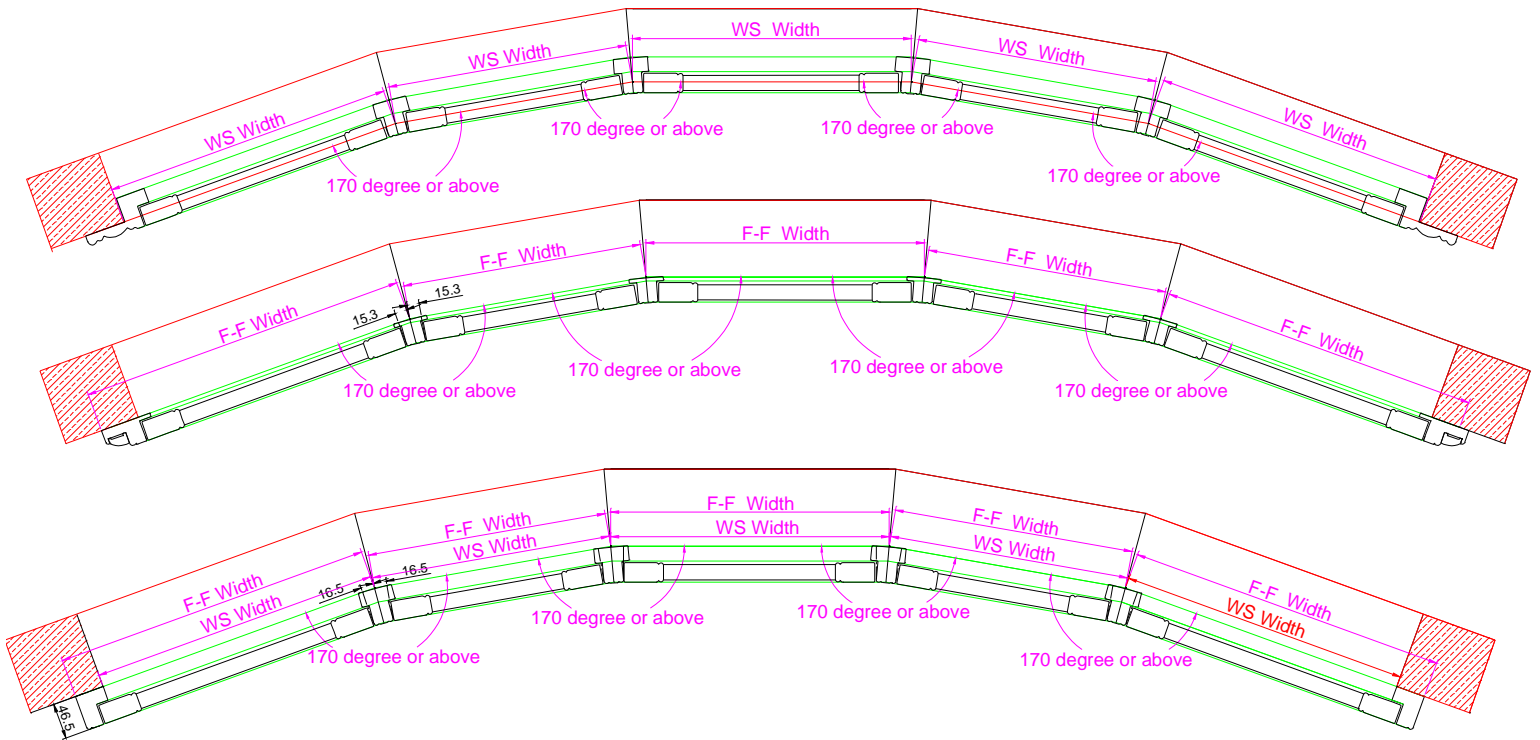
- o Custom angle bay posts\*

**For bay window at 170 degree or above,**

- 1" T Post with 3/8" light block will be used as Bay post;
- For Hang Strip (Behind Panel), bay post will be used.

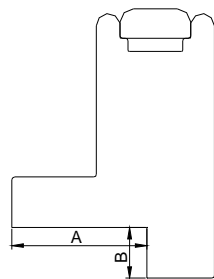
\*Some surcharges apply

Frame Styles



Notch Out

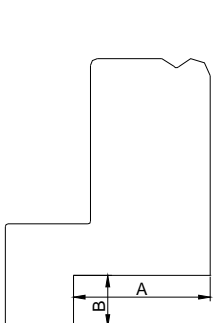
Beaded L Frame (A) \*



Notch Out

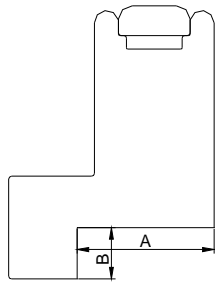
Vintage L Frame (A) \*

Limitation for the Notch Out Size:  
 $A \leq 1"$ ;  $B \leq 1/2"$



Notch Out

Beaded L Frame (B) \*



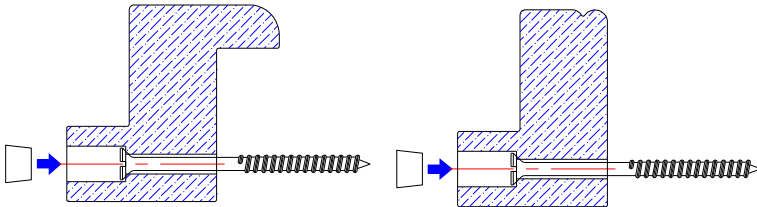
Notch Out

Vintage L Frame (B) \*

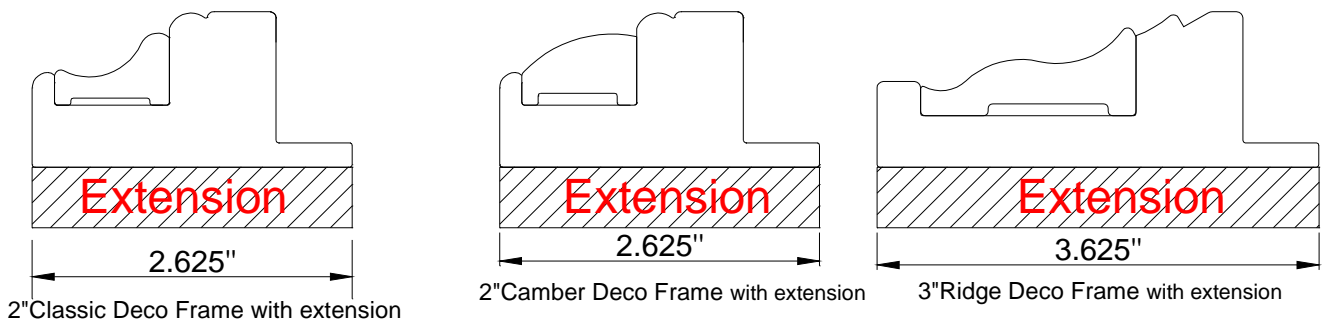
\*Some surcharges apply

## Frame Styles

### Pre-drill L Frames (Inside Mount Only) or Z frames:



### Extension for Deco Frame\* (Default to have full extension):



Note: When the extension thickness of the frame & T post is more than 2", the extension will not be attached with the frame and T post.

### Default principle:

Regarding shutter with horizontal T-post type issue: Horizontal T-Post type will always be the Chamfer T post unless otherwise specified.

## General Product Specifications

| <u>Description</u>             | <u>Minimum</u> | <u>Maximum</u>  |
|--------------------------------|----------------|---|
| Single Panel Width (Regular)   | 6"             | 30" for 1.875" louver,<br>36" for 2.5" & 3" louver,<br>42" for 3.5" & 4.5" louvers  |
| Single Panel Width (Bifold)    | 6"             | 26"   |
| Single Panel Height            | 10"            | 132"  |
| Shutter Width (Without T Post) | N/A            | 4x single panel width (bifold) + frame  |
| Shutter Width (With T Post)    | N/A            | Unlimited<br><b>(For orders shipped by sea, frames longer than 142" will be spliced in the middle.<br/>For orders shipped by air, frames longer than 120" will be spliced in the middle.)</b> |
| Shutter Height                 | N/A            | 132" + frame  |

\* For frame and stile exceeding 108", there will be a visible finger joint line in the middle.

**Material:** Solid Colour: Made in Hardwood; Stain Colour: Made in Phoenix wood

### Shutters without bottom supports

Shutters without bottom supports may sag and deform, including situations below:

1. Shutters with bottom gap over 0.1";
2. Shutters with no frame or no existing sill at the bottom to support the panel (or bottom has frame/existing sill, but the panel keep to open long time without bottom support).

Normandy shutters will be covered by our warranty for this application, subject to our standard specification limitations and the guidelines listed below:

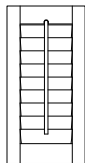
### All Normandy panel configurations:

- ◇ You must inform Norman Shutters of situations where shutters will not have bottom support when placing the initial order, or warranty will be considered void.
- ◇ Informing Norman Shutters when placing such orders ensures that the factory will add extra hinges to support the panel. This will reduce the probability of the panels sagging and increase shutter integrity.
- ◇ If you fail to notify Norman Shutters that the shutter will be used without a bottom support or used as doors, this will constitute a misapplication of the shutter. Consequently, you will be responsible for the cost of any RGA Reorder that is submitted.
- ◇ If you want a bifold shutter, a track must be ordered to support the panels.

## Tilt Rods

### Standard Tilt Rod

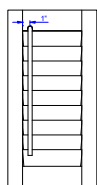
**Default Location:** In the middle of the panel on front side (default).



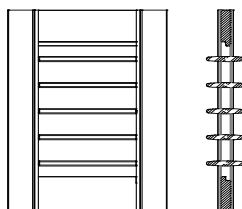
### Offset Tilt Rod\*

**Default Location:** On the front side of the panel and at 1" from the louver ends on the hinged side.

**Optional location:** per your request



### InvisibleTilt™ \*



Louver tilting system embedded within panel stile. It is not available for 1<sup>7</sup>/<sub>8</sub>" louver. The tilting system is split when the number of louvers exceeds the limits as listed below:

| Louver Size | Maximum Possible Louvers | Panel Height Range |
|-------------|--------------------------|--------------------|
| 2½"         | 24                       | 54 ¾" – 57 ¼"      |
| 3"          | 19                       | 54 ¼" – 57"        |
| 3½"         | 16                       | 54 ¾" – 58"        |
| 4½"         | 12                       | 54 ¾" – 60"        |

For even numbers of louvers, the number of louvers operated by the top and the bottom tilting system will be the same;

For odd numbers of louvers, the number of louvers operated by the bottom tilting system will be one more than the number of louvers operated by the top tilting system;

To ensure split tilt is included, always specify on the order.

### Split Tilt

When selected, the louvers are split evenly by default unless a custom location is requested.

When the customer selects a custom location, the measurement will be as follows (please note that the louvers are in the closed position when measured):

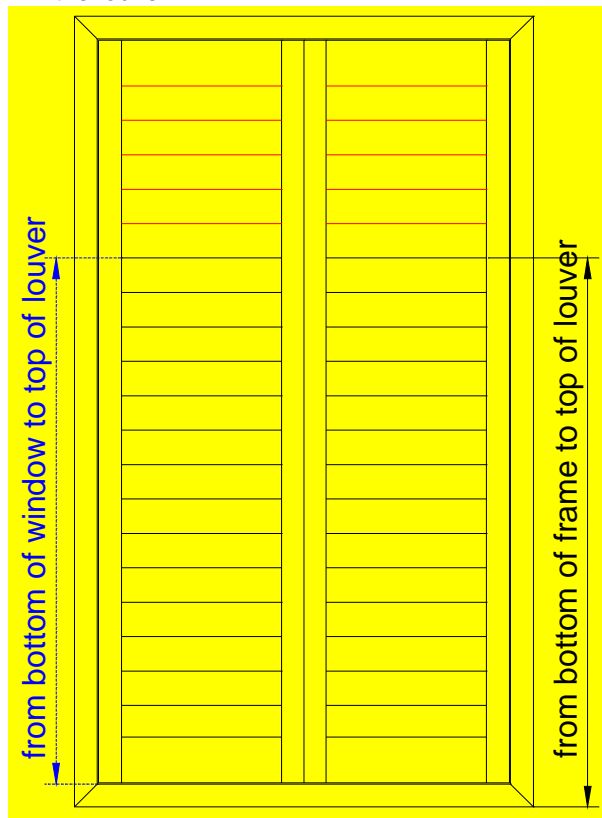
\*Some surcharges apply

**Window size:**

- Measure from the bottom of the window to the top of the louver

**Max frame-to-frame:**

- Measure from the bottom of the frame (or panel if there is no bottom frame, sill or sill cap) to the top of the louver.



**Split tilt allowable deviations**

| Louver Size | Allowable ± Deviation |
|-------------|-----------------------|
| 1 7/8"      | 3/4"                  |
| 2 1/2"      | 1"                    |
| 3"          | 1 1/4"                |
| 3 1/2"      | 1 1/2"                |
| 4 1/2"      | 2"                    |

**Split Location:**

— Per the customer's specification. However, the location of the top louver of the bottom split section may be adjusted to achieve more balanced top and bottom rails when **allow deviations** is selected during order entry. If necessary the location will be moved up from the desired height to ensure any obstruction is covered. The amount of the deviation from the desired height will depend on the size of the louver selected.

If the exact location of the split is critical, customer may select **exact location** in the order entry system when placing the order. This may result in significantly different top and bottom rails. When exact location is selected, a popup will reveal the resulting top and bottom rails measurements from which the customer may either:

1. Accept **the listed top and bottom rail sizes**
2. Modify the split location (sometimes a slight adjustment in the exact split location may achieve desired top and bottom rail **sizes**)
3. Change to **allow deviations** so the system will calculate the split location

**Note:** Top and bottom rail **sizes** may change if the current line item is being matched with another line item. Carefully review all top and bottom rail **sizes** and split locations to ensure a desirable look is achieved



## Divider Rails

- A divider rail is an extra rail in the middle of the panel.
- Creates two sections in the panel so louvers can be operated independently.
- Strengthens the panel and enhances structural integrity.
- Divider rail is required for panel heights over 78".
- Custom Size(3"~7.875") Divider Rail is available with surcharge.
- 84" panel height limit without divider rail is for shutter types below:
  - Normandy French Door with OR without Cut-out (including type E&F), which should be installed on existing door, solid glass or sidelights instead of window opening.
  - Normandy Bypass and bi-fold track shutters

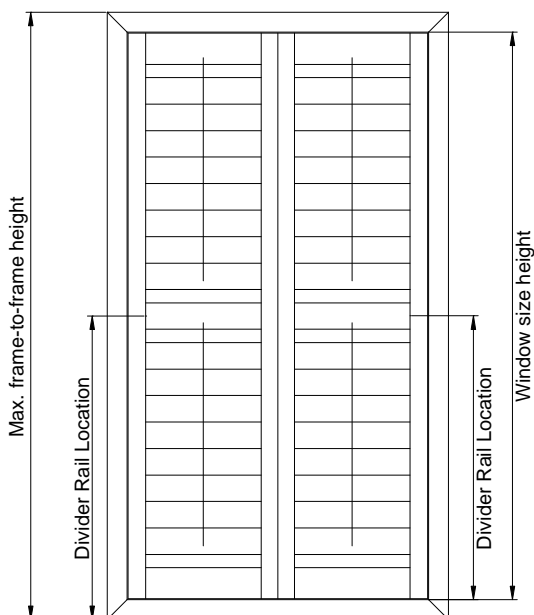
### Specifications

- Standard width: 3"
- Default location: center of the panel unless specified otherwise

### Measurements:

- Window size:
  - Measure from the bottom of the window to the center of the divider rail.
- Max frame-to-frame:
  - Measure from the bottom of the frame to the center of the divider rail.
- Position:
  - Per customer's specification. However, the divider rail may be adjusted to a lower or higher position, within our allowable deviation, to ensure reinforcement and aesthetics of the shutter.

When placing the order, please clearly specify if the divider rail position needs to line up with that of other shutter divider rails in the same room. Please also refer to the table below for the allowable deviation details.



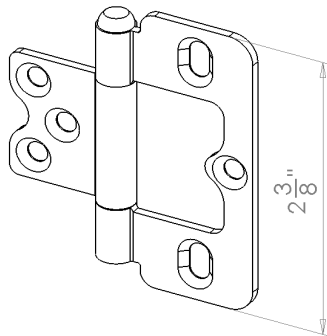
### Divider rail allowable deviations

| Louver Size | Allowable + Deviation |
|-------------|-----------------------|
| 1 7/8"      | 3/4"                  |
| 2 1/2"      | 1"                    |
| 3"          | 1 1/4"                |
| 3 1/2"      | 1 1/2"                |
| 4 1/2"      | 2"                    |

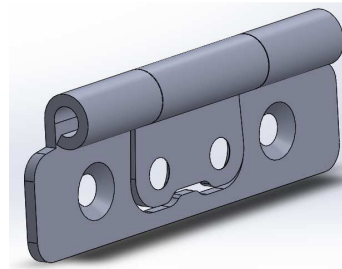
## Hardware

### Hinges

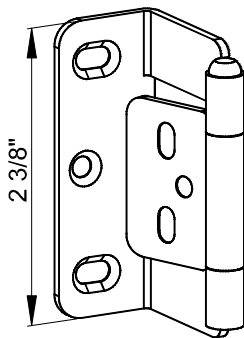
Self-Mortise Hinge



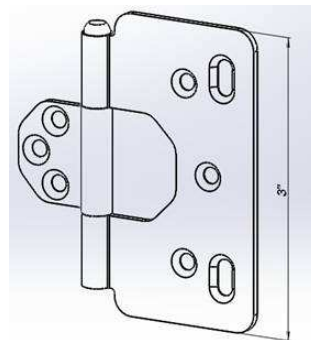
Bi-fold Hinge



L Hinge



Direct Mount 3" Hinge



Hinges are available in:

Pure White, Silk White, Bisque, Pearl, Bright Brass, Antique Brass, Black, Nickel plated, Brushed Nickel, Stainless Steel\*, Crisp Linen, String, Sea Mist, Stone Gray, Brown Gray, Taupe Gray

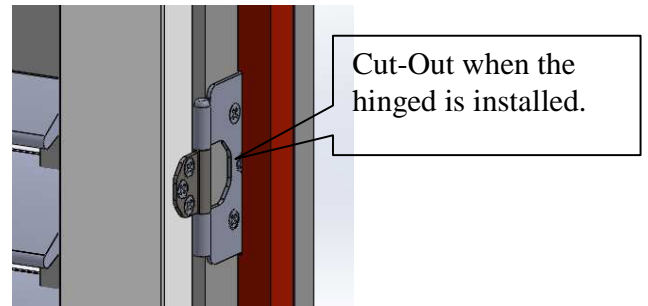
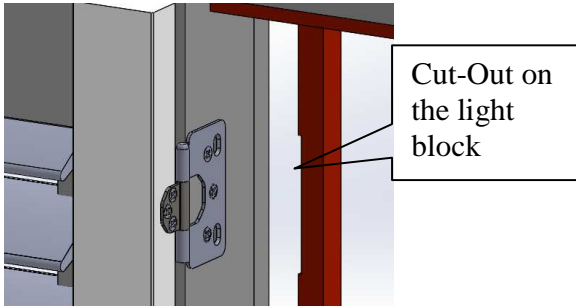
While hinge colors of Crisp Linen, String, Sea Mist, Stone Gray, Brown Gray, Taupe Gray are not available for Direct mount 3" Hinges.

Direct Mount 3" Hinge:

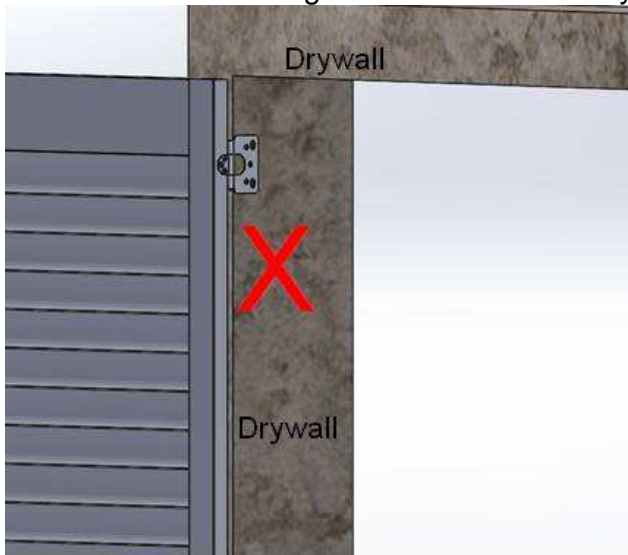
1. The hinge position of the direct mount 3" hinge will be different from that of the 2.375" ones. For shutters used both the 2.375" and the direct mount 3" hinge, the hinge position of the 2.375" ones will match that of the direct mount 3" hinge;

\*Some surcharges apply

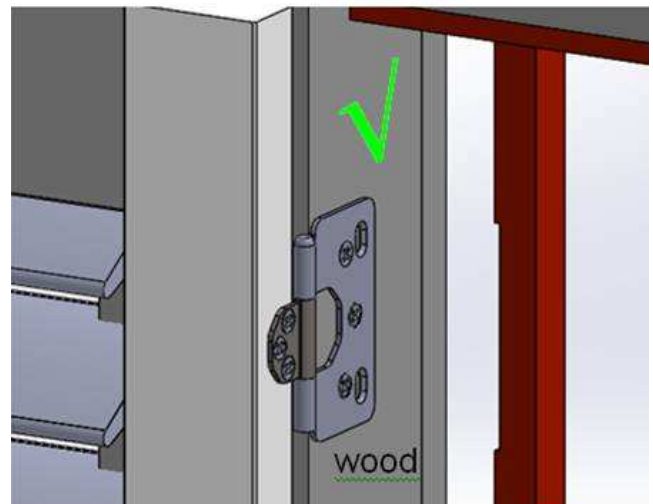
2. The hinge is only to install between the panel and the existing window. For other situation, 2.375" hinges will be used;
3. To avoid conflict, there will be cut-out for the light block of the hinged side. Please refer to the drawing below.



4. Direct Mount 3" Hinge is not suitable for drywall installations.



Direct Mount 3" hinge is not suitable for drywall installations.  
It's not recommended.

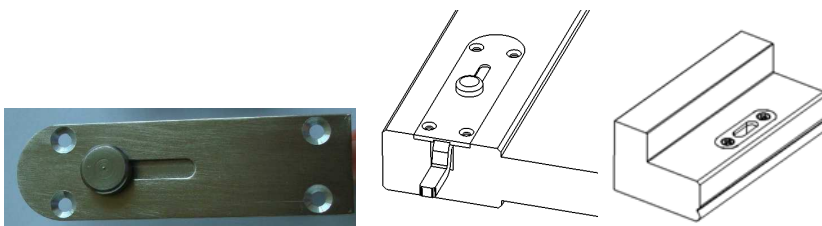


It's acceptable.

**Panel Lock: (not available for 1.625" Stile)**

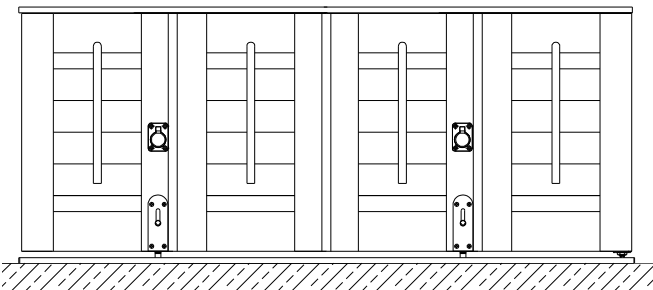
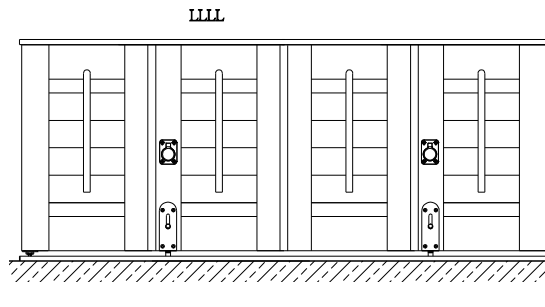
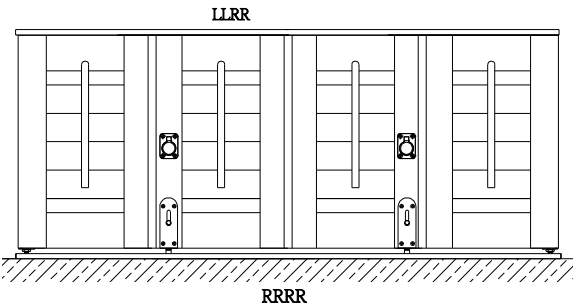
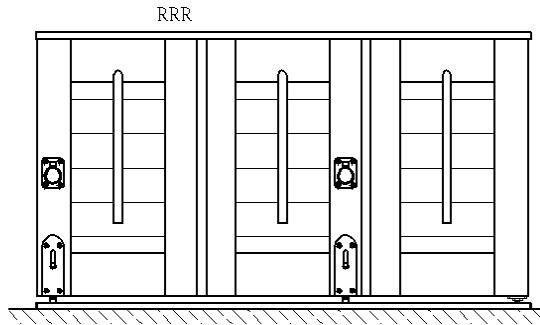
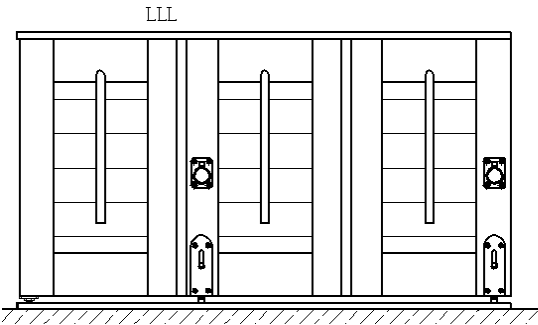
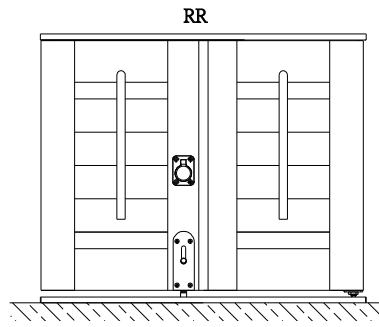
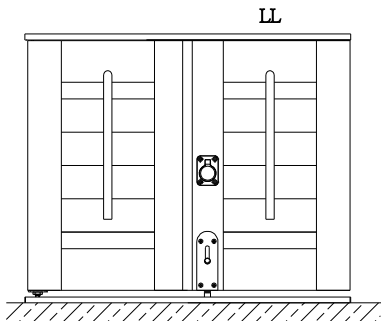
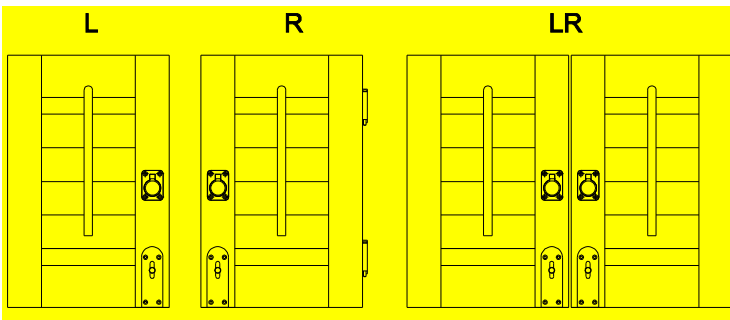
**Available Material: All**

**Color: Brush Nickel Plated**

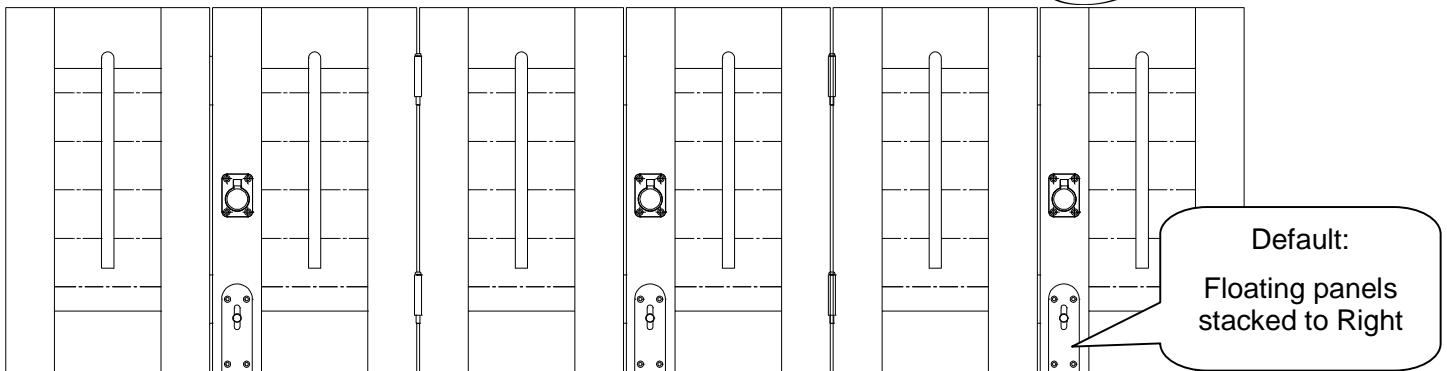


**Position: (Only available on Bottom for Track Shutters with Bottom Track; For Regular, available on Top/Bottom/both Top and Bottom)**

\*Some surcharges apply



\*Some surcharges apply



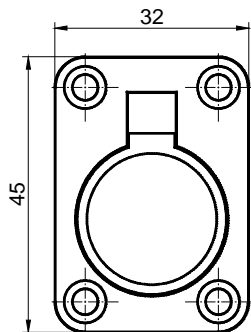
Panel Config: FFFFFFF(R)

The Panel Lock location for both track system shutters and regular shutters would be the same. The general principle is that the Panel Lock position will avoid the stile which will install the spring-loaded guide at bottom (same stile as the Wheel carrier).



**Ring pull:** for easy opening and closing

(Not available for 1.625" Stile)



**Ring pull location principle for Floating Panels:**

1. When floating panel config is in pairs, it will be split into halves, the left will be for LL and the right will be for RR. So the ring pull location for FF/FF, FF/FF/FF/FF will be same as that of panel config as LL/RR, LL/LL/RR/RR.
2. When floating panel config is FF, the ring pull location will be same as that of panel config LL.
3. When floating panel config is FFFF/FF, the ring pull location will be same as that of panel config LLLL/RR.
4. When floating panel config is singular, it will be split into 3 sections, the left and mid sections are for LL and the right section is for RR. So the ring pull location for FF/FF/FF, FF/FF/FF/FF/FF will be same as that of LL/LL/RR, LL/LL/LL/RR/RR.

\*Some surcharges apply

Please note the ring pull color will match with the hinge color.

When shutter order with Invisible hinge, the ring pull color will match with the normal hinge color.

Please see the matching chart below:

| Hinge color     | Pure White | Silk White | Bisque | Pearl | Black | Nickel Plated  | Brushed Nickel | Antique Brass | Bright Brass | Stainless Steel |
|-----------------|------------|------------|--------|-------|-------|----------------|----------------|---------------|--------------|-----------------|
| Ring Pull color | White      | White      | Bisque | Pearl | Black | Brushed Nickel | Brushed Nickel | Antique Brass | Bright Brass | Brushed Nickel  |

| Hinge color     | Crisp Linen | String | Sea Mist       | Stone Gray     | Brown Gray     | Taupe Gray     |
|-----------------|-------------|--------|----------------|----------------|----------------|----------------|
| Ring Pull color | Bisque      | Bisque | Brushed Nickel | Brushed Nickel | Brushed Nickel | Brushed Nickel |

| Color ID | Color Name   | 2.375" Hinge color (Default) | Direct Mount 3" Hinge color (Default) | T post connector color | Ring pull color | Top Track color (Default) | Invisible hinge color |
|----------|--------------|------------------------------|---------------------------------------|------------------------|-----------------|---------------------------|-----------------------|
| 001      | Pure White   | Pure White                   | Pure White                            | Pure White             | White           | White                     | Pearl Chrome Plated   |
| 002      | Extra White  | Silk White                   | Silk White                            | Silk White             | White           | White                     |                       |
| 003      | Silk White   | Silk White                   | Silk White                            | Silk White             | White           | White                     |                       |
| 004      | Bright White | Silk White                   | Silk White                            | Silk White             | White           | White                     |                       |
| 006      | Pearl        | Pearl                        | Pearl                                 | Pearl                  | Pearl           | White                     |                       |
| 007      | Ivory Lace   | Bisque                       | Bisque                                | Bisque                 | Bisque          | White                     |                       |
| 009      | Creamy       | Pearl                        | Pearl                                 | Pearl                  | Pearl           | White                     |                       |
| 012      | Crisp Linen  | Crisp Linen                  | Bisque                                | Bisque                 | Bisque          | White                     |                       |
| 016      | Butter       | Crisp Linen                  | Bisque                                | Bisque                 | Bisque          | White                     |                       |
| 019      | String       | String                       | Bisque                                | Bisque                 | Bisque          | White                     |                       |
| 030      | Moondust     | Sea Mist                     | Nickel Plated                         | Nickel Plated          | Brushed Nickel  | Anodised Silver           |                       |
| 032      | Sea Mist     | Sea Mist                     | Nickel Plated                         | Nickel Plated          | Brushed Nickel  | Anodised Silver           |                       |
| 042      | Hall Gray    | Sea Mist                     | Nickel Plated                         | Nickel Plated          | Brushed Nickel  | Anodised Silver           |                       |
| 046      | Ice          | Silk White                   | Silk White                            | Silk White             | White           | White                     |                       |
| 048      | Chai         | Nickel Plated                | Nickel Plated                         | Nickel Plated          | Brushed Nickel  | Anodised Silver           |                       |
| 049      | Stone Gray   | Stone Gray                   | Nickel Plated                         | Nickel Plated          | Brushed Nickel  | Anodised Silver           |                       |
| 051      | Brown Gray   | Brown Gray                   | Nickel Plated                         | Nickel Plated          | Brushed Nickel  | Anodised Silver           |                       |

\*Some surcharges apply

|     |                       |               |               |               |                |                 |
|-----|-----------------------|---------------|---------------|---------------|----------------|-----------------|
| 053 | Clay                  | Nickel Plated | Nickel Plated | Nickel Plated | Brushed Nickel | Anodised Silver |
| 063 | Decorators White      | Silk White    | Silk White    | Silk White    | White          | White           |
| 066 | Winchester White 2010 | Pearl         | Pearl         | Pearl         | Pearl          | White           |
| 073 | Sky Gray              | Silk White    | Silk White    | Silk White    | White          | Anodised Silver |
| 074 | Element Gray          | Sea Mist      | Nickel Plated | Nickel Plated | Brushed Nickel | Anodised Silver |
| 075 | Storm Gray            | Sea Mist      | Nickel Plated | Nickel Plated | Brushed Nickel | Anodised Silver |
| 077 | Dawn                  | Silk White    | Silk White    | Silk White    | White          | White           |
| 078 | Cloud Blue            | Silk White    | Silk White    | Silk White    | White          | White           |
| 080 | Taupe Gray            | Taupe Gray    | Nickel Plated | Nickel Plated | Brushed Nickel | Anodised Silver |
| 836 | Classic Black         | Black         | Black         | Black         | Black          | Anodised Silver |

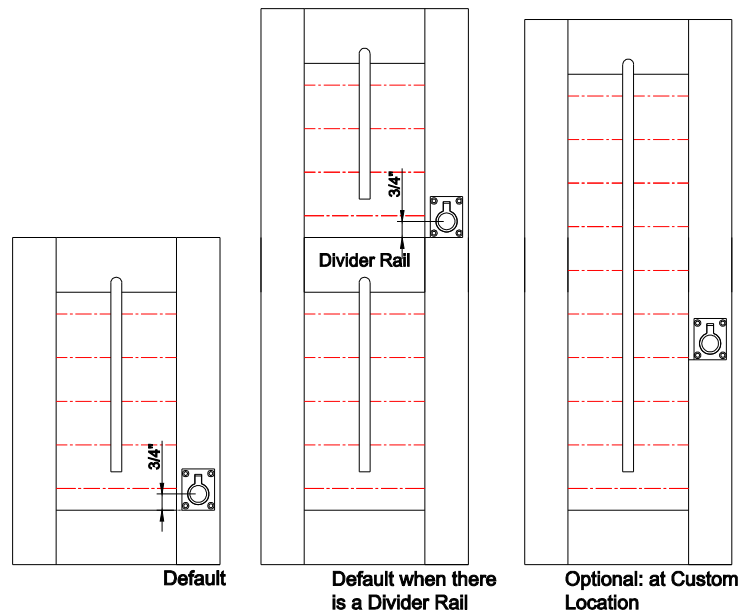
| Color ID | Color Name     | 2.375" Hinge color (Default) | Direct Mount 3" Hinge color (Default) | T post Connector color (Default) | Ring Pull color | Top Track color (Default) | Invisible hinge color |
|----------|----------------|------------------------------|---------------------------------------|----------------------------------|-----------------|---------------------------|-----------------------|
| 108      | Rustic Gray    | Nickel Plated                | Nickel Plated                         | Nickel Plated                    | Brushed Nickel  | Anodised Silver           | Pearl Chrome Plated   |
| 109      | Weathered Teak | Nickel Plated                | Nickel Plated                         | Nickel Plated                    | Brushed Nickel  | Anodised Silver           |                       |
| 110      | Limed White    | Silk White                   | Silk White                            | Silk White                       | White           | White                     |                       |
| 111      | Pebble         | Silk White                   | Silk White                            | Silk White                       | White           | White                     |                       |
| 200      | Natural        | Antique Brass                | Antique Brass                         | Nickel Plated                    | Antique Brass   | Coffee                    |                       |
| 202      | Golden Oak     | Antique Brass                | Antique Brass                         | Nickel Plated                    | Antique Brass   | Coffee                    |                       |
| 205      | Goldenrod      | Antique Brass                | Antique Brass                         | Nickel Plated                    | Antique Brass   | Coffee                    |                       |
| 212      | Dark Teak      | Antique Brass                | Antique Brass                         | Nickel Plated                    | Antique Brass   | Coffee                    |                       |
| 215      | Cordovan       | Antique Brass                | Antique Brass                         | Nickel Plated                    | Antique Brass   | Coffee                    |                       |
| 220      | New Ebony      | Antique Brass                | Antique Brass                         | Nickel Plated                    | Antique Brass   | Coffee                    |                       |

\*Some surcharges apply

|     |              |               |               |               |                |                 |
|-----|--------------|---------------|---------------|---------------|----------------|-----------------|
| 221 | Black Walnut | Antique Brass | Antique Brass | Nickel Plated | Antique Brass  | Coffee          |
| 227 | Red Oak      | Antique Brass | Antique Brass | Nickel Plated | Antique Brass  | Coffee          |
| 229 | Rich Walnut  | Antique Brass | Antique Brass | Nickel Plated | Antique Brass  | Coffee          |
| 230 | Old Teak     | Antique Brass | Antique Brass | Nickel Plated | Antique Brass  | Coffee          |
| 237 | Wenge        | Antique Brass | Antique Brass | Nickel Plated | Antique Brass  | Coffee          |
| 242 | Auburn       | Antique Brass | Antique Brass | Nickel Plated | Antique Brass  | Coffee          |
| 246 | Matte Black  | Black         | Black         | Black         | Black          | Anodised Silver |
| 248 | Pretzel      | Antique Brass | Antique Brass | Nickel Plated | Antique Brass  | Coffee          |
| 250 | Sumatra      | Antique Brass | Antique Brass | Nickel Plated | Antique Brass  | Coffee          |
| 252 | Toffee       | Antique Brass | Antique Brass | Nickel Plated | Antique Brass  | Coffee          |
| 254 | Driftwood    | Nickel Plated | Nickel Plated | Nickel Plated | Brushed Nickel | Anodised Silver |
| 255 | Silver Gray  | Nickel Plated | Nickel Plated | Nickel Plated | Brushed Nickel | Anodised Silver |
| 256 | Mist         | Silk White    | Silk White    | Silk White    | White          | White           |
| 862 | French Oak   | Antique Brass | Antique Brass | Nickel Plated | Antique Brass  | Coffee          |

**Position:** For different panel configuration, please refer to the location of Panel Lock to show on which stile the pull will be fixed.



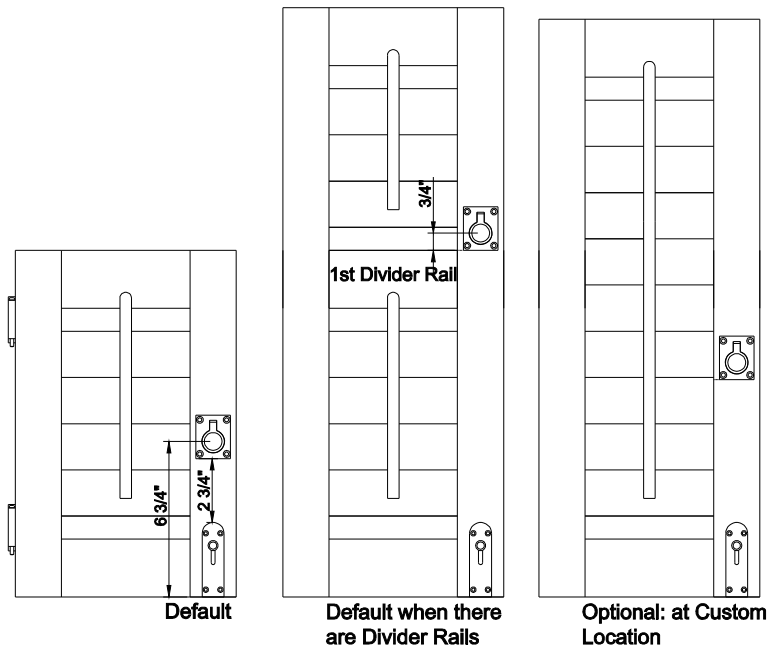


**Position:**

- A. Above Bottom Rail (Default)
- B. Above 1<sup>st</sup> Divider Rail (Default when there are Divider Rails)
- C. Custom Location

If both Panel Lock & ring pull are specified, the distance between them is  $2\ 3/4"$ , and the ring pull location is  $6\ 3/4"$  from the bottom of panel.

When there is no mid rail, ring pull will be just on the top of Panel Lock ( $2\ 3/4"$  above Panel Lock) as default location; if there are mid rails, bottom of ring pull lines up with top of the 1<sup>st</sup> mid rail as default location.



**Position:**

- A.  $2\ 3/4"$  Above Panel Lock (Default when both Ring Pull and Panel Lock are specified)
- B. Above 1<sup>st</sup> Divider Rail (Default when there are Divider Rails)
- C. Custom Location

**Measurements:**

- Window size:
  - Measure from the bottom of the window to the center of the ring pull.
- Max frame-to-frame:
  - Measure from the bottom of the frame to the center of the ring pull.

**Invisible Hinge\*:**



1. Invisible hinge is not available for Multifold panels.
2. Invisible hinge can only be between the panel & frame/T post, connections from panel to panel will use a regular hinge.
3. Color Option: Only available for Pearl Chrome Plated.

| Frame Options                        | Hinge | Notes |
|--------------------------------------|-------|-------|
| 2" Camber Deco Frame                 | Y     | /     |
| 2" Classic Deco Frame                | Y     | /     |
| 2.5" Mission Deco Frame              | N     | /     |
| 3" Ridge Deco Frame                  | N     | /     |
| Vintage L Frame W / 1/4" Light Block | N     | /     |
| Vintage L                            | N     | /     |
| Vintage L Frame w/ 1/2" Buildout     | N     | /     |
| Vintage L Frame w/ 1" Buildout       | N     | /     |
| Beaded L w 1/4"light block           | Y     | /     |
| Beaded L                             | Y     | /     |
| Beaded L Frame w/ 1/2" Buildout      | Y     | /     |
| Beaded L Frame w/ 1" Buildout        | Y     | /     |
| Tilt out Z Frame                     | N     | /     |
| 1.25" Beaded Z Frame                 | Y     | /     |
| 1.5" Bullnose Z Frame                | Y     | /     |
| 2" Bullnose Z Frame                  | Y     | /     |
| 2" Bel Air Z Frame                   | Y     | /     |

\*Some surcharges apply

|  |   |   |
|--|---|---|
| 3" Crown Z Frame   | N | /   |
| 7/8" Vintage Hang Strip  | N | /   |
| 1" Chamfer T-Post w/ 1/4" Light Block(for Deco)                  | Y | Only available with hinge on one side, for example, LTL is available, but RTL is not. |
| 1" Chamfer T-Post w/3/4" Light Block(for L/Z/HS)                 | Y |   |
| 1" Chamfer T-Post w/ 1/4" thick 3/8" wide Light Block(for Deco)  | Y |   |
| 1" Chamfer T-Post w/3/4" thick 3/8" wide Light Block(for L/Z/HS) | Y |   |
| 1 3/4" Chamfer T-Post w/1/4" Light Block(for Deco)               | Y |   |
| 1 3/4" Chamfer T-Post w/3/4" Light Block(for L/Z/HS)             | Y |   |
| Corner Post w/1/4" Light Block(for Deco)                         | Y | /   |
| Corner Post w/3/4" Light Block(for L/Z/HS)                       | Y | /   |
| Bay Post w/1/4" Light Block(for Deco)                            | Y | /   |
| Bay Post w/3/4" Light Block(for L/Z/HS)                          | Y | /   |

| Invisible Hinge Qty |           |
|---------------------|-----------|
| Panel Height (H)    | Hinge Qty |
| H<=48"              | 2         |
| 48"<H<=78"          | 3         |
| 78"<H<=96"          | 4         |
| 96"<H<=120"         | 5         |
| H>120"              | 6         |

Preinstallation:

Panels and frames will be packaged individually, and the hinge is preinstalled onto the frame/post, with the screws for the other half part on the panels in the hardware box.

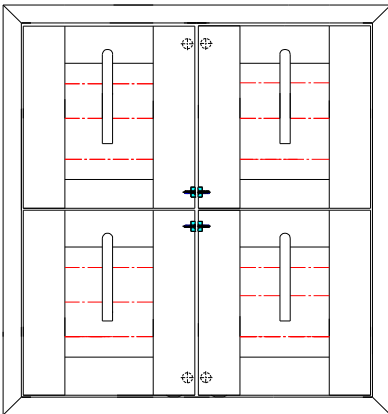
**Side Magnet: Available for Butt, rabbet and Astragal stile**



Side Magnets will be applied in following situation:

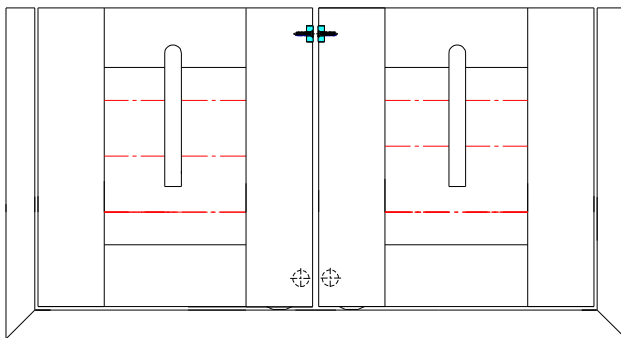
1. Double Hung shutter but without horizontal T post:

Side magnets will be applied to the meeting stiles of the L and R panel. (Default)



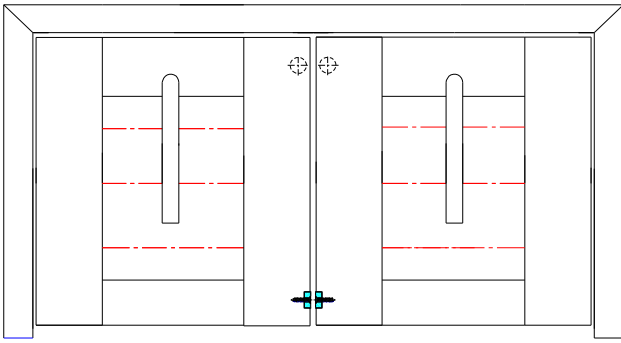
2. Café Shutter

Side magnets will be applied to the meeting stiles of the L and R panel. (Default)



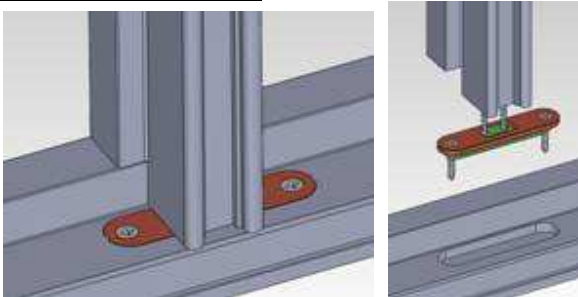
3. No frame or light block or L-shape striker plate on either top or bottom, or if larger than standard top or bottom gap is requested.

Side magnets will be applied to the meeting stiles of the L and R panel. (Optional)



4. Note: if panels only with side magnets and there is no standard magnet on the back of panels, panels may open for external factors.

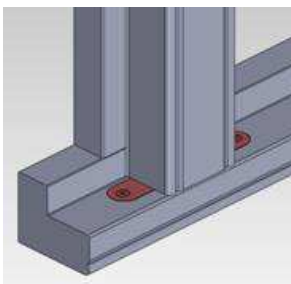
### **T-Post Connector**



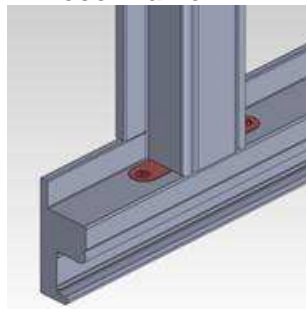
- Available colors: Pure White; Silk White; Pearl; Bisque; Black; Nickel-Plated.
- Available for all types of T Posts (custom-width T posts excluded).

**T Post Connector can be used with the following Frames.**

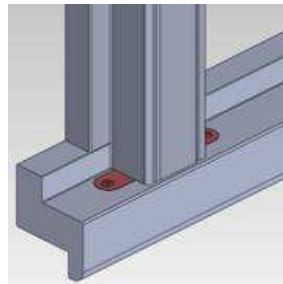
**L Frame:**



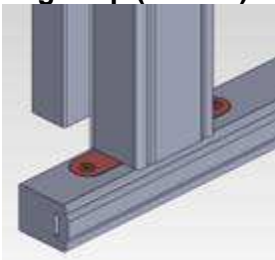
**Deco Frame:**



**Z Frame:**



**Hang Strip (Beside)**



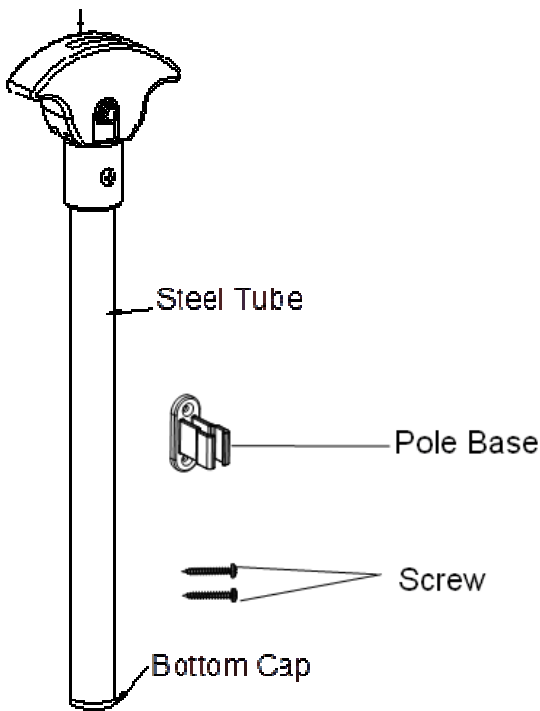
Note:

1. For Horizontal T Post, Hang Strip (Behind) and shutter with 1.5"/2" Sill, T Post connector is not available and T Post will be installed by screws instead;
2. If there is a panel lock which may interfere with the T-Post connector, all the T-Posts for the entire shutter will be installed with screws and the frames to be pre-drilled, even in cases where the panel lock may only interfere with one T-Post;
3. The screw color is nickel-plated regardless of the color of the T Post connector;
4. T post connectors can only be installed on a straight piece, and screws will be used instead for T Post installed on a curved or raked piece.

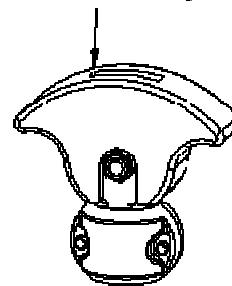
**Optional Poles:**

1. Terminology

Pole with Attachment



Attachment Only



Component

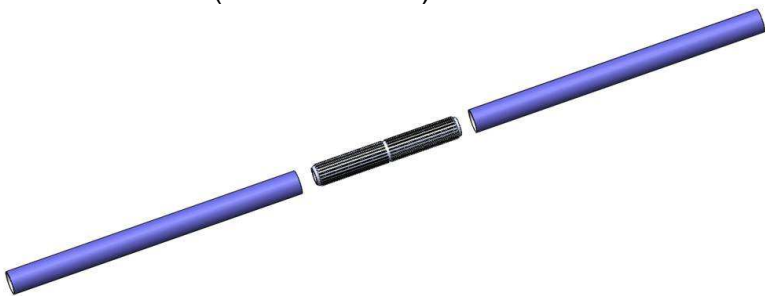
| NO. | Name                 | Note   |
|-----|----------------------|--|
| 1   | Pole with Attachment | Steel tube, Pole Base and Bottom Cap included<br>*Surcharge applies.   |
| 2   | Attachment only      | ●Compatible with extension poles found in most home improvement stores.<br>●Screw thread (3/4") and thread pitch (1/5")<br>*Surcharge applies. |

\*Some surcharges apply

## 2. Available Pole Length

|                    |                            |
|--------------------|----------------------------|
|                    | 2pcs Combined by Connector |
| Pole length (inch) | 53"                        |

The Connector (the center one):



The Finished Product:

Pole with Plastic Tube:



# Bi-fold 180™

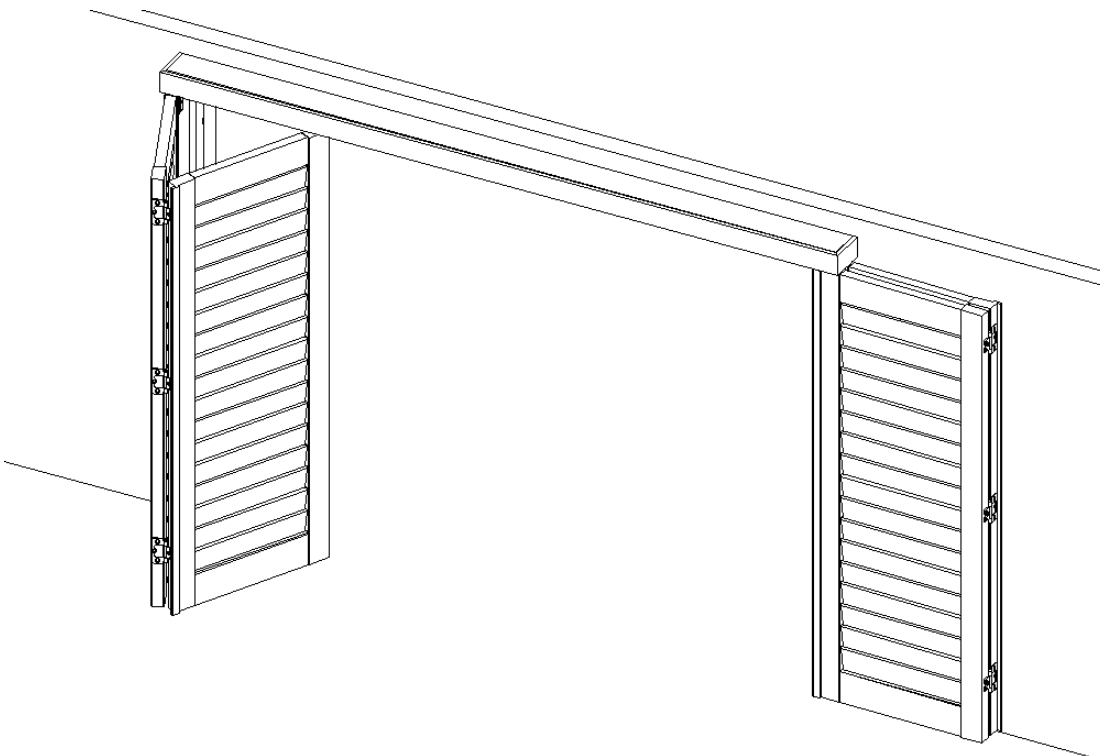
## Guidelines and Specs:

| <u>Description</u>                    | <u>Minimum</u> | <u>Maximum</u> |
|---------------------------------------|----------------|----------------|
| Single-Panel Width<br>(Bi-fold Track) | 6"             | 26"            |
| Single-Panel Width<br>(LLL/RRR)       | 6"             | 20"            |
| Single-Panel Height                   | 10"            | 132"           |

### Outside Mount

Max frame-to-frame width: window width + 3 1/2"

Max frame-to-frame height: window height + 4 1/2"

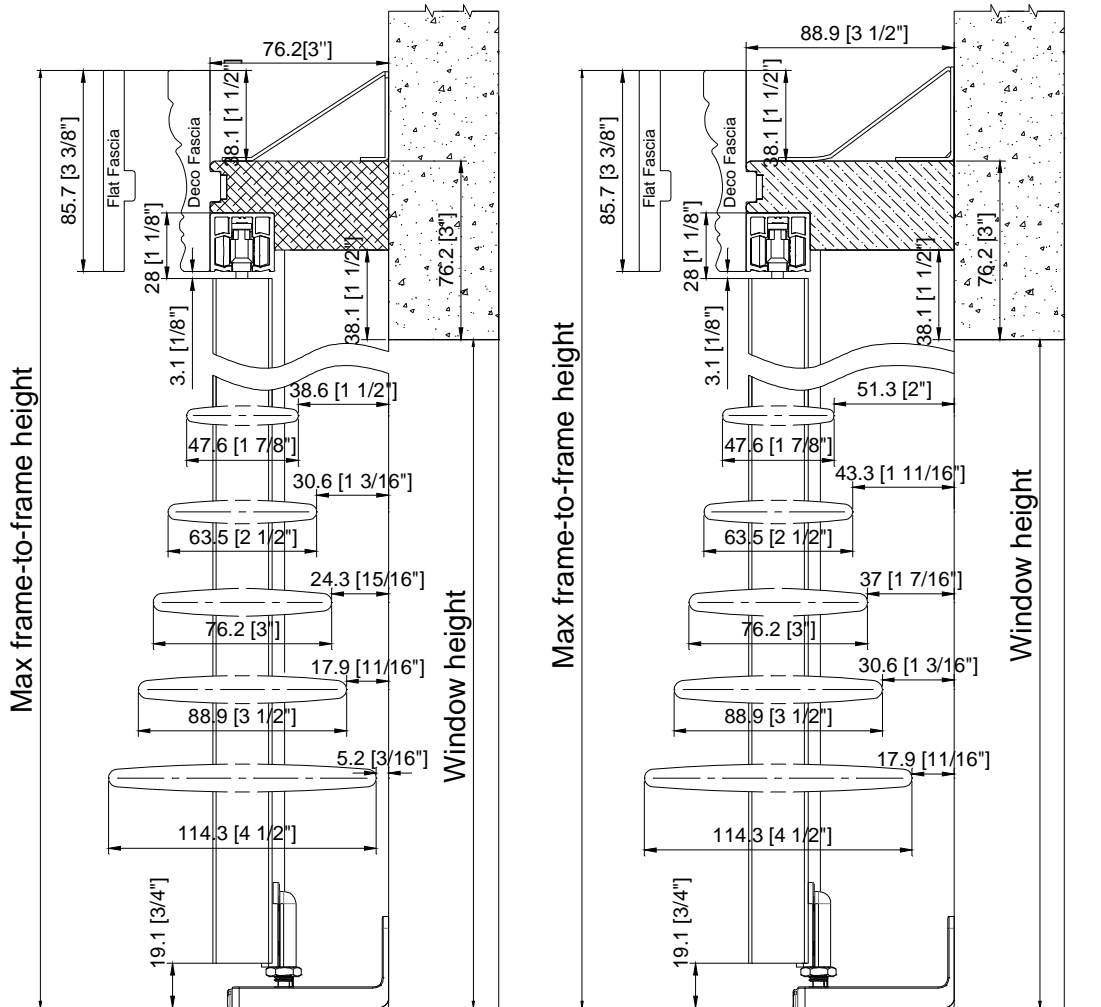


- Track is pre-installed on the header; standard 1 track only.



**Mounting Options:** Outside Mount only

**Side View**

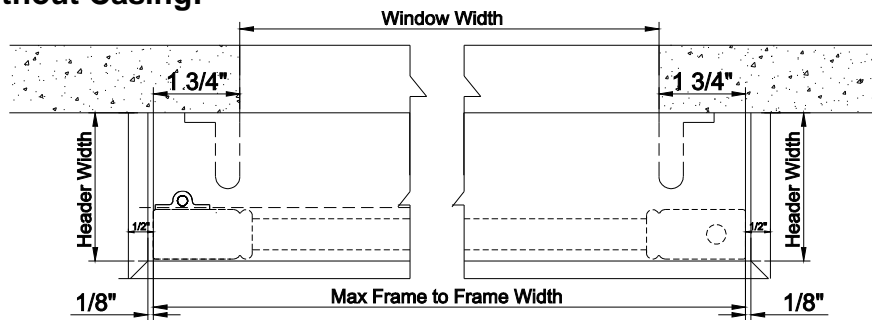


**Top View**

**Without Casing:**

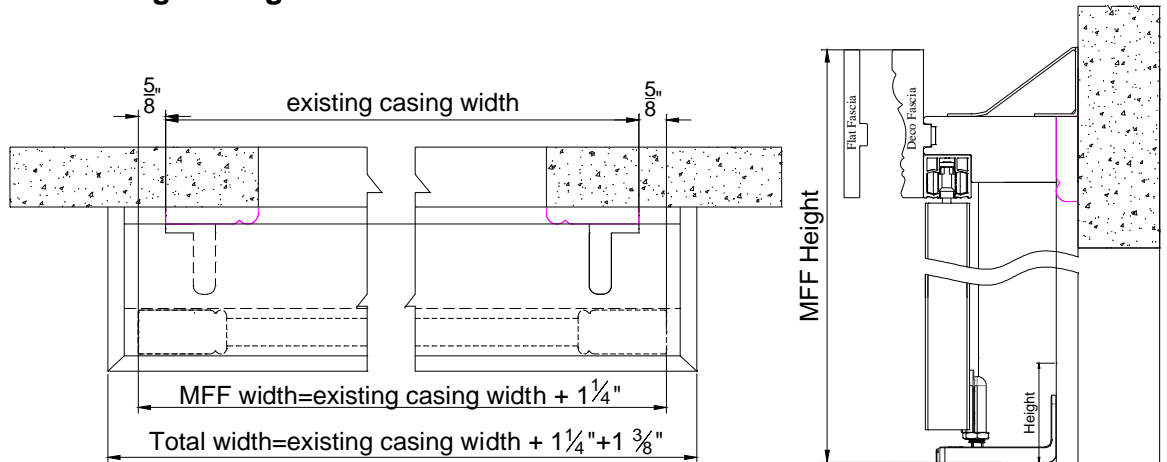
Note:

- ◇ Fascia return will protrude the panel about 1/2" for each side.
- ◇ The header will protrude the panel about 1/8" for each side.
- ◇ Header, light blocks, and bottom pivot bracket(s) must be installed on a flat surface.

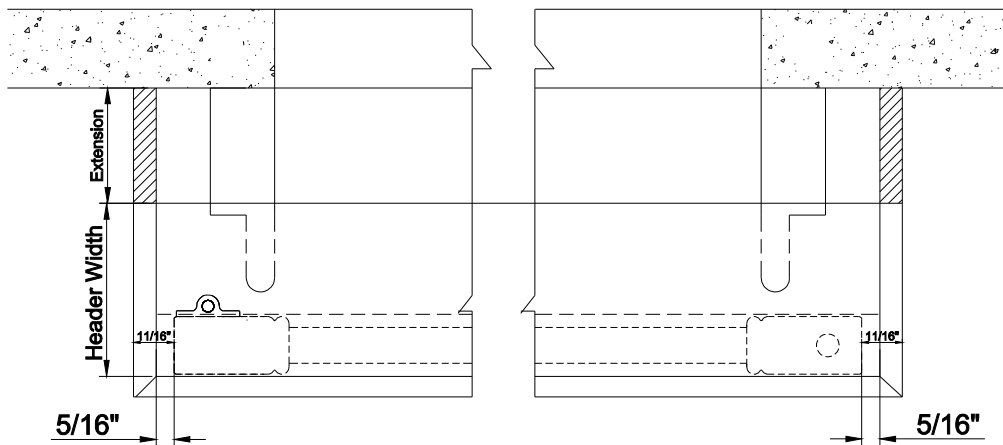


# Normandy Shutters

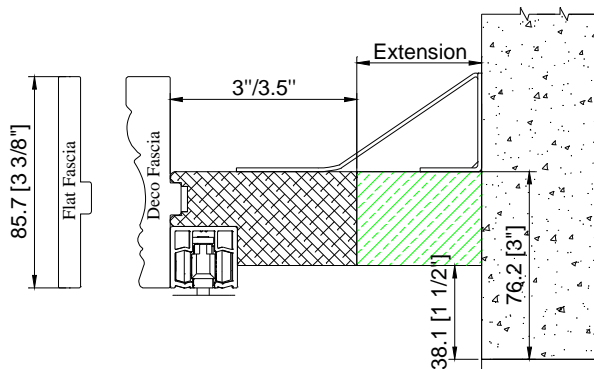
## With Existing Casing:



- ✧ Header Extension: Optional
- ✧ Custom extension up to 2" for Header
- ✧ When extension is needed, the header will protrude the panel  $\frac{5}{16}$ " for each side and the fascia return will protrude the panel  $\frac{11}{16}$ " for each side.

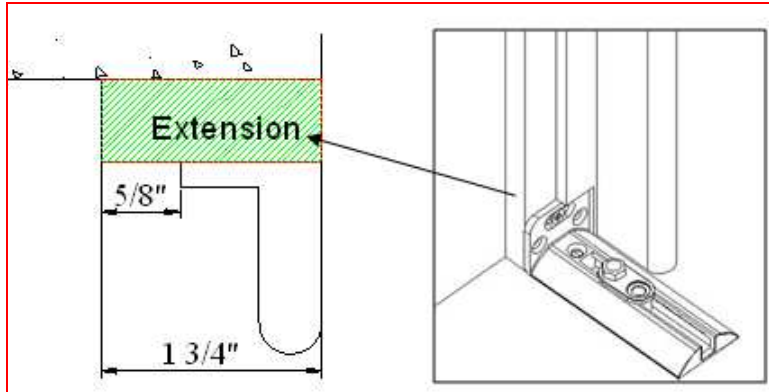


- ✧ The extension will be pre-attached.

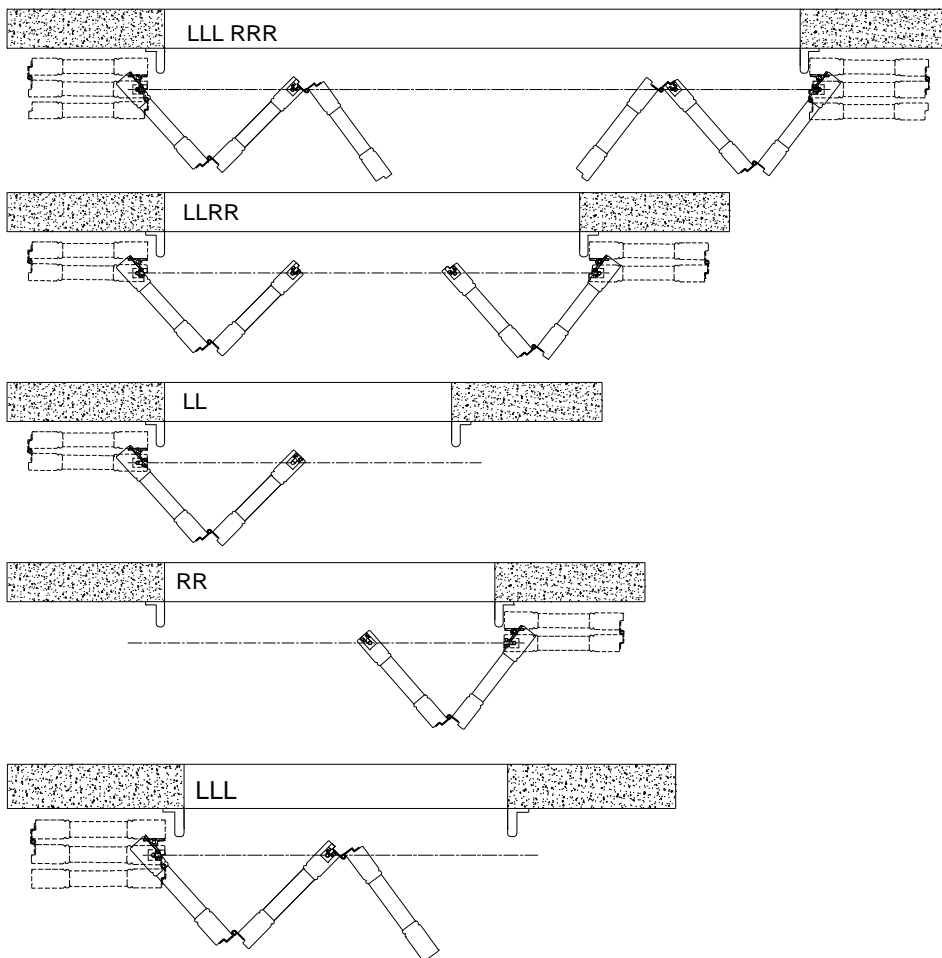


# Normandy Shutters

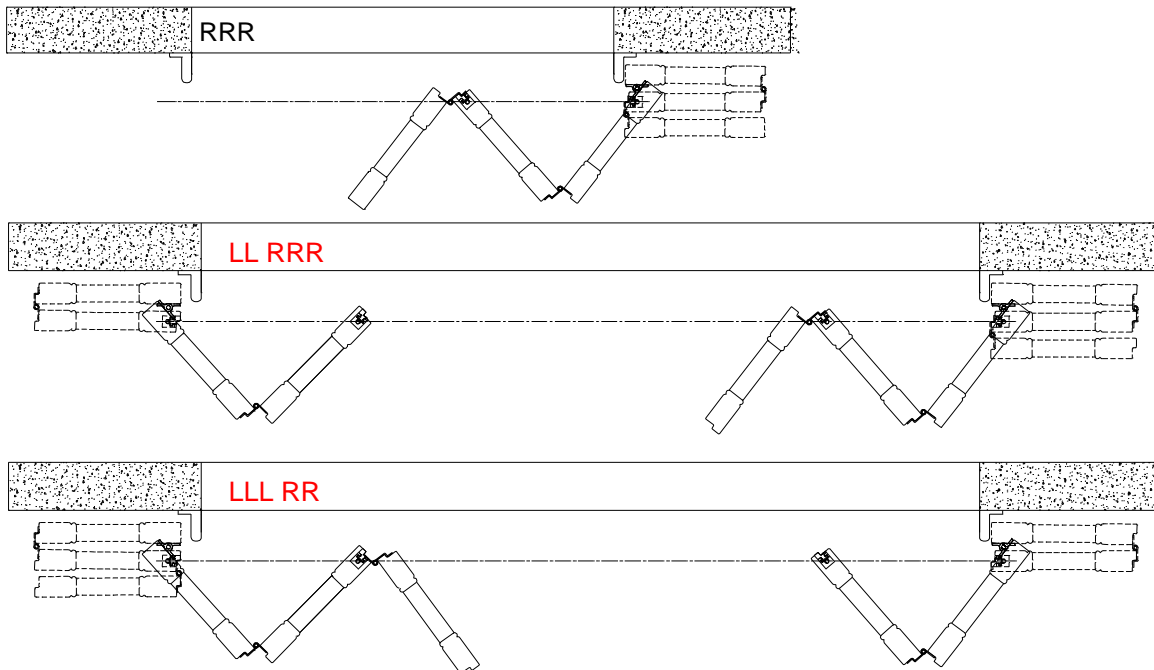
For 180 Bi-fold, if Bottom Pivot L Bracket is required, the extension for the L shape light block will be 1 3/4" in width. Please see picture below:



**Panel Configuration : Only 2", 2 1/4" rabbet and butt stiles are available. Center stile is not available.**



# Normandy Shutters



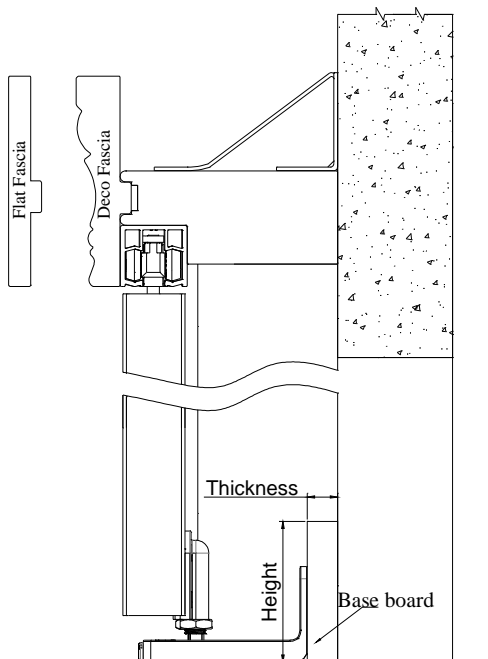
## Notes:

If there is no baseboard to the wall, 3" header can be used.

If there is baseboard to the wall, then it should be as below:

1. If base board thickness is less or equal to 5/8", 3 1/2" header can be used.
2. If base board thickness is over 5/8", it is suggest using the 3" header with build out. And the build out thickness=base board thickness-1/8".

Please see the drawing below:



# *Normandy Shutters*

## 180° Bi-fold Track Shutters Framing Materials

| Type                                    | Header Dimension | Top Fascia Dimension | L Shape Light Block Strip Dimension |
|---|------------------|----------------------|-------------------------------------|
| Header & Top Fascia & Light Block Strip | 3"               | 3 3/8"               | 1 9/16"                             |
|   | 3 1/2"           |                      | 2 1/16"                             |

## 180° Bi-fold Track Shutters Hardware Box

| Parts   |
|---|
| Wrench  |
| Hinge Pin   |
| Support L Bracket (based on the length of header)   |
| 2 ½ " screws for support L bracket                  |
| ¾ " screws for support L bracket                    |
| Bottom Pivot Bracket                                |
| 1 ½ " screws for bottom pivot bracket               |
| 2 ½ " screws for Frame with pre-drilled screw holes |

## Bi-fold 90

### Guidelines and Specs:

| <u>Description</u>                                     | <u>Minimum</u> | <u>Maximum</u> |
|--|----------------|----------------|
| Single-Panel Width<br>(Bi-fold Track)                  | 6"             | 26"            |
| Single-Panel Width<br>(Multifold track up to 4 panels) | 6"             | 20"            |
| Single-Panel Height                                    | 10"            | 132"           |

#### Outside Mount

Max frame-to-frame width: window width + 3 1/2"

Max frame-to-frame height: window height + 4 1/2"

#### Semi-Inside Mount

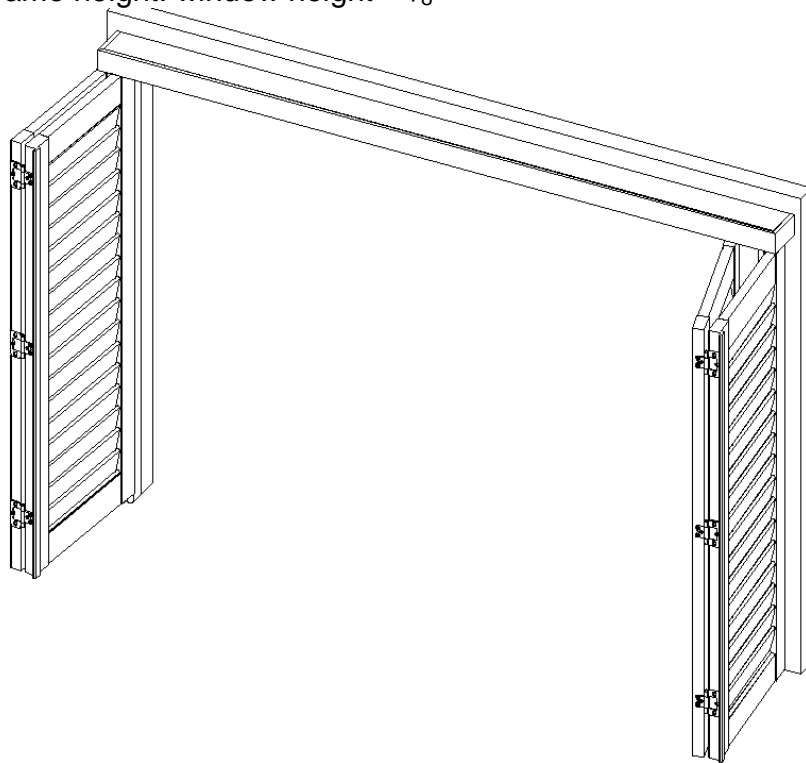
Max frame-to-frame width: window width - 1/8"

Max frame-to-frame height: window height + 1 3/8"

#### Inside Mount

Max frame-to-frame width: window width - 1/8"

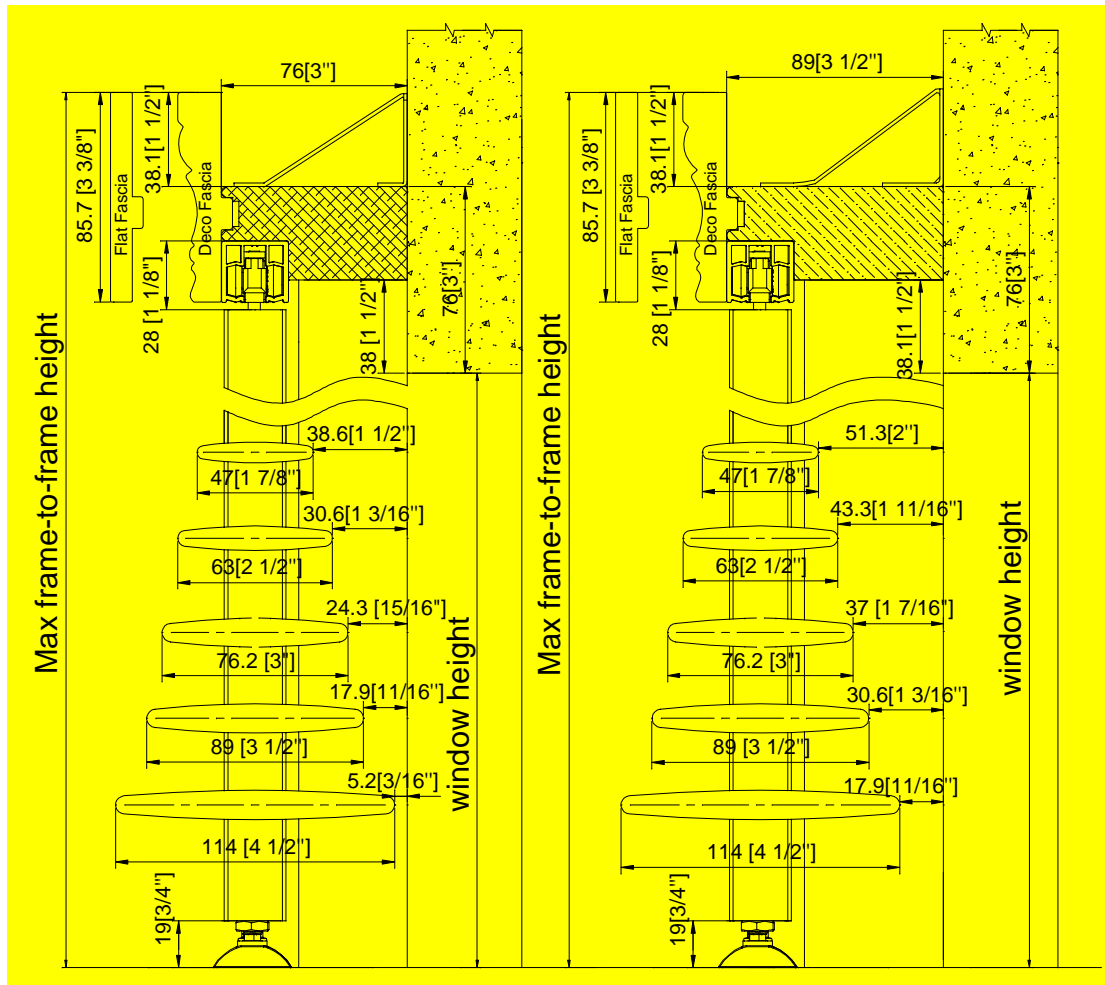
Max frame-to-frame height: window height - 1/8"



Track is pre-installed on the header; standard 1 track only.

**Mounting Options: Outside Mount**

**Side View**

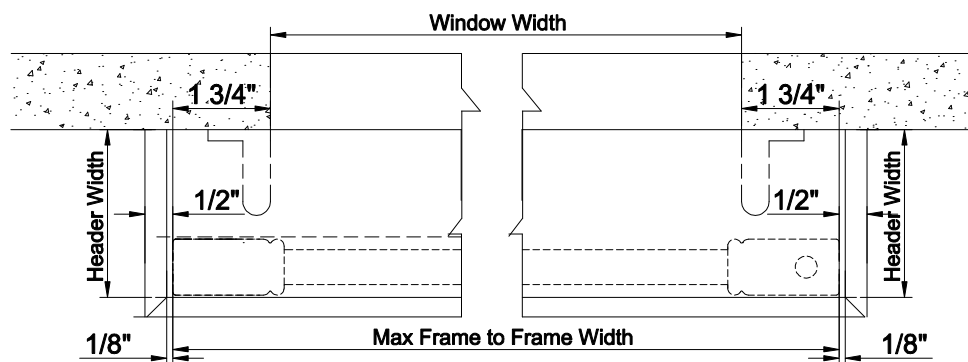


**Top View**

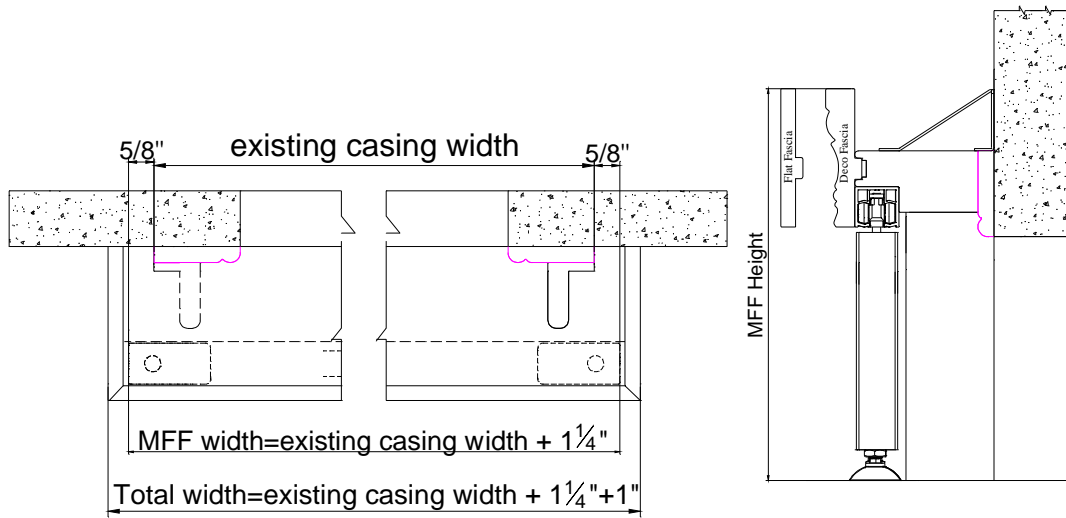
**Without Casing:**

Note:

- ◇ Fascia return will protrude the panel about 1/2" for each side.
- ◇ The header will protrude the panel about 1/8" for each side.
- ◇ Header, light blocks, and bottom pivot bracket(s) must be installed on a flat surface.

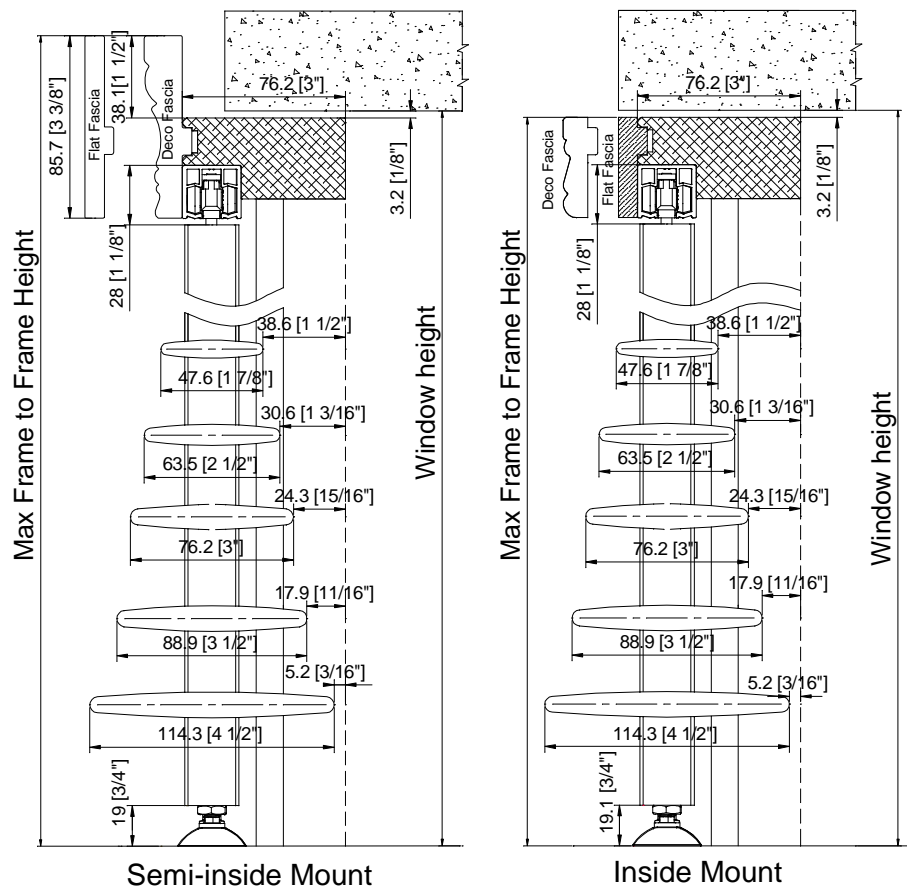


**With Existing Casing:**



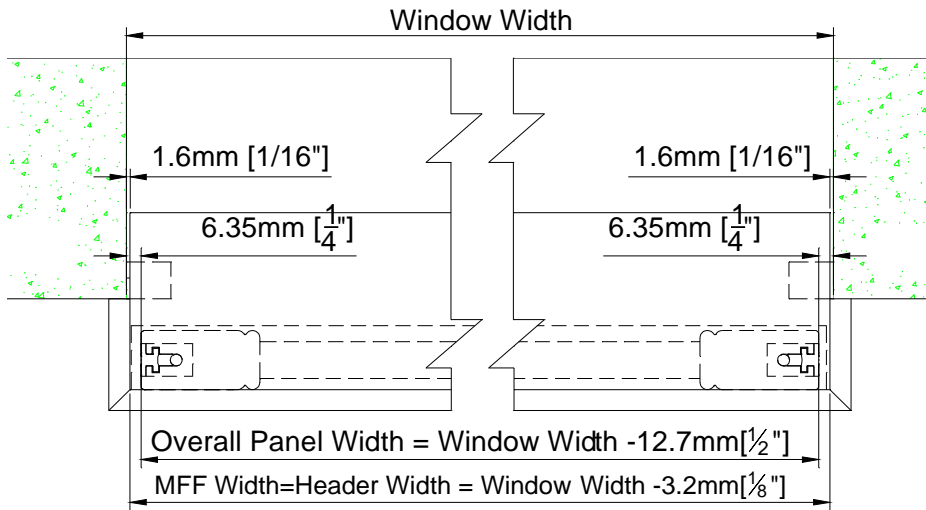
**Semi-Inside/Inside Mount**

**Side View**

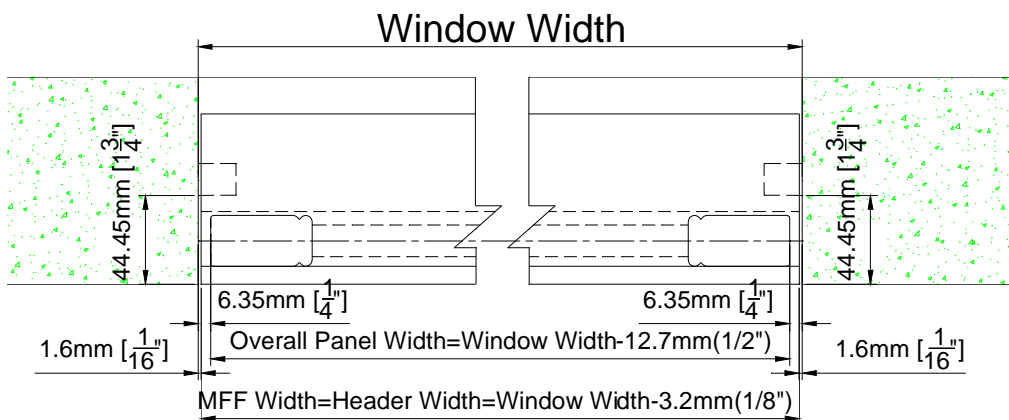




Semi-Inside Mount Top View

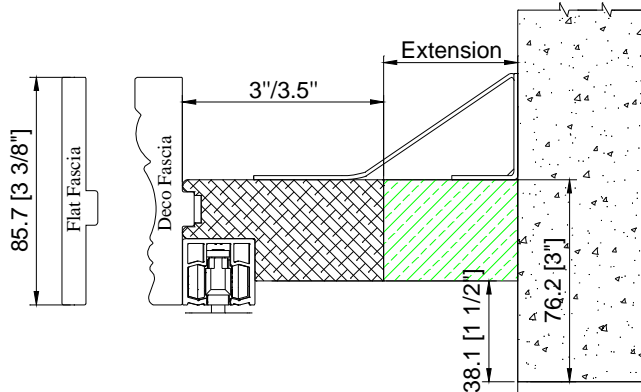


Inside Mount Top View



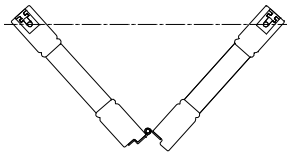
- ✧ Header Extension: Optional.
- ✧ Custom extension up to 2" for Header
- ✧ The extension will be pre-attached.

# Normandy Shutters

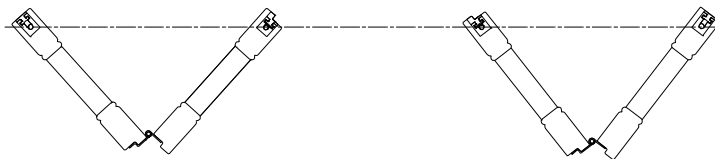


**Panel Configuration: Only 2", 2 1/4" rabbet and butt stiles are available. Center stile is not available.**

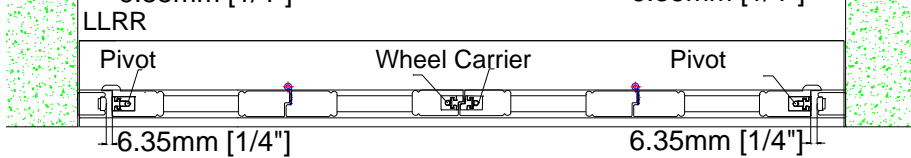
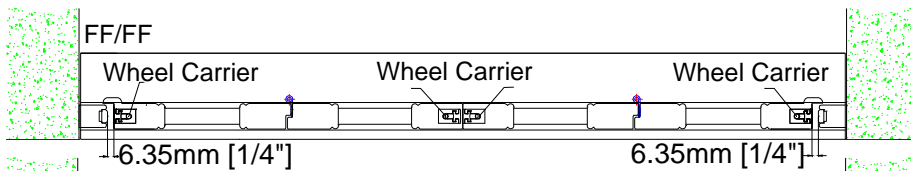
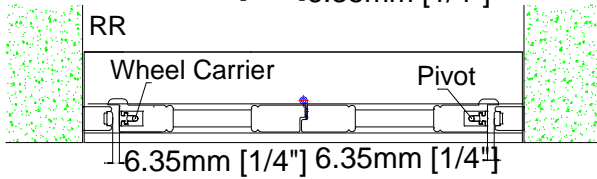
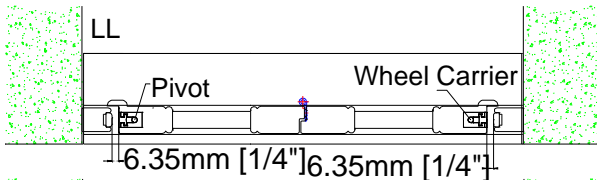
LL or RR



LLRR

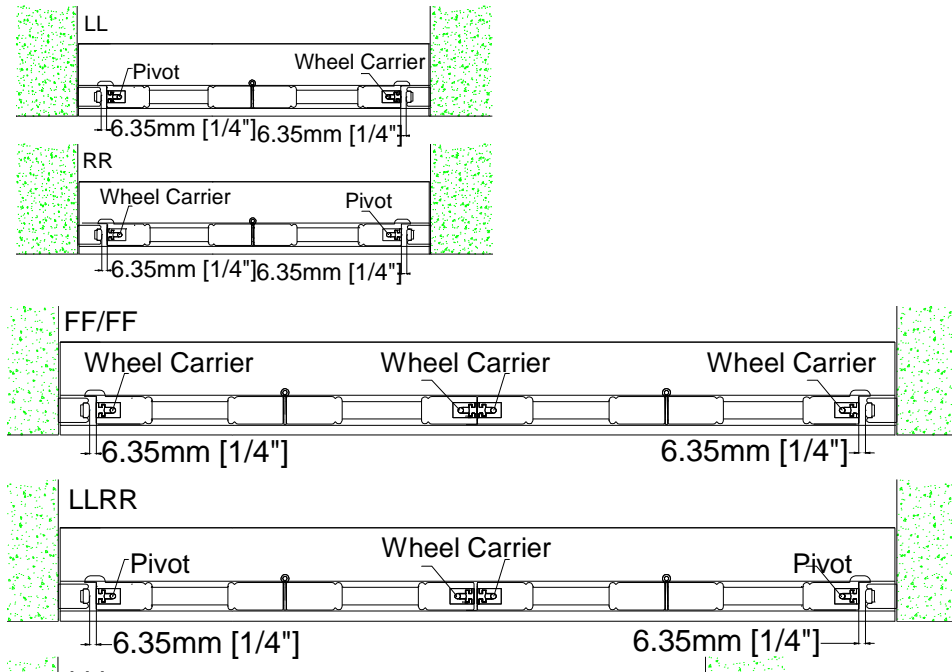


**Optional (Hang Strip for Inside Mount Only)**



# Normandy® Shutters

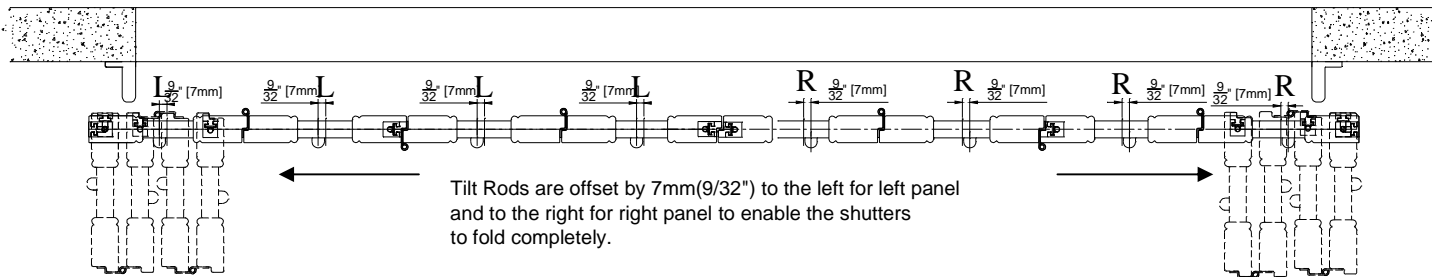
Note: When Butt/rabbit Stile is required, the stile next to the hang strip will be astragal stile.



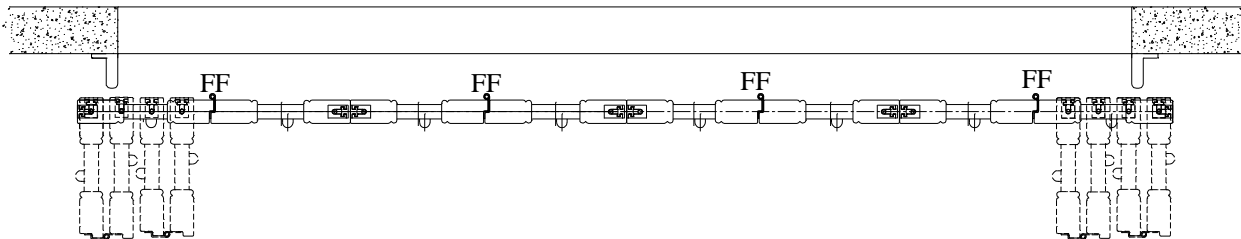
## 90° Multi-Fold Track Shutters (Wood only)

Maximum single panel width for multi-fold is 20"

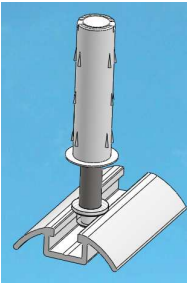
Panel Configuration: LLLL, RRRR, or LLLLRRRR



## 90° Floating Panels



# Normandy Shutters



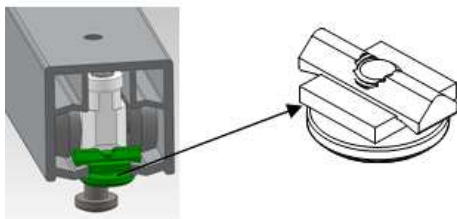
- Two or four panels can be hinged together, fold and slide to either direction
- Application comes with wheel carrier, spring loaded guide and floor track
- Can be used on large window

**Note:**

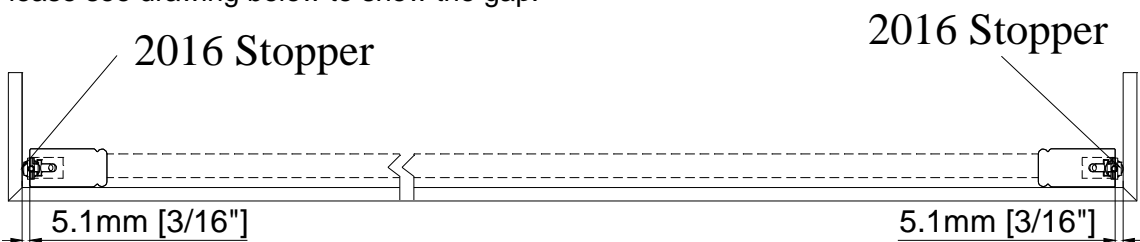
1. For 90° Floating Panels outside mount/semi-inside mount without side boards, the 2016 Stopper will be supplied by default. The gap between the fascia return / end of top track and the panel is 5mm each side.

The 2016 stopper can also be used in the center or any position of the top track as an option.

**2016 Stopper**



Please see drawing below to show the gap.



2. When rabbit stile required, the meeting stile of unhinged stile will be butt stile by default.

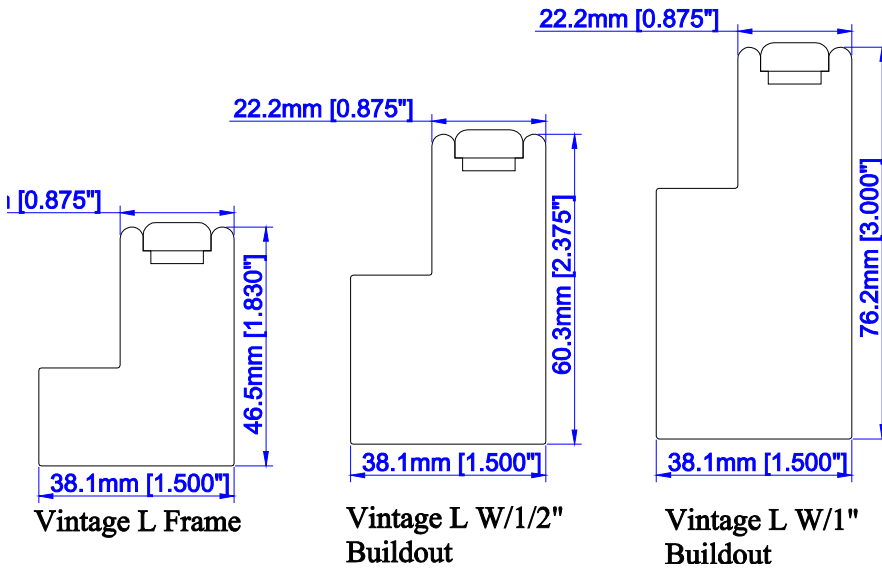
**90 Degree Bi Fold Track Shutters Framing Materials**

| Type                                    |         | Header Dimension | Top Fascia Dimension | Light Block Strip Dimension | Hang Strip Dimension |
|---|---------|------------------|----------------------|-----------------------------|----------------------|
| Header & Top Fascia & Light Block Strip | OM      | 3"               | 3 3/8"               | 1 9/16"                     | 1.08"x0.875"         |
|   |         | 3 1/2"           |                      | 2 1/16"                     |                      |
|   | Semi-IM | 3"               | 5/8"x3/4"            |                             |                      |
|   | IM      | 3"               | 1 7/8"               | 5/8"x3/4"                   |                      |

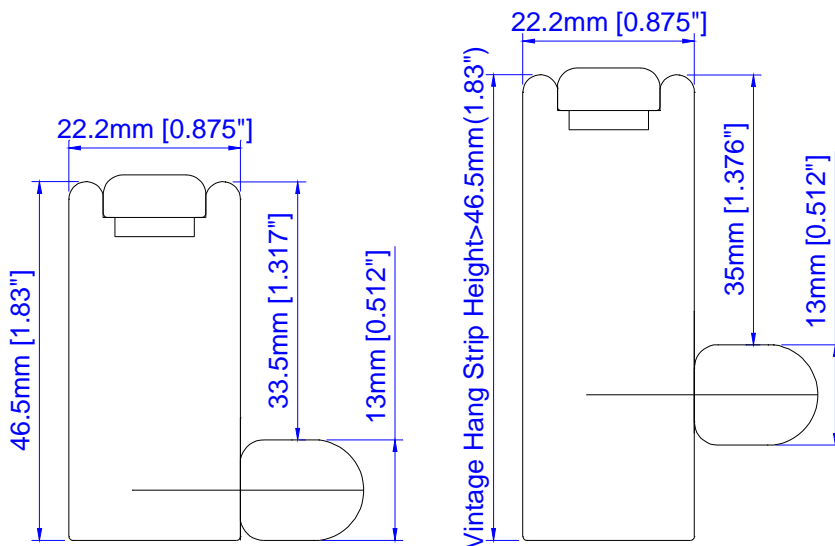
Note: It will be L shape light block strip for outside mount.

**Frame Hinged Bifold**

**Available Stile: Rabbet Stile Only**  
**Available Frame type**



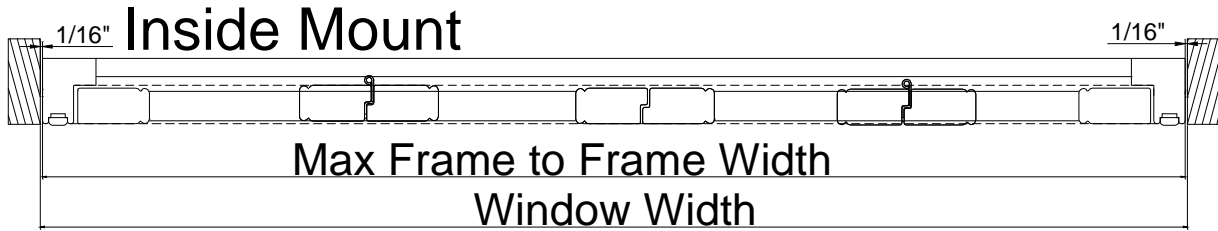
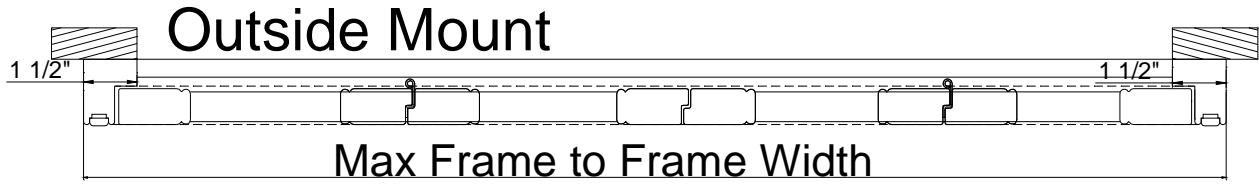
**Vintage Hang Strip with 13mm light block:** For single direction shutter with even panel qty, the frame on the unhinged side will be Vintage Hang Strip with 13mm [0.512"] light block, the height of the Vintage Hang Strip will match with that of the hinged side frame.



# Normandy Shutters

## Top View

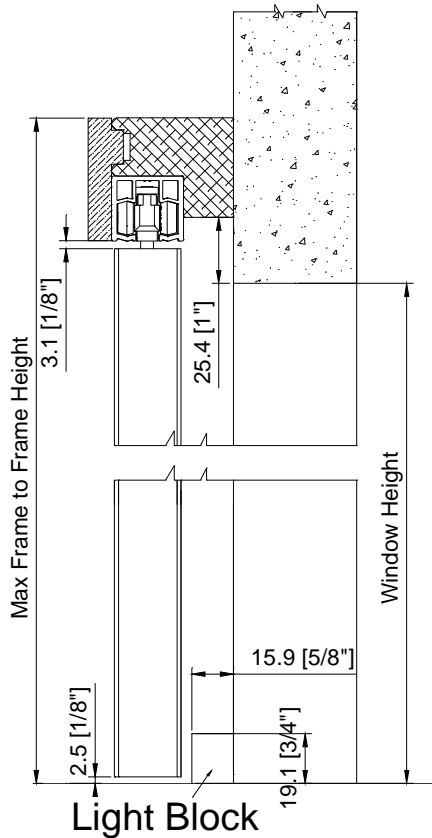
Hinged at Left or Right with wheel assembly at top;



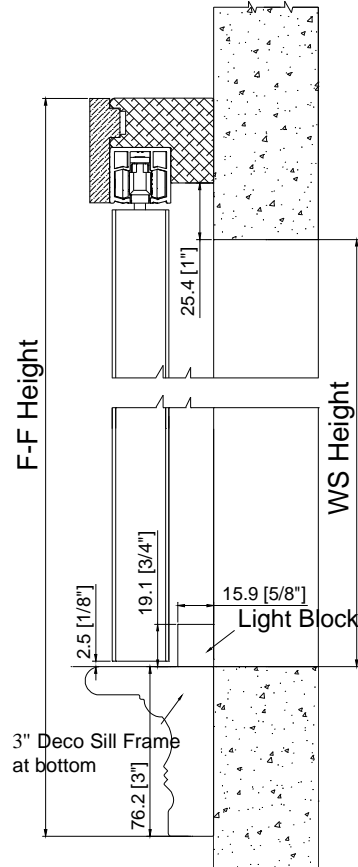
## Side View

Outside Mount

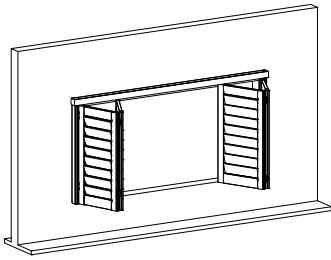
3-Sides + bottom light block



3-Sides + 3" Deco Sill Frame



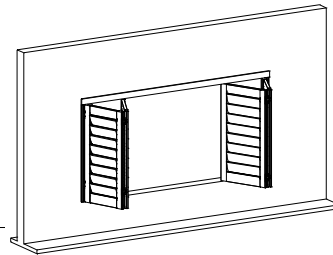
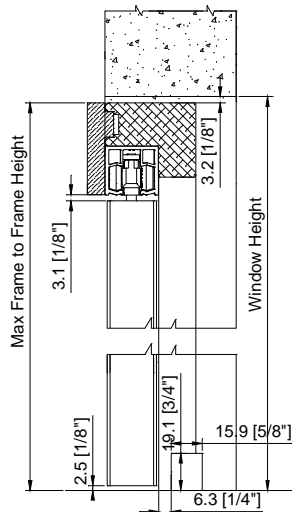
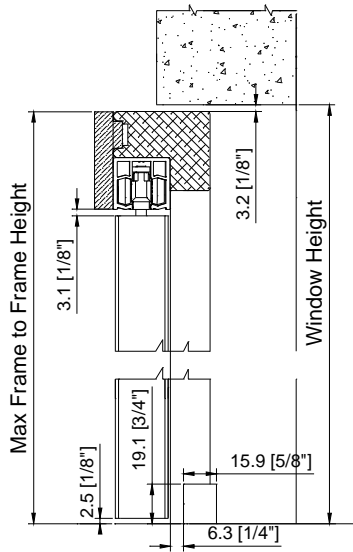
# Normandy Shutters



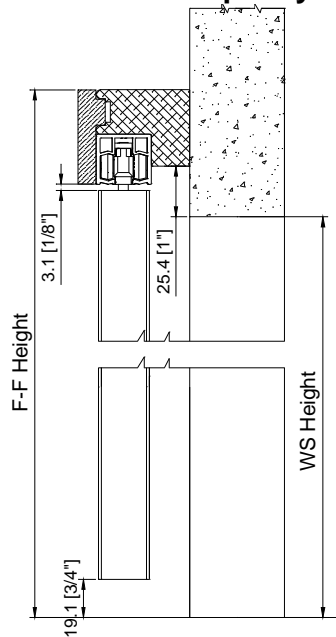
Note: For OM Frame Hinged Bifold shutter not to use as a door, if there is no existing sill at the bottom of the window opening, it is recommended to have the 3" Deco Sill Frame at the bottom.

Semi-Inside

Inside Mount

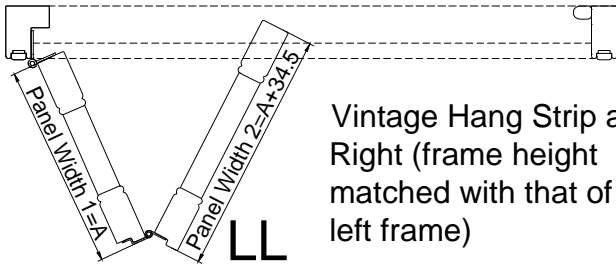


For frame hinged bifold track shutter used as door, the bottom gap will be 19mm by default. Please specify "Used As Door" on the order form.

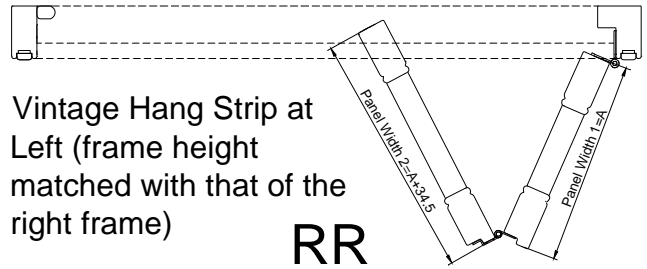


# Normandy Shutters

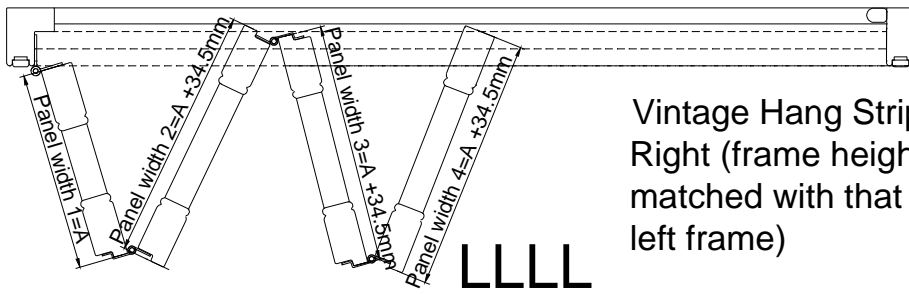
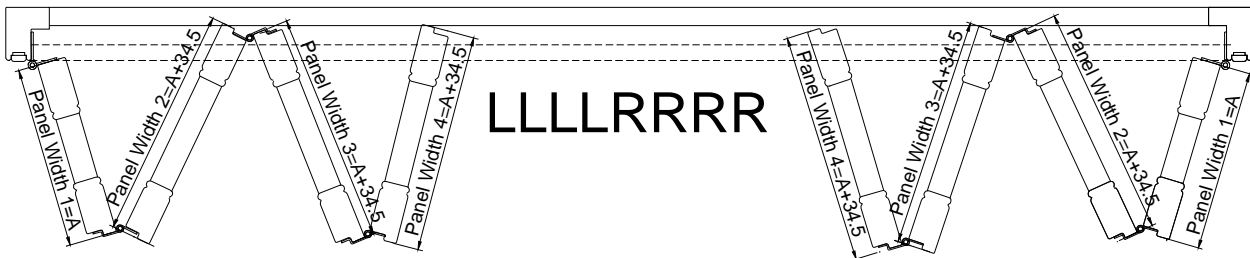
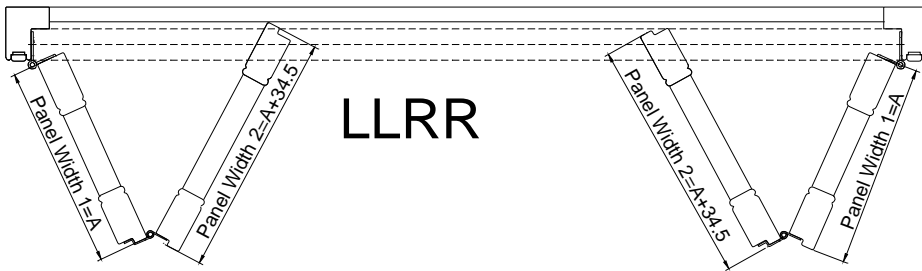
## Panel Configuration (uneven panel width)



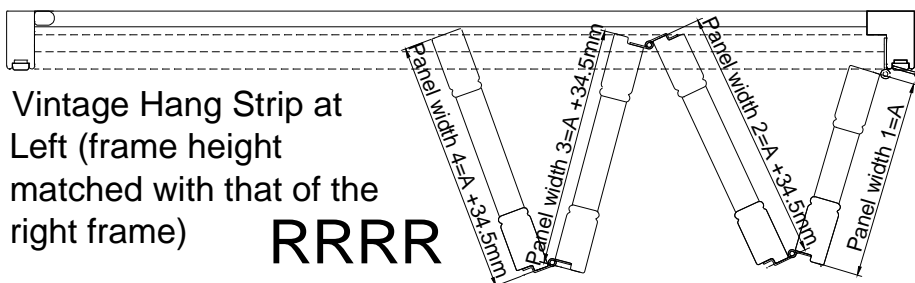
Vintage Hang Strip at Right (frame height matched with that of the left frame)



Vintage Hang Strip at Left (frame height matched with that of the right frame)



Vintage Hang Strip at Right (frame height matched with that of the left frame)



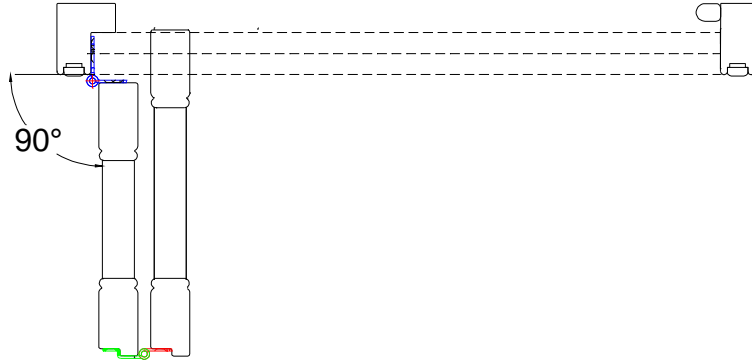
Vintage Hang Strip at Left (frame height matched with that of the right frame)



# Normandy® Shutters

## Notes:

1. Only available for 3-Sides + bottom light block or 3-Sides + 3" Deco Sill Frame (4-sides is not available); Panels can be folded and open at 90 degree;

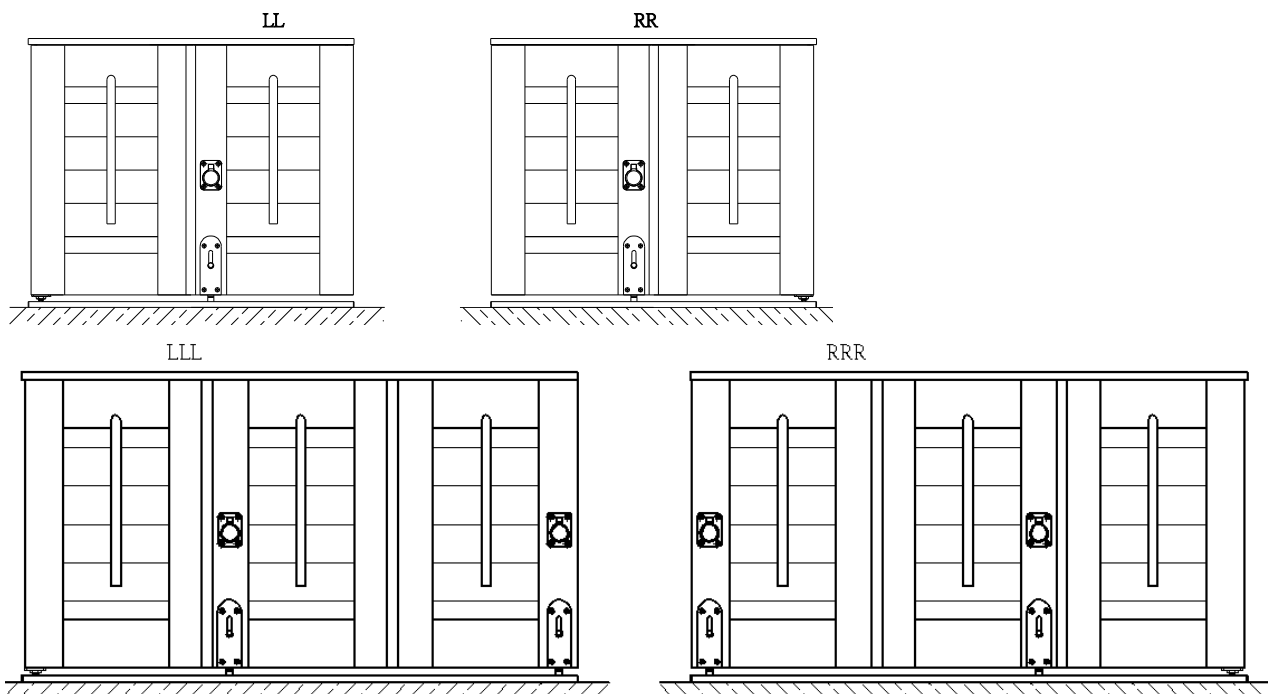


2. Frames available: Only Vintage L Frame

- 1) For top frame, the insert will be replaced by top fascia;
- 2) Top track will be pre-attached to the top frame;
- 3) Frame will be pre-drilled with screw holes same as regular shutters.

**Ring Pull:** The ring pull will be provided as an option; and for frame hinged bi-fold, the ring pull will be supplied as default; Customer need specify ring pull location on the order form. Ring pull location is measured from the floor to center of the ring pull in height direction. Ring pull color will match the hinge color.

Please refer to below drawing of ring pull position for all shutter types:

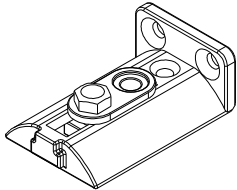


# *Normandy Shutters*

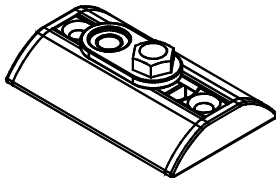


## **Bottom Pivot Bracket for 90 degree bifold:**

For 90° Bifold Track Shutter, there will be 2 types of Bottom Pivot Brackets available.

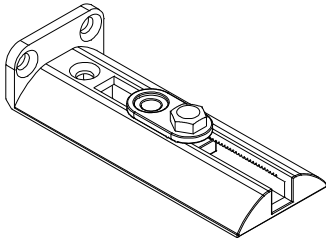


For Inside Mount, Bottom Pivot L Bracket will be supplied as default;



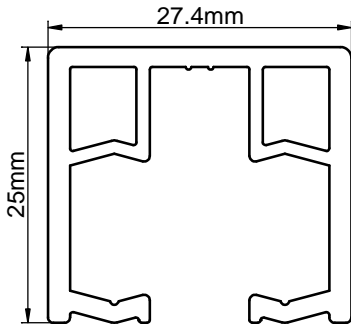
For Semi-Inside or Outside Mount, bottom pivot bracket will be supplied as default.

For 180° Bifold Track Shutter, 81mm Bottom Pivot L Bracket will be supplied as default.

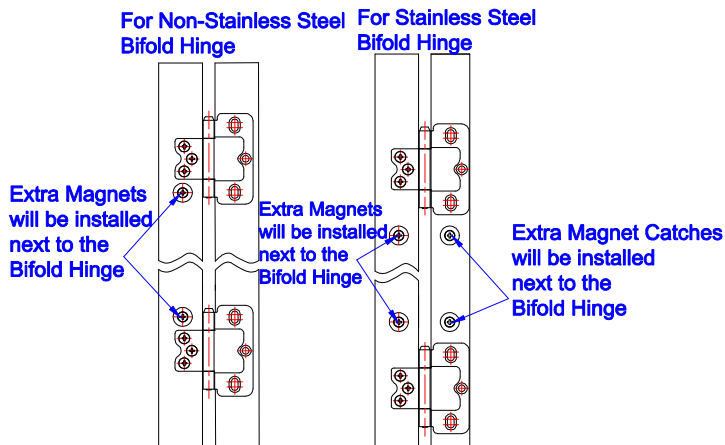


**Track Dimension:**

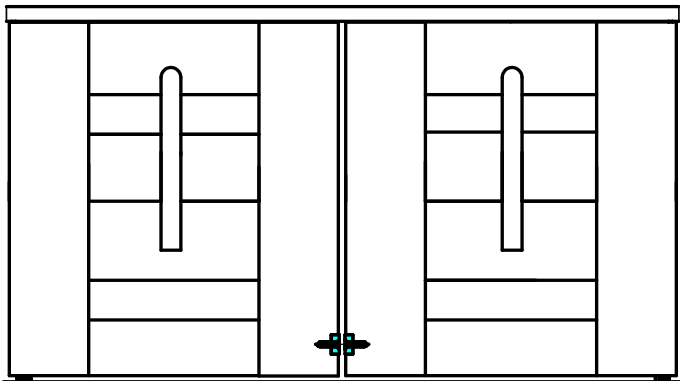
Top Track



**Extra Magnets will be supplied for Bifold hinges: (only for the most top and bottom hinges)**



**Side Magnet:** applied to the meeting stiles of LR panels



**Extra magnet and Side Magnet**

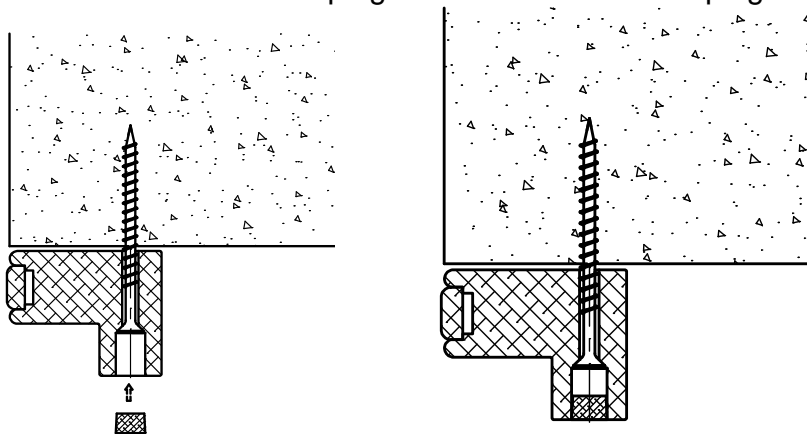


**90° Bi Fold Track Shutters Hardware Box**

| <b>Parts</b>   |
|--|
| Wrench   |
| Hinge Pin  |
| Support L Bracket (based on the length of header)    |
| 2 ½ " screws for support L bracket                   |
| ¾ " screws for support L bracket                     |
| Bottom Pivot Bracket                                 |
| 38.1mm screws for bottom pivot bracket               |
| 63.5mm screws for Frame with pre-drilled screw holes |

**Notes:**

1. for all bifold track shutter Outside Mount, the header will be pre-drilled with screw holes in the insert and screws will be supplied by default;
2. for all bifold track shutter Inside/Semi-Inside Mount, the header will be pre-drilled with holes for screws and wood plug and screws and wood plug will be supplied by default



**90 Degree Bifold Track & Floating Panels Hanger Location:**

**LL/RR/LLRR**



**LLL/RRR/LLLRRR**

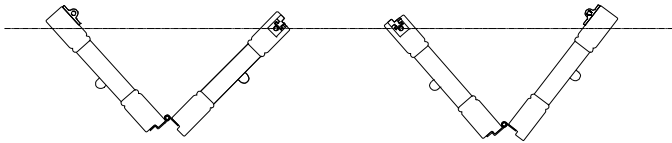


**LLLL/RRRR/LLLLRRRR**

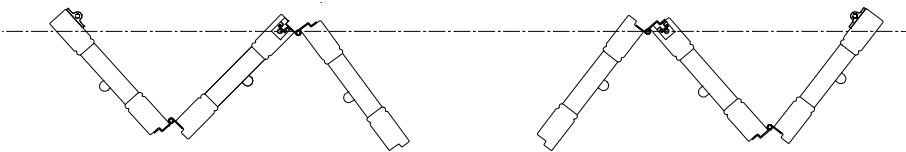


**180 Degree Bifold Track Panel Hanger Location:**

**LL/RR/LLRR**

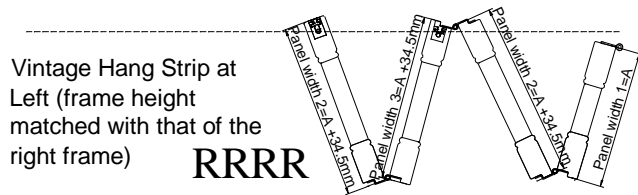
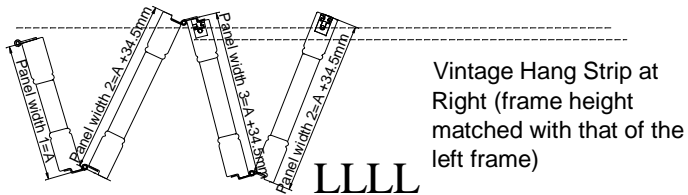
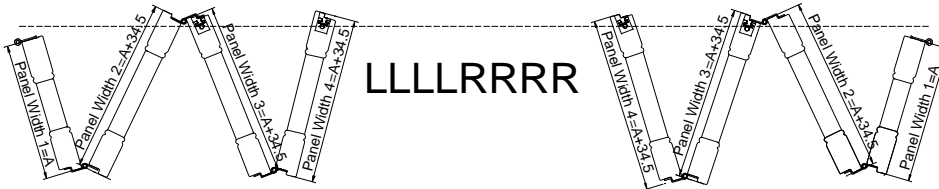
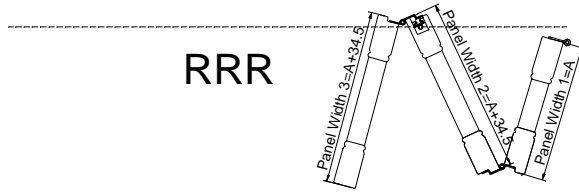
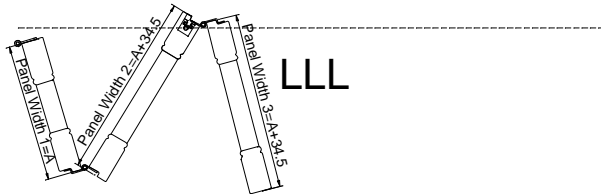
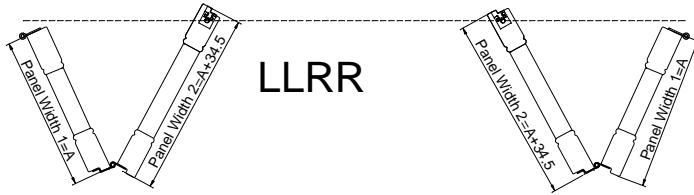
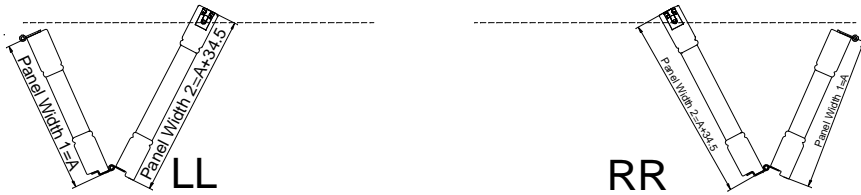


**LLL/RRR/LLLRRR**



# Normandy Shutters

## Frame Hinged Bifold Track Panel Hanger Location:

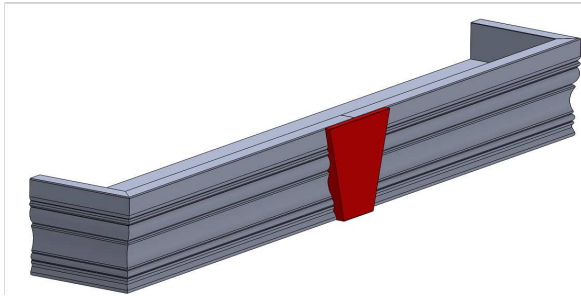


## Keystone for Fascia of the Track Shutter

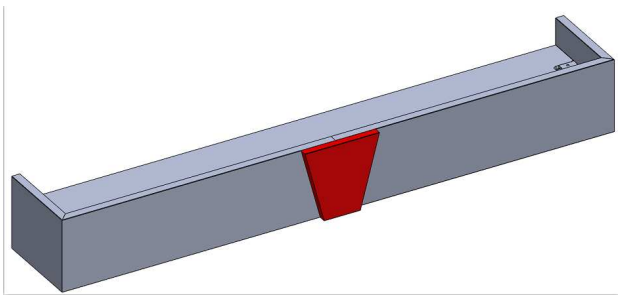
When fascia length exceeds the limitation and needs to split, keystone design fascia will be supplied without surcharge for track shutters.

For fascia length within the split limitation, keystone can also be supplied as an option with surcharge.

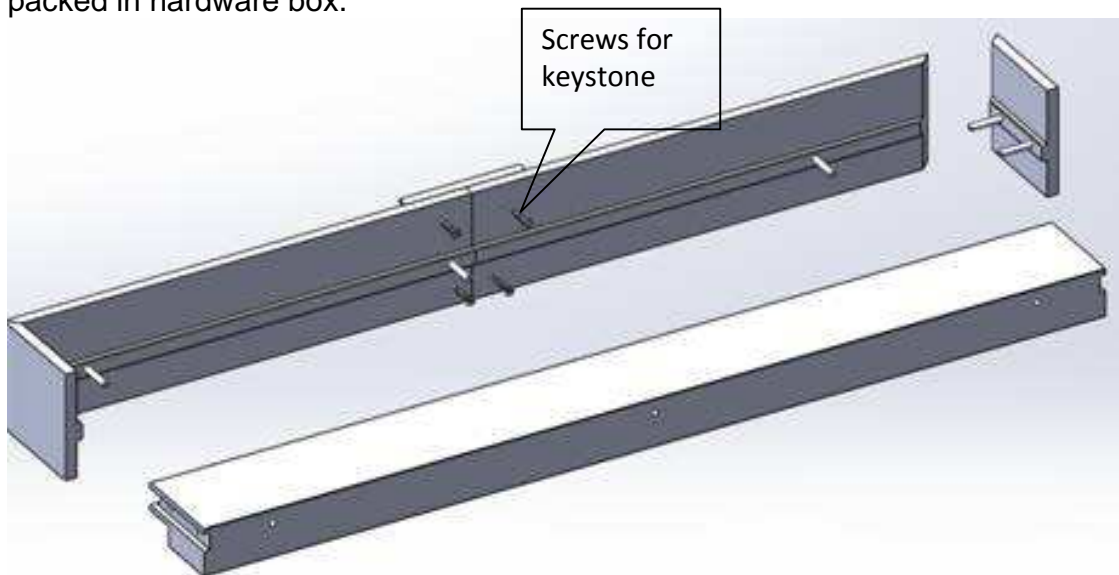
For Deco Fascia:



For Flat Fascia:



The keystone will be installed by screws. We will pre-drill the screw holes and the screws will be packed in hardware box.



# Track Shutters—Bypass



## Guidelines and Specs:

| <u>Description</u>        | <u>Minimum</u> | <u>Maximum</u> |             |                 |
|---------------------------|----------------|----------------|-------------|-----------------|
|                           |                | 1 7/8"         | 2 1/2" ; 3" | 3 1/2" ; 4 1/2" |
| Single-Panel Width (Wood) | 6"             | 30"            | 36"         | 42"             |
| Single-Panel Height       | 10"            | 132"           | 132"        | 132"            |

### Outside Mount

Max frame-to-frame width: window width + 3"

Max frame-to-frame height: window height + 4 1/2"

### Semi-Inside Mount

Max frame-to-frame width: window width - 1/8"

Max frame-to-frame height: window height + 1 3/8"

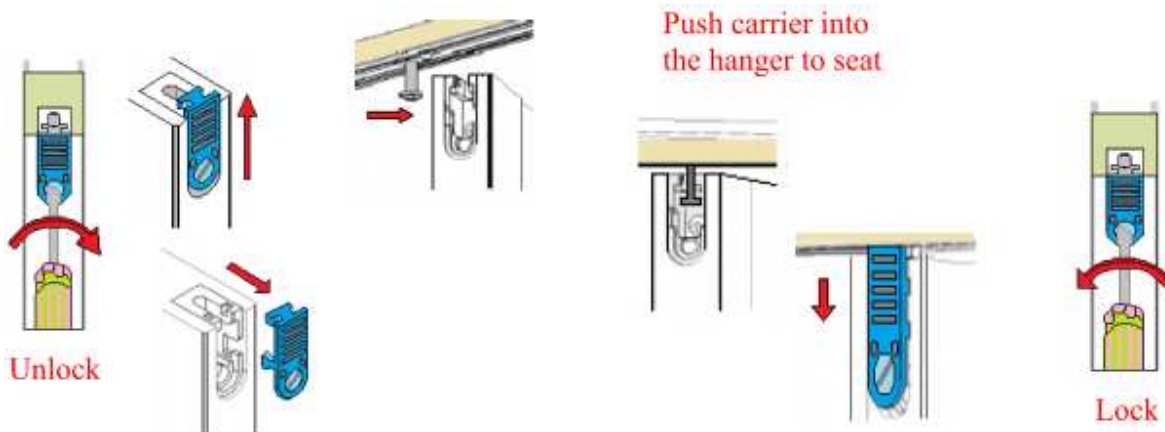
### Inside Mount

Max frame-to-frame width: window width - 1/8"

Max frame-to-frame height: window height - 1/8"

### **Carriers are in the Track / Hangers are in the Panel:**

Adjustments to panel alignment are made by turning the Carrier Bolt with the wrench included in the Hardware Box

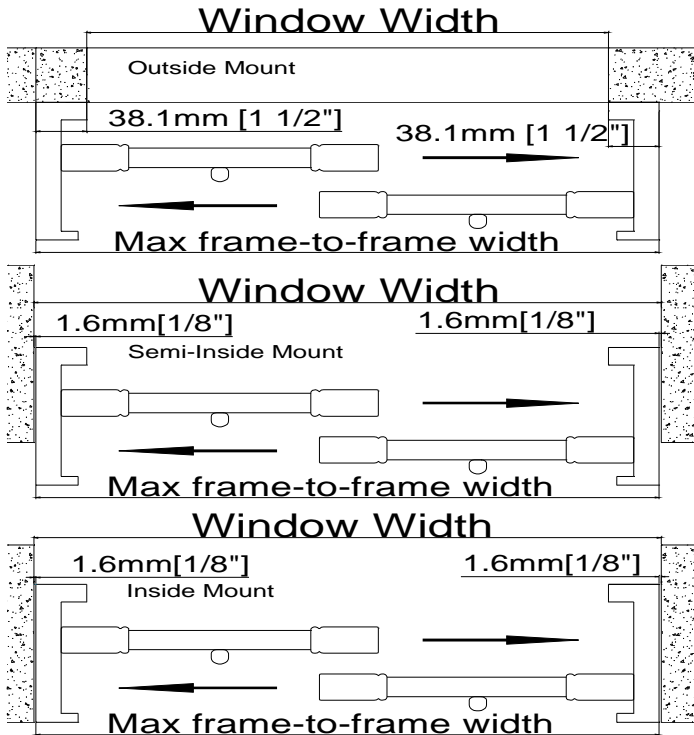




# Track Shutters—Bypass

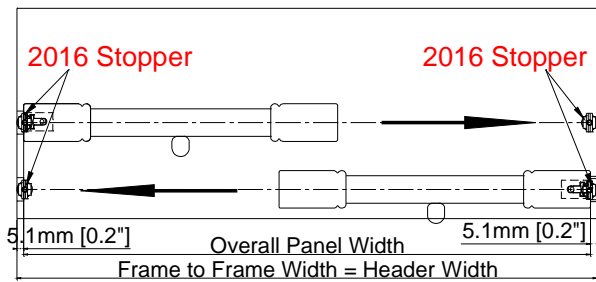


## Top View

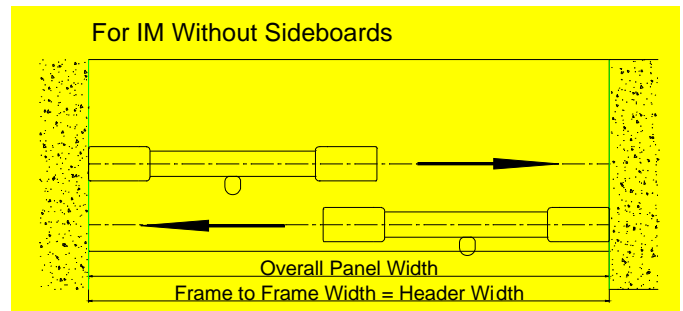


## Size Definition

For Semi-Inside/OM without side boards



For IM without side boards



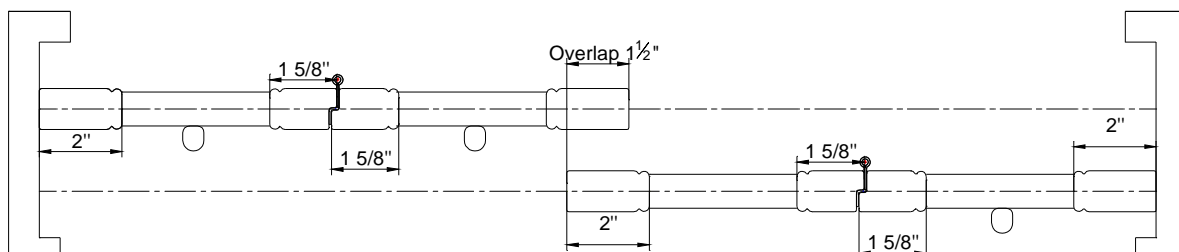
Note: For Semi-Inside/OM bypass without side boards, 2016 Stopper will be supplied.

# Track Shutters—Bypass

*Normandy Shutters*

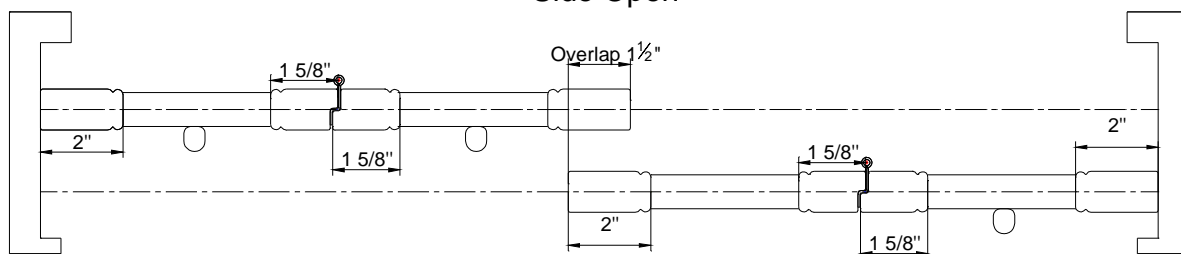
## Top View

Combi - joined Panels (optional)

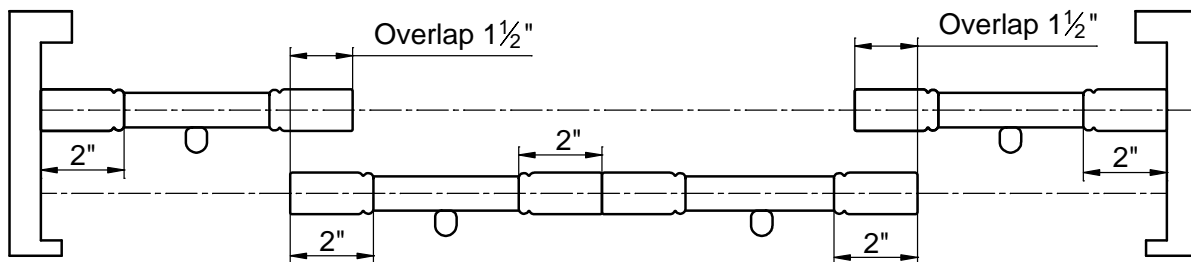


For shutters with 4 or more panels, please select "side open" or "center open"

### Side Open



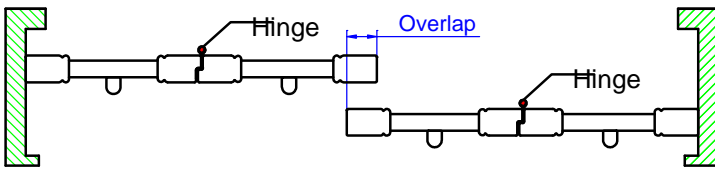
### Center Open



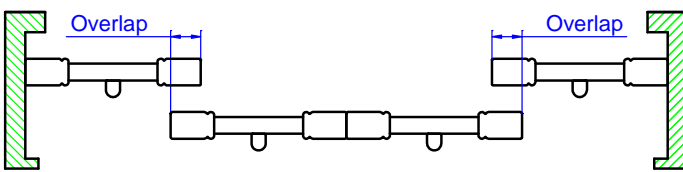
# Track Shutters—Bypass

*Normandy Shutters*

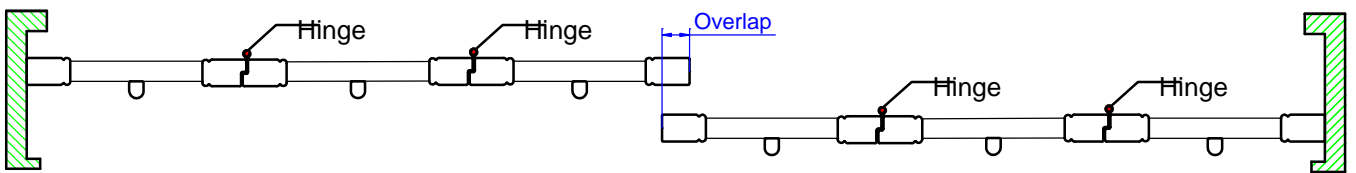
## 4 panels side open w/Rabbit stile



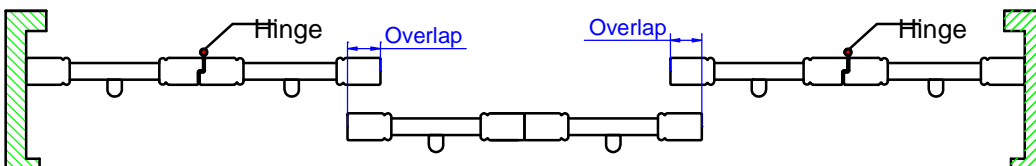
## 4 panels center open w/Rabbit stile



## 6 panels side open w/Rabbit stile



## 6 panels center open w/Rabbit stile



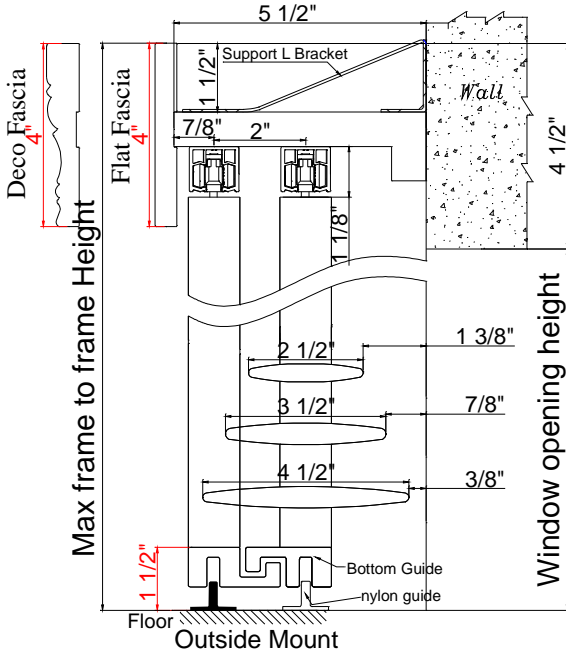
**Stile:** Only 2", 2 1/4" butt and rabbit stiles are available,  
1 5/8" rabbit stile only used for combi-joined panels.  
Center stile is not available.

# Track Shutters—Bypass

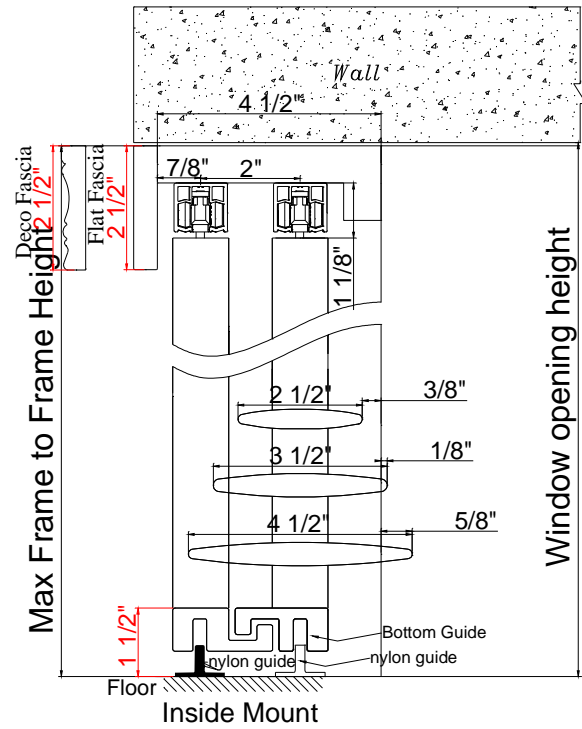
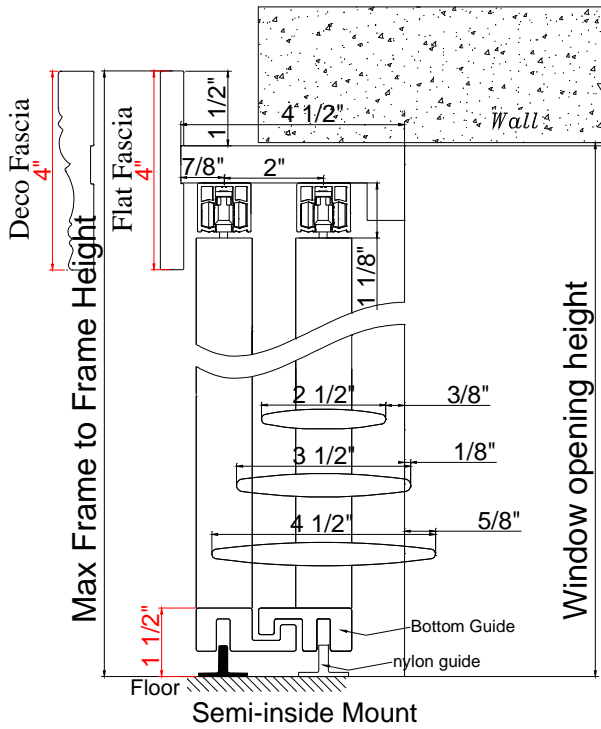
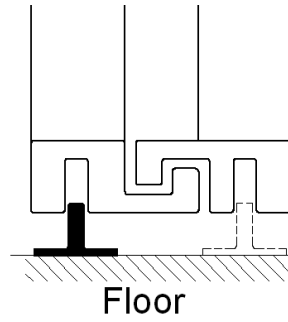
*Normandy Shutters*

## Mounting Options (Closed Bypass)

### Side View



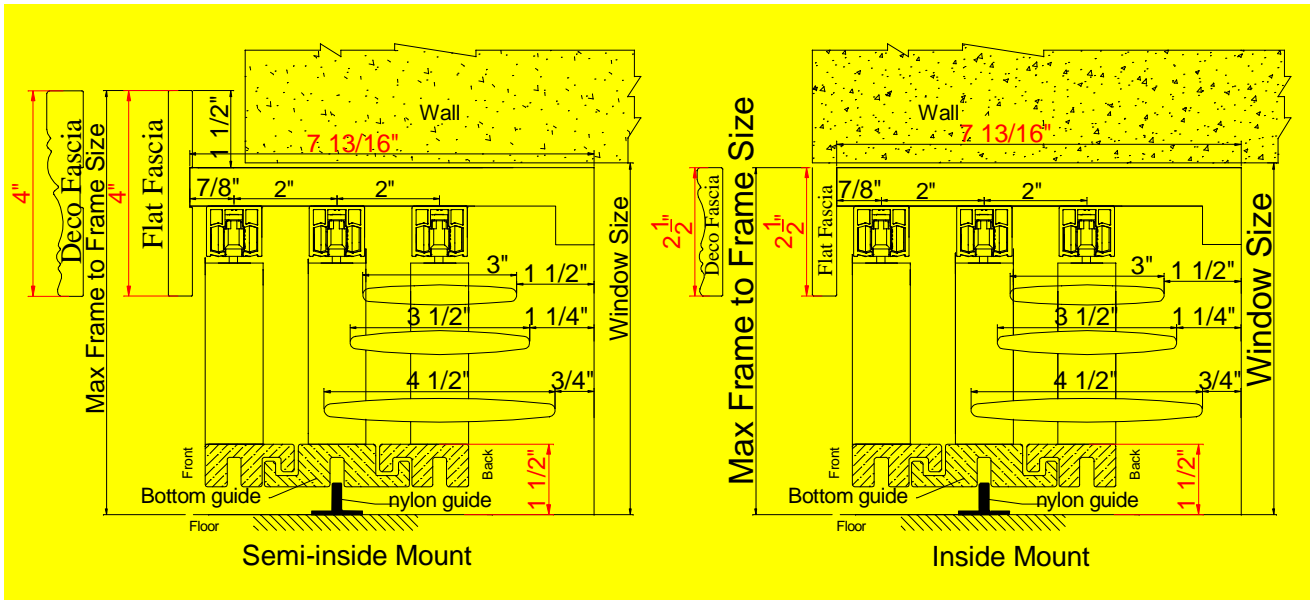
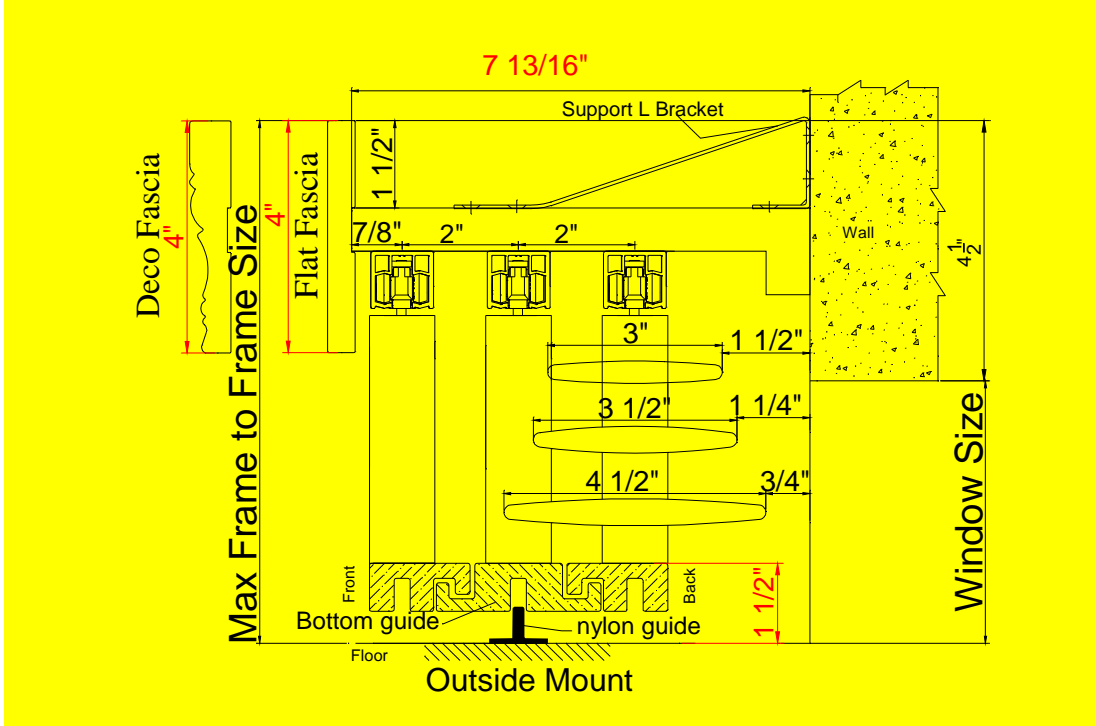
### Bottom Guide



# Track Shutters—Bypass

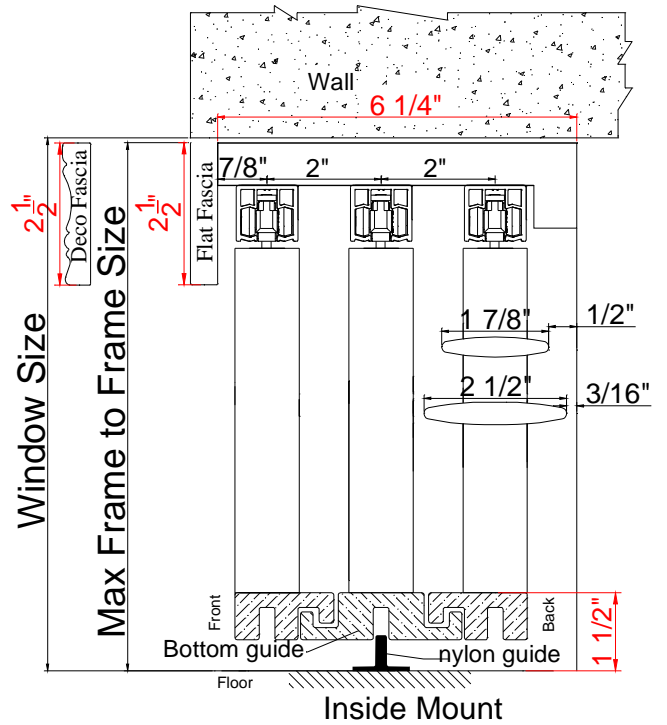
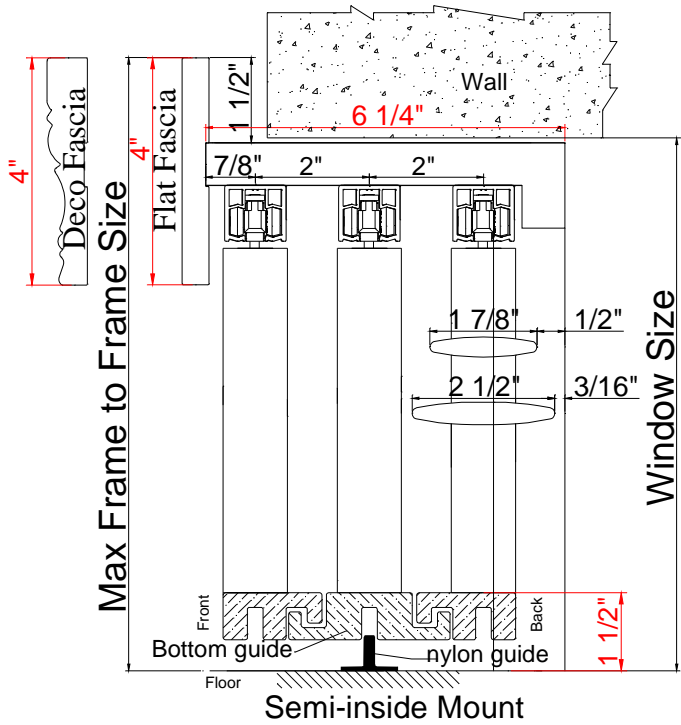
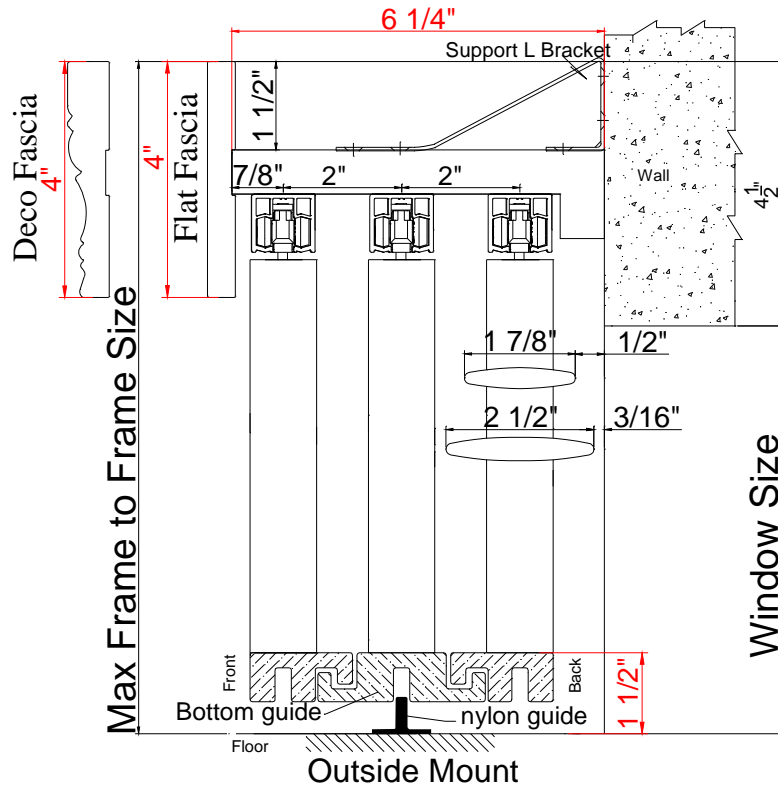
*Normandy Shutters*

## Mounting Options (Closed Bypass with 3 Tracks):



# Track Shutters—Bypass

*Normandy Shutters*



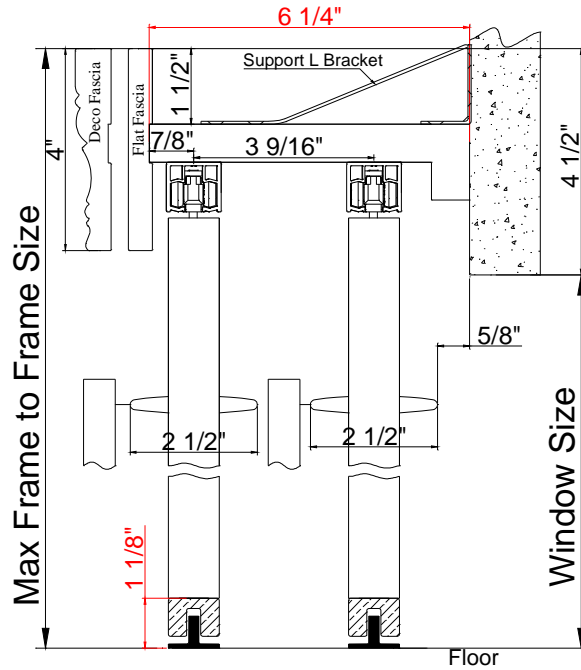
# Track Shutters—Bypass

*Normandy Shutters*

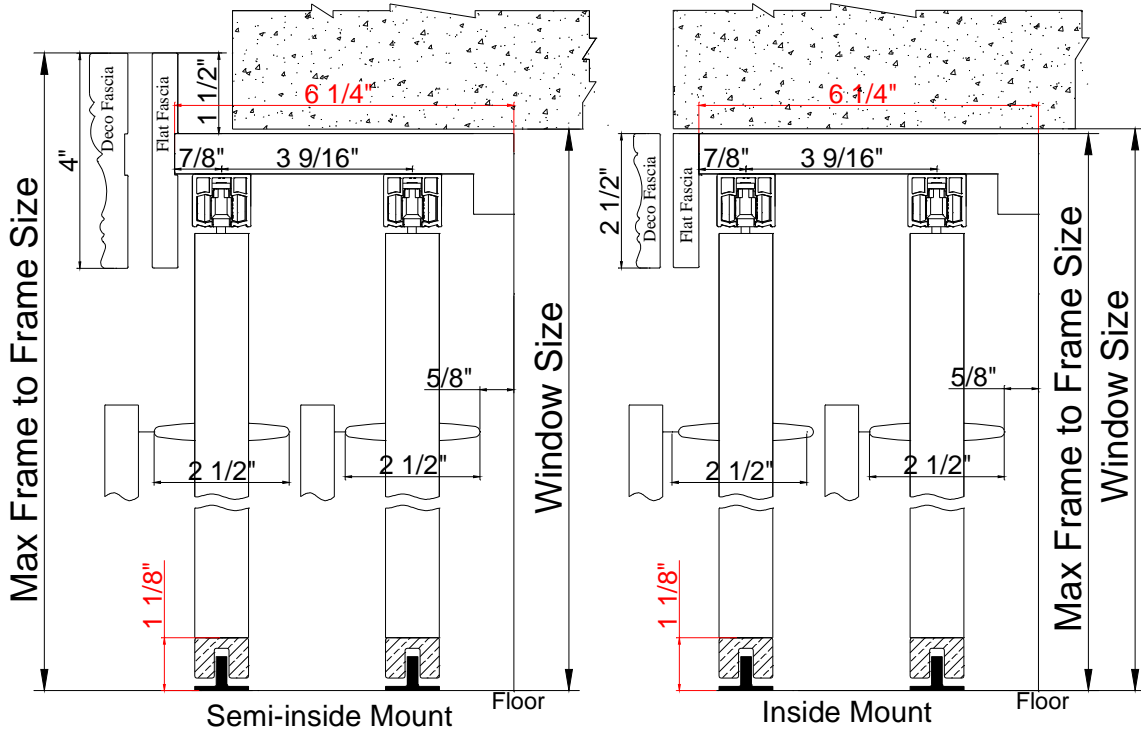
## Mounting Options (Opened Bypass)

Only available in 2 1/2", 3" and 3 1/2" louver sizes

### 2 1/2" Louver



Outside Mount



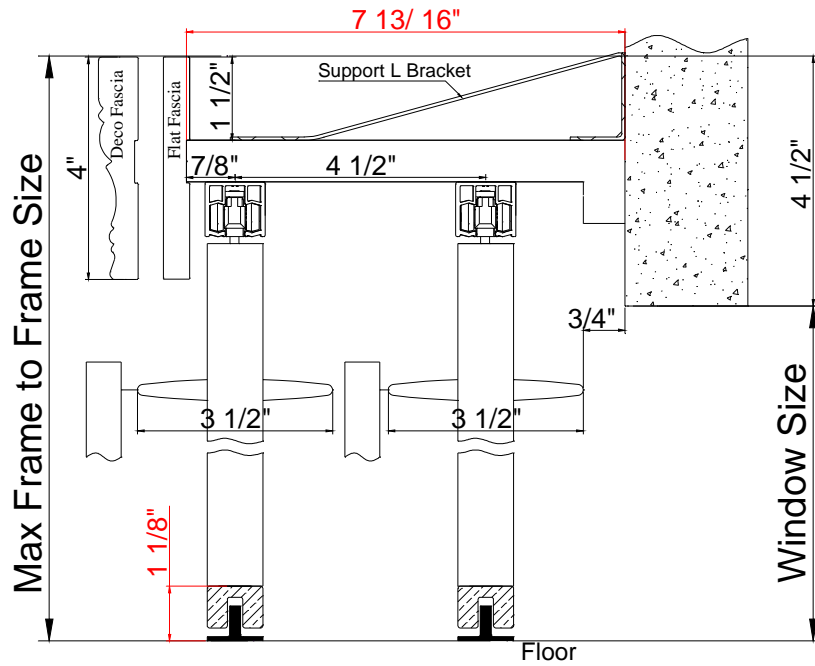
Semi-inside Mount

Inside Mount

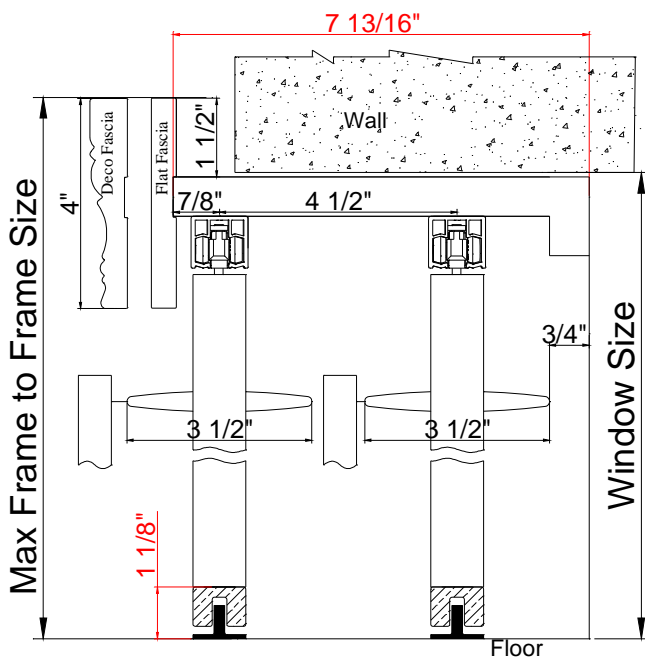
# Track Shutters—Bypass

*Normandy Shutters*

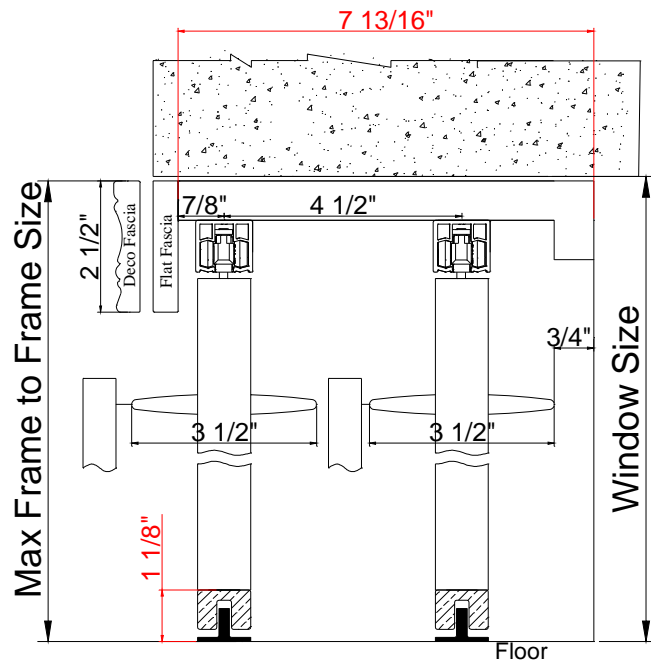
**3" / 3 1/2" Louver**



Outside Mount



Semi-inside Mount



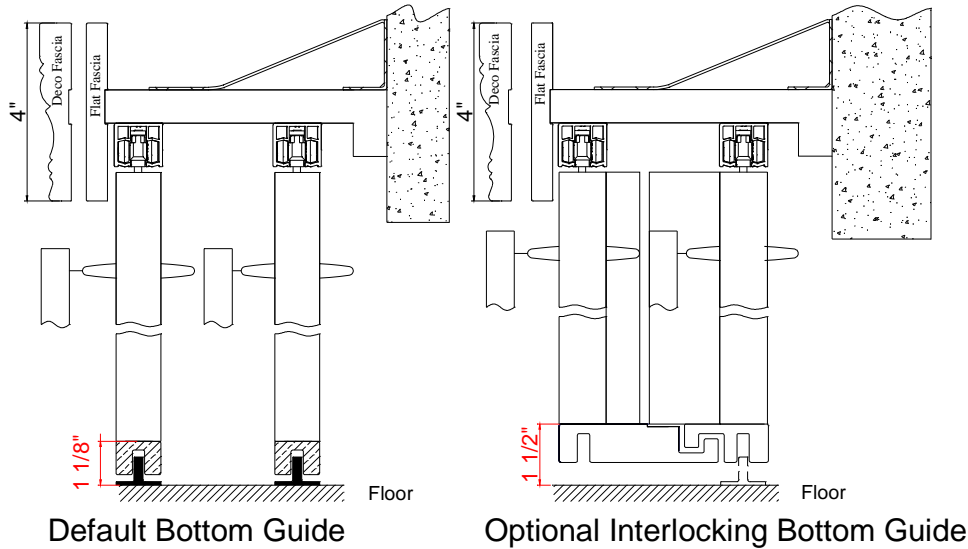
Inside Mount



# Track Shutters—Bypass

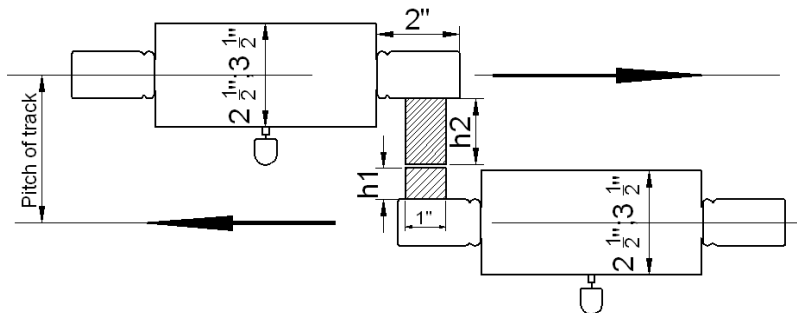
*Normandy Shutters*

Open By Pass: has 2 kinds of bottom guide

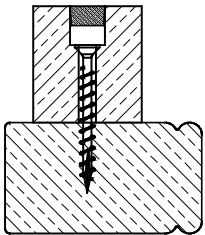


## Opened Bypass

### Top View



Note: The light block for open bypass will be changed to use screws with wood plugs instead of current dowels.



## Separation of track

| Louver           | U shape bottom guide |                | Interlocking bottom guide |                |
|------------------|----------------------|----------------|---------------------------|----------------|
|                  | Regular Tilt Rod     | Invisible tilt | Regular Tilt Rod          | Invisible tilt |
| 2.5"             | 3 9/16"              | 2 3/4"         | 3 9/16"                   | 3 9/16"        |
| <b>3" / 3.5"</b> | 4 1/2"               | 3 5/8"         | 4 1/2"                    | 4 1/2"         |

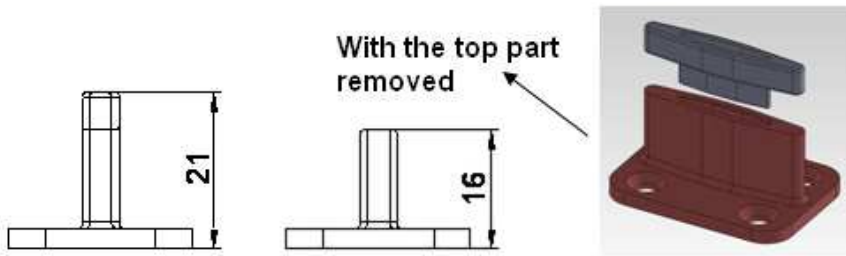
# Track Shutters—Bypass



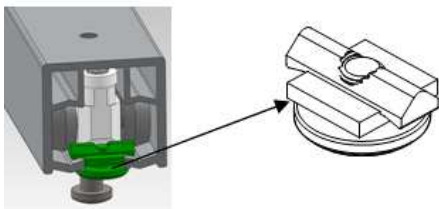
Light block thickness for panel

| Louver    |    | U shape bottom guide |                | Interlocking bottom guide |                |
|-----------|----|----------------------|----------------|---------------------------|----------------|
|           |    | Regular Tilt Rod     | Invisible tilt | Regular Tilt Rod          | Invisible tilt |
| 2.5"      | h1 | 3/4"                 | 3/4"           | 3/4"                      | 3/4"           |
|           | h2 | 1 9/16"              | 3/4"           | 1 9/16"                   | 1 9/16"        |
| 3" / 3.5" | h1 | 1 3/16"              | 1 3/16"        | 1 3/16"                   | 1 3/16"        |
|           | h2 | 1 15/16"             | 1 3/16"        | 1 15/16"                  | 1 15/16"       |

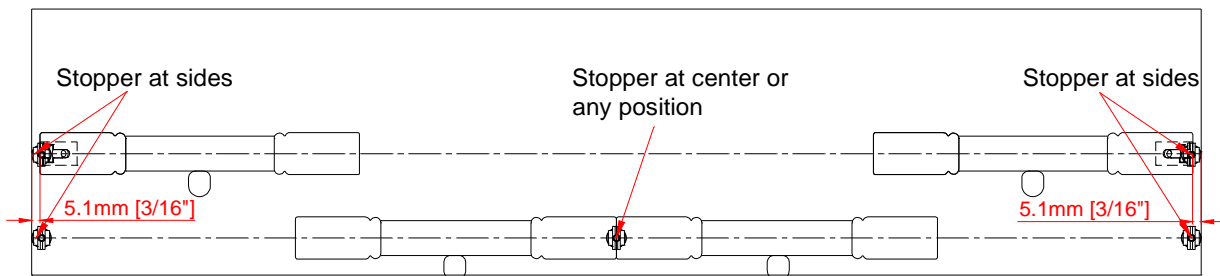
**Nylon Guide:** The nylon guide is composed by 2 parts and will supplied as a whole set by default (bottom part 16mm and top part 5mm), please remove the top part if necessary.



## The 2016 Stopper



For outside mount/semi-inside mount bypass without side boards, the 2016 Stopper will be supplied by default. The gap between the fascia return / end of top track and the panel is 5mm each side. The 2016 stopper can also be used in the center or any position of the top track as an option. Please see drawing below to show the gap.



# Track Shutters—Bypass



## Track Shutters Framing Materials

| Framing  | Size  |   |                                   | Pc(s)                              |
|--|---|---|-----------------------------------|------------------------------------|
| <b>L Shape Header</b>                                | <b>Header (Closed Bypass)</b>   | <b>Header (Opened Bypass)</b>                                       | <b>Supporting Strip</b>           |                                    |
| <b>(2 in 1)</b>                                      | $\frac{3}{4}$ " x $5\frac{1}{2}$ "*<br>(Default for Outside Mount;<br>Optional for Semi-Inside and Inside<br>Mount) | $\frac{3}{4}$ " x $6\frac{1}{4}$ "*<br>( $2\frac{1}{2}$ " Louver)   | $\frac{3}{4}$ " x $\frac{3}{4}$ " |                                    |
| Header with<br>Supporting Strip                      | $\frac{3}{4}$ " x $4\frac{1}{2}$ "*<br>(Default for Semi-Inside and Inside<br>Mount;<br>Optional for Outside Mount) | $\frac{3}{4}$ " x $7\frac{13}{16}$ "*<br>( $3\frac{1}{2}$ " Louver) |                                   |                                    |
|  | Custom * $\leq$ 8"  | Custom * $\leq$ 8"  |                                   |                                    |
| <b>U Shape Side<br/>Frame</b>                        | <b>Side Frame (Closed Bypass)</b>   | <b>Side Frame (Opened Bypass)</b>                                   | <b>Supporting<br/>Strip</b>       | <b>Side<br/>Fascia</b>             |
| <b>(3 in 1)</b>                                      | $\frac{3}{4}$ " x $5\frac{7}{8}$ "*<br>(Default for Outside Mount;<br>Optional for Semi-Inside and Inside<br>Mount) | $\frac{3}{4}$ " x $6\frac{5}{8}$ "*<br>( $2\frac{1}{2}$ " Louver)   | $\frac{3}{4}$ " x $\frac{3}{4}$ " | $\frac{3}{8}$ " x $1\frac{1}{4}$ " |
| Side Frame with<br>Supporting Strip<br>& Side Fascia | $\frac{3}{4}$ " x $4\frac{7}{8}$ "*<br>(Default for Semi-Inside and Inside<br>Mount; Optional for Outside Mount)    | $\frac{3}{4}$ " x $8\frac{1}{4}$ "*<br>( $3\frac{1}{2}$ " Louver)   |                                   |                                    |
|  | Custom * $\leq$ 8"  | Custom * $\leq$ 8"  |                                   |                                    |
| Top Fascia<br>(Plain/Deco)                           | 4" (Semi-inside and Outside Mount)  |   |                                   | 1 pc                               |
|  | $\frac{1}{2}$ " x $2\frac{1}{2}$ " (Inside Mount)   |   |                                   |                                    |
| Top Fascia<br>Return                                 | 4" (Semi-inside and Outside Mount)  |   |                                   | 2 pcs                              |
|  | N/A (Inside Mount)  |   |                                   |                                    |

**Note:**

- When the header size is  $4\frac{1}{2}$ "\*,  $5\frac{1}{2}$ "\*,  $6\frac{1}{4}$ "\* or  $7\frac{13}{16}$ "\*, the L Shape header and the U Shape Side Frame will be sent integrally. That is:
  1. The header and the supporting strip will be sent integrally as L Shape Header;
  2. The side frame, supporting strip and the side fascia will be sent integrally as U Shape Side Frame.
- For any custom header sizes other than  $4\frac{1}{2}$ "\*,  $5\frac{1}{2}$ "\*,  $6\frac{1}{4}$ "\* or  $7\frac{13}{16}$ "\*, the L Shape Header and the U Shape Side Frame will be sent separately. That is:
  1. The header and the supporting strip will be sent separately for L Shape Header;
  2. The side frame, supporting strip and the side fascia will be sent separately for U Shape Side Frame.

# Track Shutters—Bypass



## Hardware Box

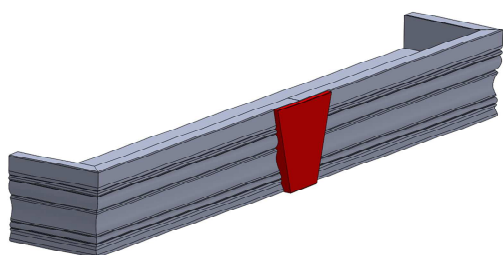
| Hardware Box                                      |
|---|
| <b>Part</b>                                       |
| Wrench  |
| Nylon Guide                                       |
| $\frac{3}{4}$ " screws for Nylon Guide            |
| Support L Bracket (based on the length of header) |
| 2 $\frac{1}{2}$ " screws for support L bracket    |
| $\frac{3}{4}$ " screws for support L bracket      |

### Keystone for Fascia of the Track Shutter

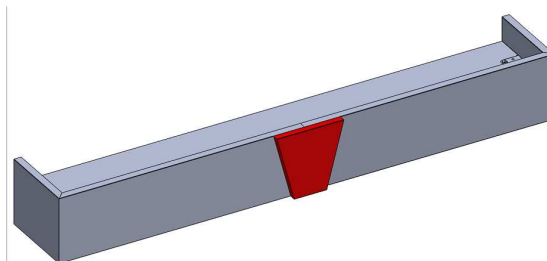
When fascia length exceeds the limitation and needs to split, keystone design fascia will be supplied without surcharge for track shutters.

For fascia length within the split limitation, keystone can also be supplied as an option with surcharge.

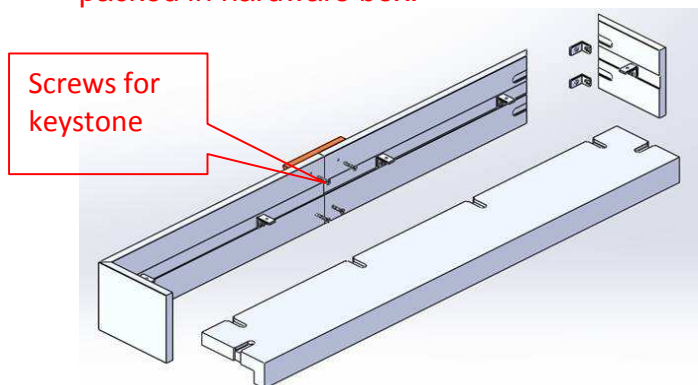
For Deco Fascia:



For Plain Fascia:



The keystone will be installed by screws. We will pre-drill the screw holes and the screws will be packed in hardware box.



# Track Shutters—Bypass

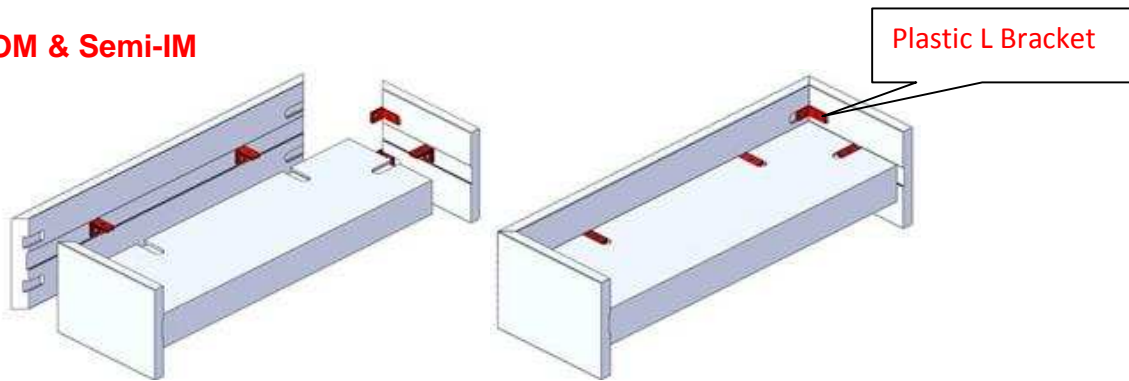


## Plastic L Bracket to Connect the Header, Fascia & Fascia Returns

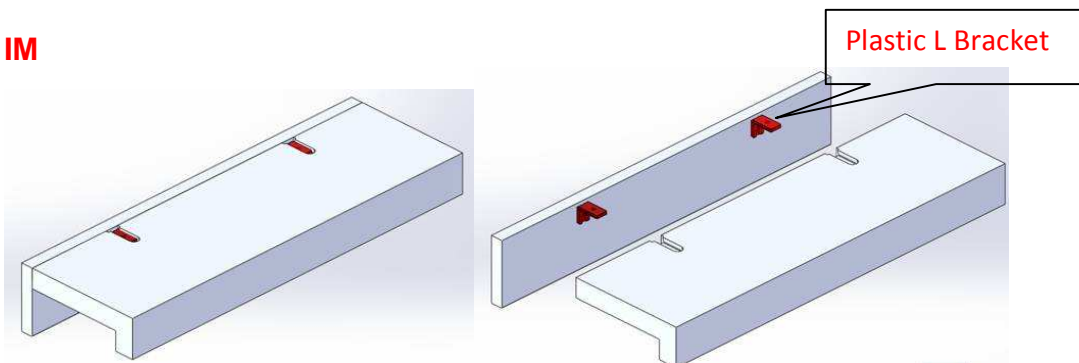


L Bracket will be used to connect the header, fascia and fascia returns for Bypass shutter. This applies for Inside Mount, Semi-Inside Mount & Outside Mount.

### OM & Semi-IM



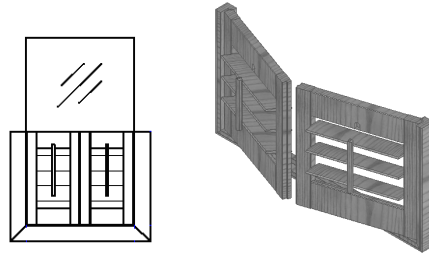
### IM



# Special Options

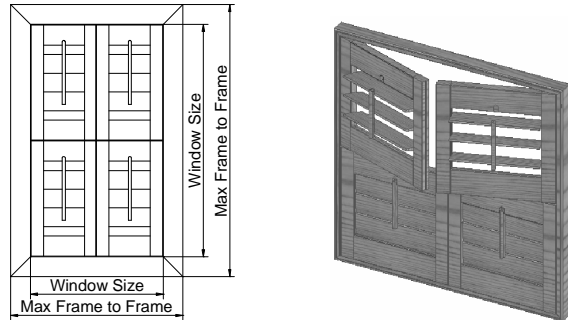
## Café Shutters\*

- The top of the panel requires a special finish. Please indicate “café shutter” when placing orders.
- The shutter does not come with recessed magnet on top.
- When the height of the framing material (including t-posts) exceeds the panel height, by more than 5", a surcharge will apply.

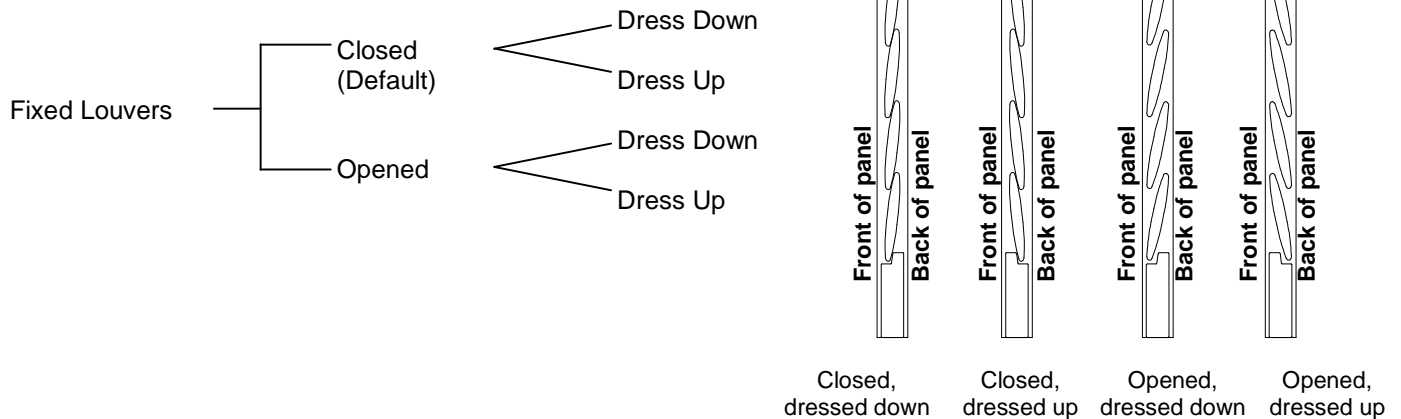


## Double-Hung Shutters\*

- For total number of panels, please include panels in both rows.
- For panel configuration, please provide panel fold for one row.
- The default location for the division point is the center unless specified otherwise.
- Horizontal T Post\* can be added for increased structural integrity.
- Warranty needs to be waived for the horizontal T post length exceeds 48".



## Fixed Louvers



\*Some surcharges apply

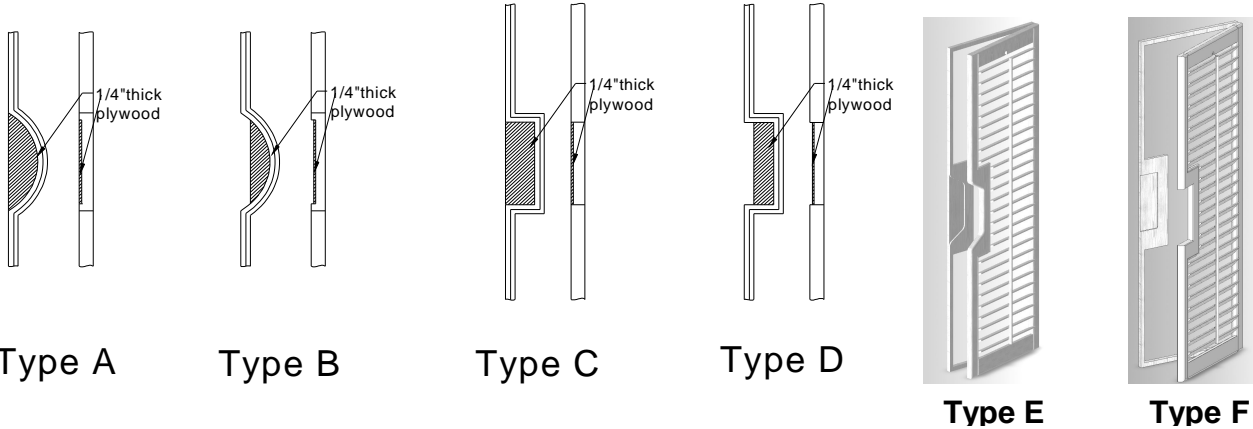
## Special Options (continued)

### French Door Cut-out Collection \*

- Flush and offset cutout options are available in both curved and square French door cutout.
  - ◊ Offset cutout is good option for French Door with molding around the glass.
- All French door cutouts are only available in L frame except Type E and F. The batten is placed behind the Type E/F panel to block light.

| Louver size     | Batten Width | Batten thickness |
|-----------------|--------------|------------------|
| 1 7/8" & 2 1/2" | 3/4"         | 1"               |
| 3" & 3 1/2"     | 3/4"         | 1 3/8"           |
| 4 1/2"          | 3/4"         | 1 7/8"           |

- For measurement details please refer to Form section.
- French Door cutouts with Arch/Quarter Arch at the top are also available except Type E and F



\*Some surcharges apply

## Special Options (continued)

### Custom Colors \*

Available in Normandy® shutters.

| Option<br>(Color Code)        | Sample Size   | <u>Confirmation Process</u>   |
|-------------------------------|---|---|
| <b>Custom Solid<br/>(C01)</b> | At least 4" x 4" on a clean, flat surface such as wood or cardboard (please do not send anything critical as the sample will not be returned) | All orders require customer's confirmation via <b>digital photo OR actual swatch</b> in the mail before production. An additional shipping and Custom handling fee applies. |
| <b>Custom Stain<br/>(C02)</b> |   |   |

Note:

- 1) All custom colors will be finished with the standard gloss used on all Norman products.
- 2) Please be aware that we will only be able to match the tone and not the texture or finish of the sample you submit.
- 3) Only one color revision will be allowed during the color confirmation process.
- 4) Customer may shorten the production lead-time by opting to waive the color confirmation process or by approving a digital photo. Norman will not be responsible for any color variation on waived confirmations or approved digital photos.

Disclaimer:

Sherwin Williams ColorSnap (MWCS),  
 Sherwin Williams Designer Expressions (MWDE),  
 Benjamin Moore Classic (MBMC) (M2460009TL) &  
 Benjamin Moore Preview (MBMP) (M2440564TL)

**Benjamin Moore, Off White Collection M2451888TL**

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\*Some surcharges apply



## Shutters to be installed in Angled or Horizontal Skylight Window Openings

If shutters are going to be installed in angled or horizontal skylight window openings, please specify on the order form.

|                                   |  |
|-----------------------------------|--|
| <b>Available Material</b>         | Normandy Shutters (Not available for Motorized Shutters) |
| <b>Available Frame Type</b>       | Frame with light block thickness not less than 3/4"      |
| <b>Max Panel Size</b>             | 26" W x 78"H   |
| <b>Tilt Rod</b>                   | Invisible Tilt   |
| <b>Panel Configuration</b>        | single panel or single panels with T-Posts               |
| <b>Hardware for unhinged side</b> | Panel Lock on top and bottom + 2 Button Catches          |

### **Auto Tilt™ (Patented) \***

- Available in Bifold or Multi-fold panel configuration
- Available with Invisible Tilt Only
- Available in 2" Butt, Astragal and Rabbet Stile
- Minimum Louver Qty (Please see below for details)
- Ring pulls included. For ring pull location, please refer to the ring pull section.

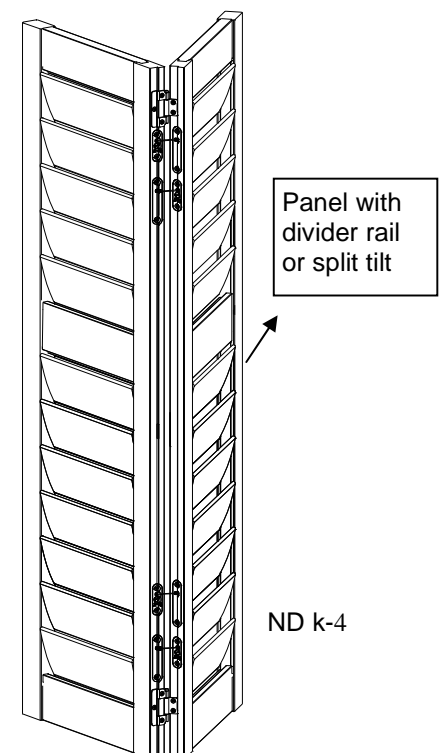
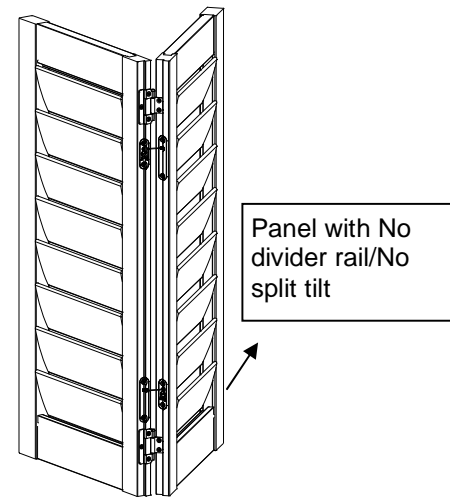
When there is only one louver section (no divider rail/no split tilt)

| Louver Size | Rail Size  | Minimum Louver qty |
|-------------|------------|--------------------|
| 2.5"        | <4.25"     | 6                  |
|             | >=4.25"    | 4                  |
| 3"          | <3.75"     | 5                  |
|             | >=3.75"    | 4                  |
| 3.5"        | 2.75"~6.5" | 4                  |
| 4.5"        | 2.75"~6.5" | 3                  |

When there is more than one louver sections (with divider rail/ split tilt)

| Louver Size | Rail Size  | Minimum Louver qty |
|-------------|------------|--------------------|
| 2.5"        | <4.25"     | 5                  |
|             | >=4.25"    | 4                  |
| 3"          | 2.75" – 6" | 4                  |
| 3.5"        | 2.75"~6.5" | 3                  |
| 4.5"        | 2.75"~6.5" | 3                  |

\*Some surcharges apply



ND k-4

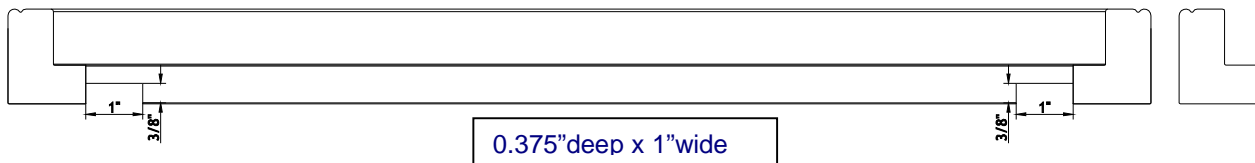
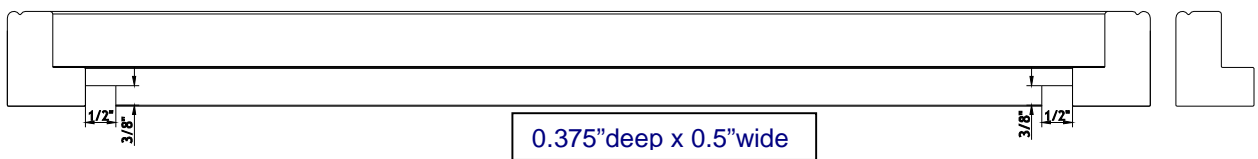
**Standard frame cutouts:** R cutout, S cutout, L cutout, C cutout. The sizes can vary.

- a. **R cutout**---Ridge cut out: 0.375"deep(0.25" deep for Deco Frames and L Frame with 1/4" Light block) x 0.5"wide and 0.375"deep (0.25" deep for Deco Frames and L Frame with 1/4" Light block) x 1.0" wide (see below).

The cutout can be on the top and the bottom of the frame

Available Frame Types:

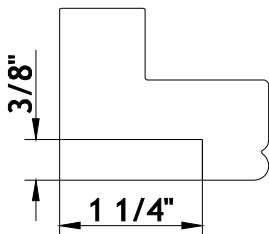
- 1) All types of the L/Deco/Z frames;
- 2) All standard sill plates for Deco/Z Frame.



- b. **S cutout**---Sill cut out: 0.375"deep x 1.25"wide. The cutout is always on bottom of bottom frame.

Available frame type:

- 1) All L-frames except for L frame with 1/4" Light block
- 2) All Z Frame and its standard sill plates.



- c. **L cutout**---Lock cutout. L cutout will be on the left or right frame or T Posts.

There will be one or two cutouts on the T-posts or frames depending on the height of the window;

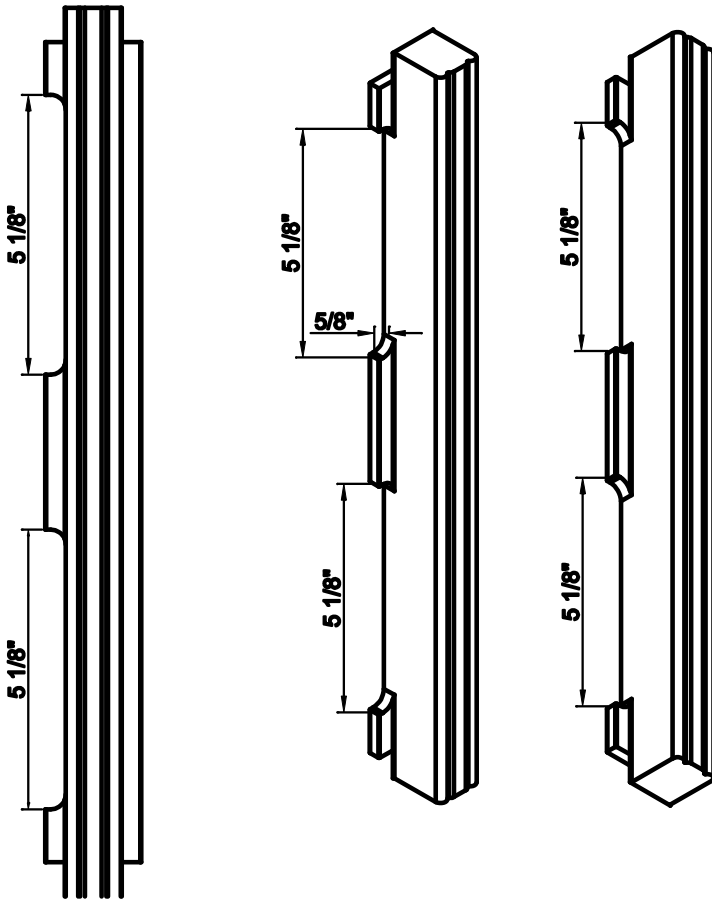
- 1) For window around 42-48" height, 1 cutout is available;
- 2) For window around 60" or above, 2 cutouts are available.

# *Normandy Shutters*

Measuring for L cut out: The default size is 5.125". Measurements are from the bottom of frame if size type is max frame to frame size and from bottom of window if it is window size to the center of the cut out (2.5625" down and 2.5625" up).

Available frame type and T Post:

- 1) All types of L/Deco/Z frames except Tilt Out Z;
- 2) All standard sill plates for Deco/Z Frame;
- 3) All T Posts except for T Post with 3/8" wide light block.



d. C cutout---Crank cut outs (C1 cutout, C2 cutout, C3 cutout): Always on bottom of bottom frame.

Available frame type for C1&C2:

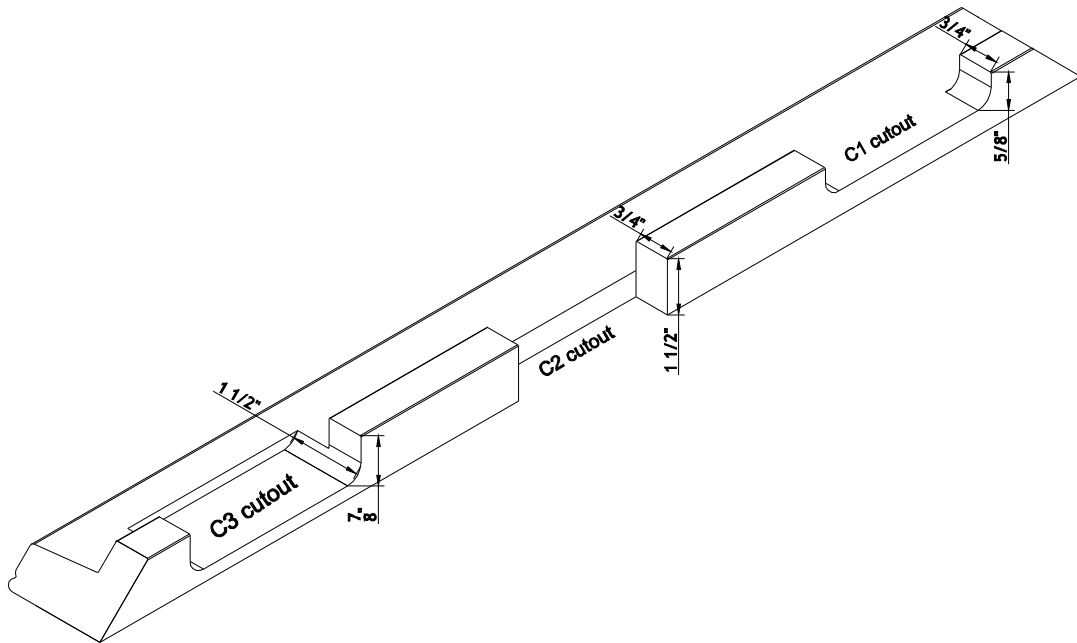
- 1) All types of L/Z Frames except Tilt Out Z
- 2) All standard sill plates for Z Frame

Available frame type for C3:

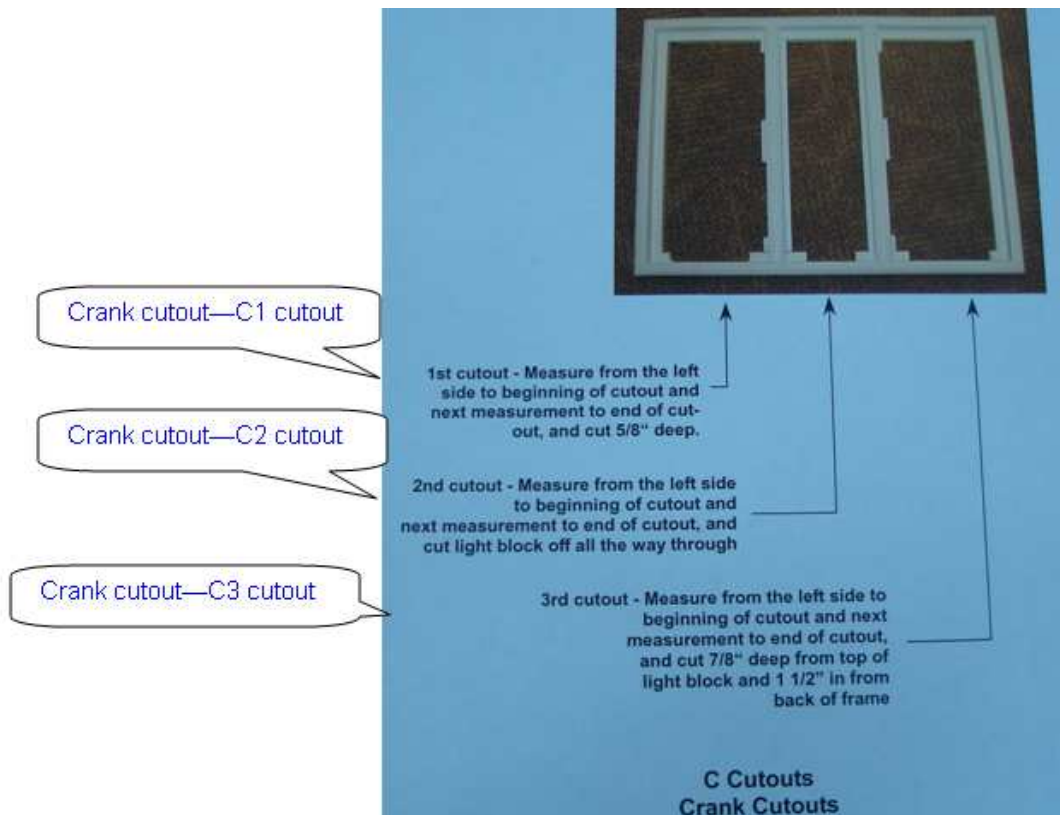
- 1) All types Z-frames except Tilt Out Z
- 2) All standard sill plates for Z Frame
- 3) All type of L Frame except for all Vintage L Frames with different height or Beaded L Frame with 1/4" light block.

\*Some surcharges apply

# Normandy® Shutters



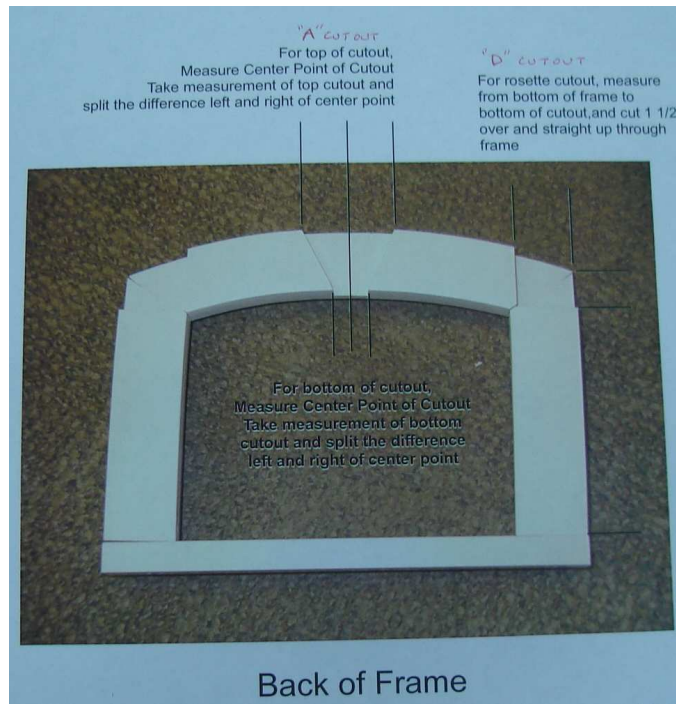
For C1 & C2 cutout, the cutout depth of light block is 1/4" for L Frame with 1/4" Light block.



\*Some surcharges apply

# Normandy® Shutters

- e. A & D cutouts: This should be for the outside mount frames, deco frames, L-frames. Normally a build out or an extension is used to build the frame out so the frame can set on top of the “keystone”:



\*Some surcharges apply

# Specialties

## Specialty Shutters\*

Specialty shutters are made of premium solid wood, finished to match the beauty of all Norman shutters. Templates are required if it is an imperfect specialty. Delivery time is 8 weeks from the order confirmation date for all specialty shutters. Please refer to Specialties and Template Requirement sections for details.

### Regarding frame with an insert or solid frame issue:

1). For Half Round Sunburst, Quarter Round Sunburst, Eyebrow Sunburst & Elongated Eyebrow Sunburst:

- All deco frames will be made as solid frames;
- All Vintage L frames & Vintage hang strip: all top frames (curve shape frame) will be made as a solid frame but the bottom & both sided frames (straight frames) will be made as regular frames with inserts

2). For Triangle, Hexagon, Octagon, Peak & Angle top: all frames will be made as regular frames with inserts.

3). For Circle, Oval: all frames will be made as solid frames (not with an insert).

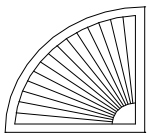
4). For Sunburst on top with Divider strip: the top frame (curve shape frame) will be made as a solid frame but the bottom & both side frames (straight frames) will be made as regular frames with inserts.

5). For Louver Arch with Eyebrow curve shape:

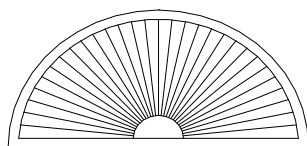
- All deco frames excluding 2.5" Mission deco frame: all frames will be made as solid frames (not with an insert).
- All Vintage L frames & Vintage hang strip & 2.5" Mission deco frame: the top frame (curve shape frame) will be made as a solid frame but the bottom & both sided frames (straight frames) will be made as regular frames with inserts;

6). For other Specialty Shutters when curve shape is similar as perfect arch (such as Louver Arch except Louver Arch with Eyebrow curve shape in point 5), Horizontal louvers center arch with quarter round side panels(-Standard louvered arch & Continuous arch), Sunburst louvers center arch with quarter round side panels, Arch Top Picture Window with horizontal louvers, Arch Top Picture Window with Sunburst, Standard unit with horizontal arch center etc.):

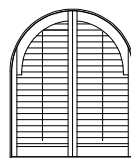
- All deco frames will be made as solid frames;
- All Vintage L frames & Vintage hang strip: all top frames (curve shape frame) will be made as a solid frame but the bottom & both sided frames (straight frames) will be made as regular frames with inserts.



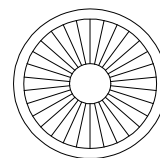
Quarter Round Sunburst



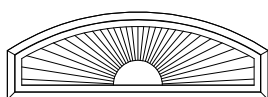
Half Round Sunburst



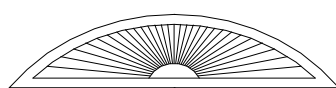
Louvered Arch w/ Center Tilt Rod



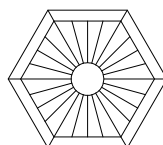
Circle Sunburst



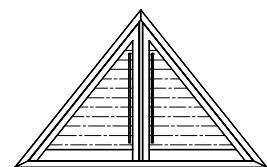
Elongated Eyebrow Sunburst



Eyebrow Sunburst



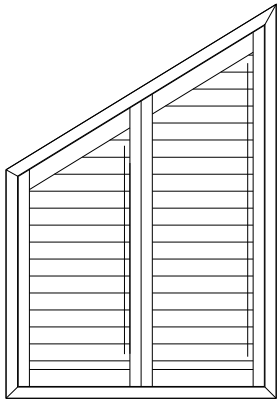
Hexagon Sunburst



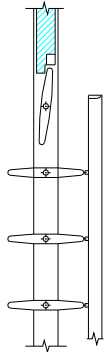
Triangle

\*Some surcharges apply

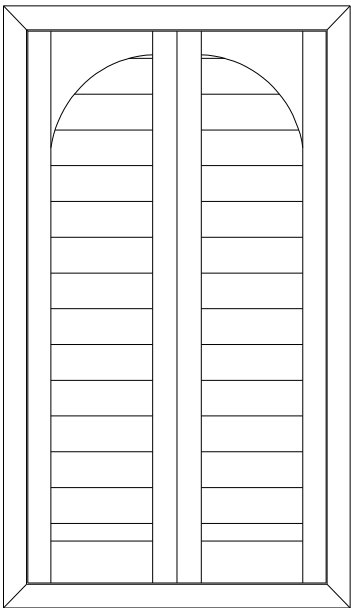
*Normandy Shutters*



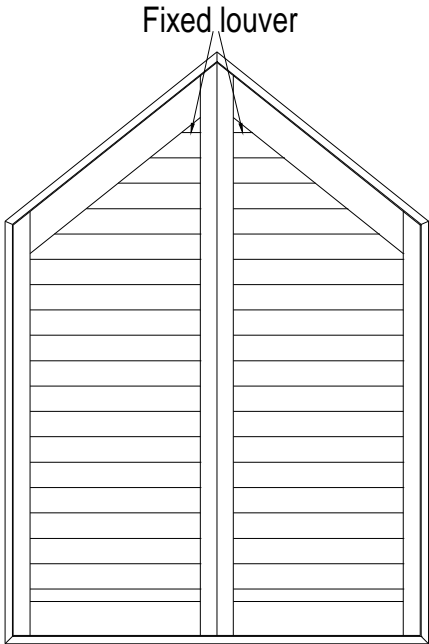
Angle Top



\*Top louver of angle top might be fixed as shown



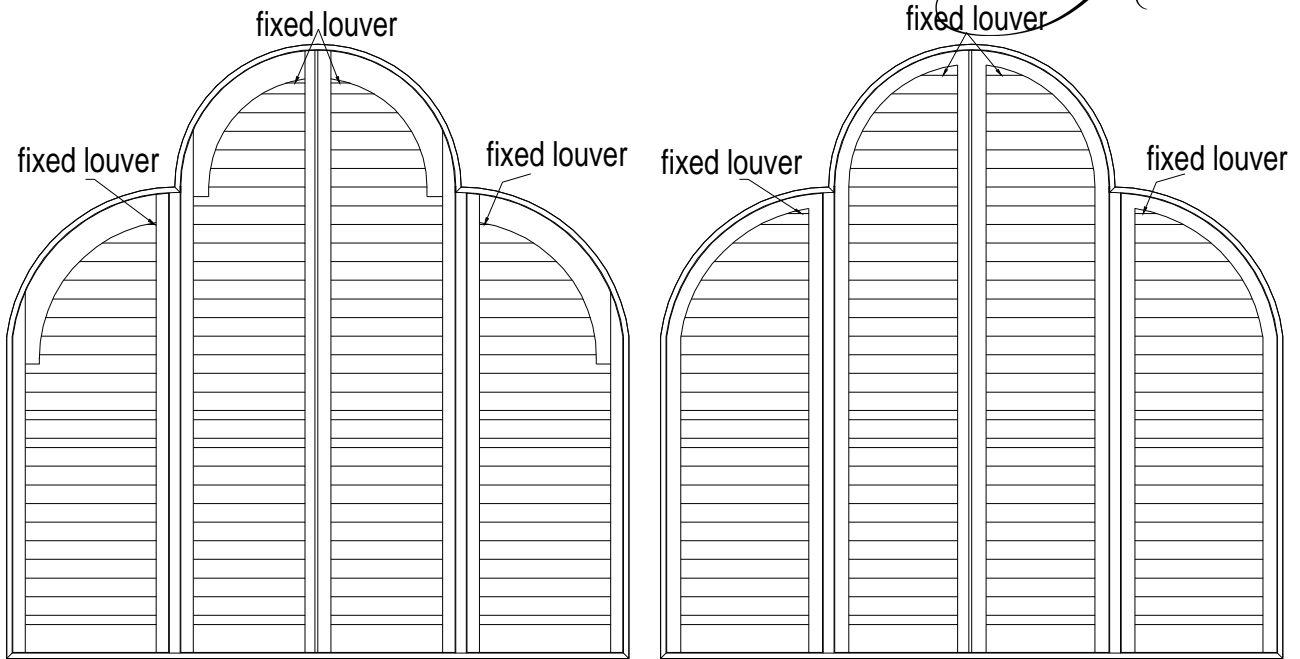
Louver Arch in a Rectangle



Fixed louver

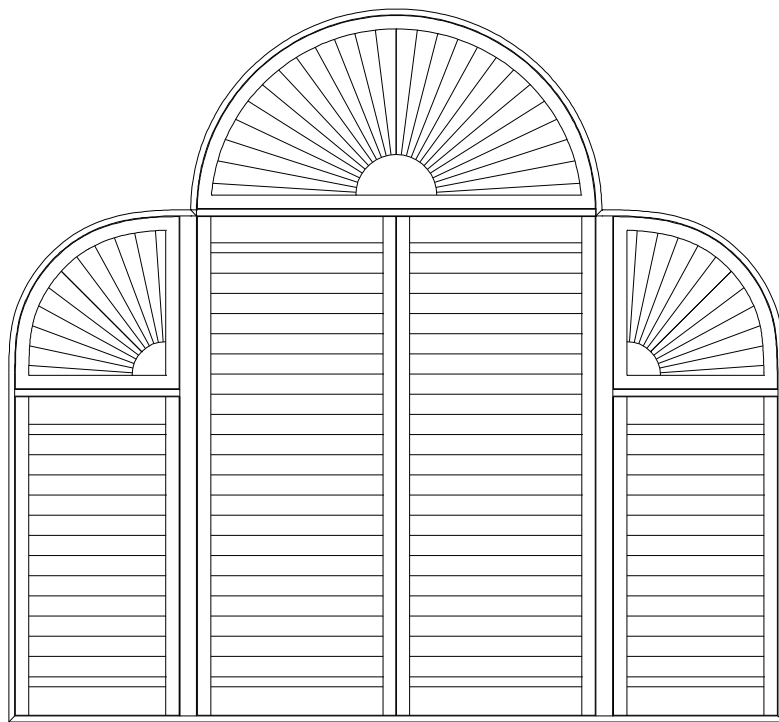
Peak

\*Some surcharges apply



Horizontal louvers center arch  
with quarter round side panels  
-Standard louvered arch

Horizontal louvers center arch  
with quarter round side panels  
-Continuous arch

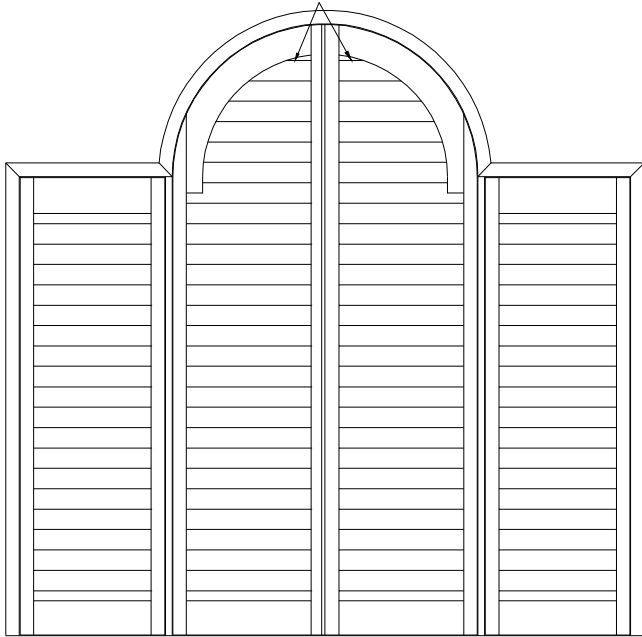


Sunburst louvers center arch with quarter round side panels

\*Some surcharges apply

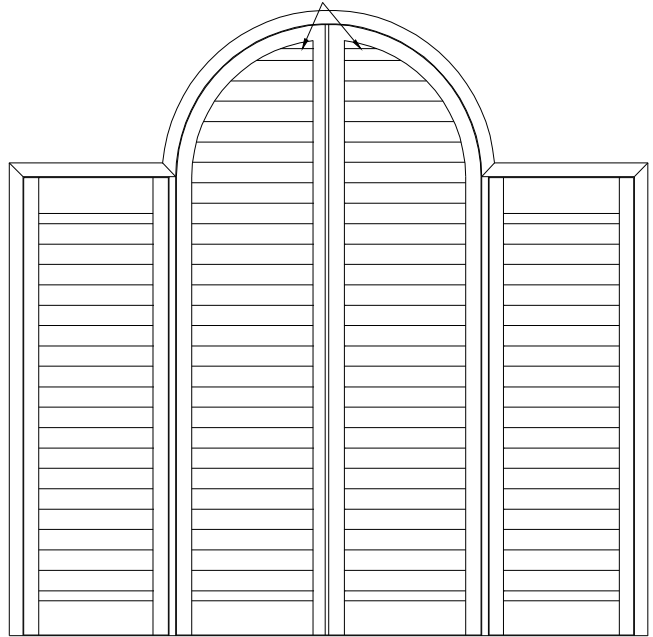


Fixed louver

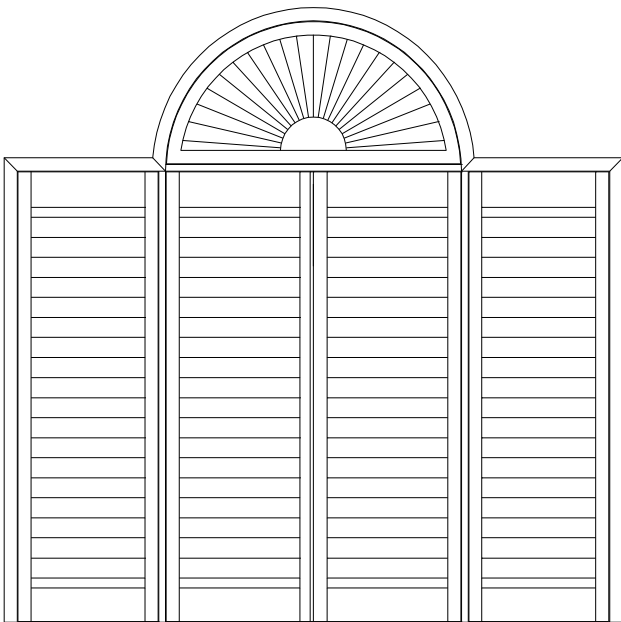


Arch Top Picture Window with horizontal louvers  
-Standard louvered arch

Fixed louver

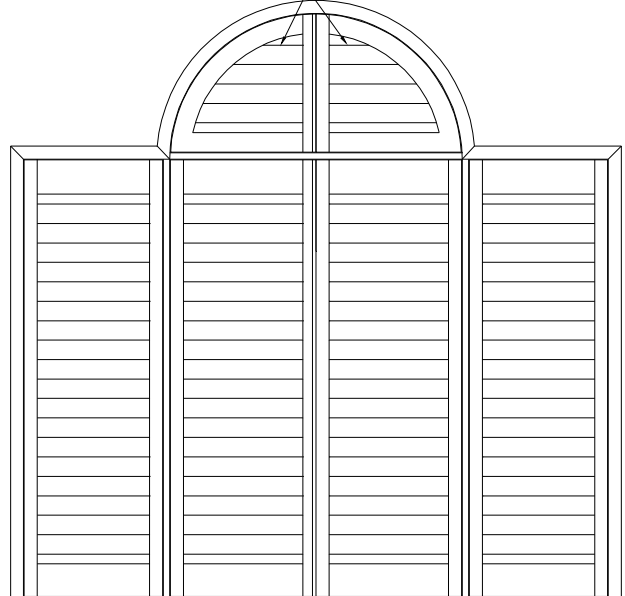


Arch Top Picture Window with horizontal louvers  
-Continuous arch



Arch Top Picture Window with Sunburst

fixed louver



Standard unit with horizontal arch center

\*Some surcharges apply

# Pricing

| 1) By Max Frame-to-Frame Measurement:     |                         |              |              |               |       |          |          |
|---|-------------------------|--------------|--------------|---------------|-------|----------|----------|
| Regular Shutter                           |                         |              |              |               |       |          |          |
| Inside and Outside Mount                  | Width                   | x            | Height       | / 144         | x     | \$/sq ft |          |
| Track Shutter**                           |                         |              |              |               |       |          |          |
| Inside                                    | Width                   | x            | Height       | / 144         | x     | \$/sq ft |          |
| Semi-Inside and Outside Mount             | Width                   | x            | (Height-1½") | / 144         | x     | \$/sq ft |          |
| 2) By Net Panel Measurement:              |                         |              |              |               |       |          |          |
|   | Width                   | x            | Height       | / 144         | x     | \$/sq ft |          |
| 3) By Window Size:                        |                         |              |              |               |       |          |          |
| 2" Camber Deco Frame                      | 4-sided                 | (Width+4")   | x            | (Height+4")   | / 144 | x        | \$/sq ft |
|   | 3-sided with Sill Plate | (Width+4")   | x            | (Height+4")   | / 144 | x        | \$/sq ft |
|   | 3-sided                 | (Width+4")   | x            | (Height+2")   | / 144 | x        | \$/sq ft |
|   | 2 sided with Sill Plate | (Width+4")   | x            | (Height+2")   | / 144 | x        | \$/sq ft |
|   | 2-sided                 | (Width+4")   | x            | (Height)      | / 144 | x        | \$/sq ft |
| 3" Ridge Deco Frame                       | 4-sided                 | (Width+6")   | x            | (Height+6")   | / 144 | x        | \$/sq ft |
|   | 3-sided with Sill Plate | (Width+6")   | x            | (Height+6")   | / 144 | x        | \$/sq ft |
|   | 3-sided                 | (Width+6")   | x            | (Height+3")   | / 144 | x        | \$/sq ft |
|   | 2-sided with Sill Plate | (Width+6")   | x            | (Height+3")   | / 144 | x        | \$/sq ft |
|   | 2-sided                 | (Width+6")   | x            | (Height)      | / 144 | x        | \$/sq ft |
| 2.5" Mission deco frame                   | 4-sided                 | (Width+5")   | x            | (Height+5")   | / 144 | x        | \$/sq ft |
|   | 3-sided                 | (Width+5")   | x            | (Height+2.5") | / 144 | x        | \$/sq ft |
|   | 2-sided                 | (Width+5")   | x            | (Height)      | / 144 | x        | \$/sq ft |
| 3" Crown Z Frame                          | 4-sided                 | (Width+4 ½") | x            | Height+4½")   | / 144 | x        | \$/sq ft |
|   | 3-sided with Sill Plate | (Width+4 ½") | x            | Height+4½")   | / 144 | x        | \$/sq ft |
|   | 3-sided                 | (Width+4 ½") | x            | Height+2¼")   | / 144 | x        | \$/sq ft |
|   | 2-sided with Sill Plate | (Width+4 ½") | x            | Height+2¼")   | / 144 | x        | \$/sq ft |
|   | 2-sided                 | (Width+4 ½") | x            | (Height)      | / 144 | x        | \$/sq ft |
| 2" Bel Air Z Frame<br>2" Bullnose Z Frame | 4-sided                 | (Width+2 ½") | x            | Height+2½")   | / 144 | x        | \$/sq ft |
|   | 3-sided with Sill Plate | (Width+2 ½") | x            | Height+2½")   | / 144 | x        | \$/sq ft |
|   | 3-sided                 | (Width+2 ½") | x            | Height+1¼")   | / 144 | x        | \$/sq ft |
|   | 2-sided with Sill Plate | (Width+2 ½") | x            | Height+1¼")   | / 144 | x        | \$/sq ft |
|   | 2-sided                 | (Width+2 ½") | x            | (Height)      | / 144 | x        | \$/sq ft |
| 1 ½" Bullnose Z Frame                     | 4-sided                 | (Width+2")   | x            | (Height+2")   | / 144 | x        | \$/sq ft |
|   | 3-sided with Sill Plate | (Width+2")   | x            | (Height+2")   | / 144 | x        | \$/sq ft |
|   | 3-sided                 | (Width+2")   | x            | (Height+1")   | / 144 | x        | \$/sq ft |
|   | 2-sided with Sill Plate | (Width+2")   | x            | (Height+1")   | / 144 | x        | \$/sq ft |

|                                    |                 |            |   |               |       |   |          |
|------------------------------------|-----------------|------------|---|---------------|-------|---|----------|
|                                    | 2-sided         | (Width+2") | x | (Height)      | / 144 | x | \$/sq ft |
| Vintage Hang Strip                 | Inside          | Width      | x | Height        | / 144 | x | \$/sq ft |
|                                    | Outside 4-sided | (Width+3") | x | (Height+3")   | / 144 | x | \$/sq ft |
|                                    | Outside 3-sided | (Width+3") | x | ( Height+1½") | / 144 | x | \$/sq ft |
|                                    | Outside 2-sided | (Width+3") | x | (Height)      | / 144 | x | \$/sq ft |
| Beaded L Frame/<br>Vintage L Frame | Outside 4-sided | (Width+3") | x | (Height+3")   | / 144 | x | \$/sq ft |
|                                    | Outside 3-sided | (Width+3") | x | Height+1½")   | / 144 | x | \$/sq ft |
|                                    | Outside 2-sided | (Width+3") | x | (Height)      | / 144 | x | \$/sq ft |
| <b>Track Shutter**</b>             |                 |            |   |               |       |   |          |
| Inside and Semi-Inside Mount       |                 | Width      | x | Height        | /144  | x | \$/sq ft |
| Outside Mount                      |                 | (Width+3") | x | (Height+3")   | /144  | x | \$/sq ft |