

# NORMAN®

SHUTTERS. BLINDS. SHADES.



*Fabricator of Automated & Custom Window Coverings*

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# Woodlore® Shutters

Program Reference Guide

2019

# 2019 Log



Effective Date	Topic	Section	Note
2019/01/01	Colors Option Louvers Options Frame Options Delete Specialty Option	All except j&n	2019 updated specification
2019/01/01	Specialty Option	o	Added Specialty Option but changed to Hardwood Specialty Shapes
Middle of January 2019	Motorized	n	2019 updated specification
2019/01/07	Hardwood Specialty Shape	0	Remove Hardwood Specialty Shape
2019/01/10	Track	j 2	Add 3" louver for Open bypass
2019/02/01	color	e,i,m	Add 6 new hinge colors Change color coordination chart

# Woodlore® Shutters

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Effective 2019

# Woodlore® Shutters

## Features and Benefits

- Built around the concept of modern convenience, Woodlore is made of composite wood harvested from well-managed forests and finished with a polypropylene coating that prevents moisture absorption and allows for easy stain removal. It **resists cupping, warping and twisting**.
- **Reinforced engineered stiles** – Stile core durability reinforced with multiple layers of wood bonded together. The result is a robust support system for shutter panels.
- **UV inhibitor** protects shutters and home décor from UV rays, prevents color fading and sun damage.
- Woodlore's **classic solid colors** harmonize brilliantly with any décor. **The beauty, durability and quality finish** of Woodlore shutters **is reasonably priced**.
- Multiple stile options are available in various sizes to accommodate different window configurations. **Astragal** or **Rabbet stiles** provide a natural light block between panels.
- A wide range of **frames with inserts**, which keep installation screws out of sight for a clean and decorative look, match any style and preference.
- Personalize shutters with **special options**. Choose from fixed louvers, hidden or offset tilt rods, café styles, bay and corner window shutters, track systems and many more.
- Quick and easy on-site assembly and installation with the **pre-installed magnets and hinges, pre-mitered frames** and **slotted keyholes**.
- A guarantee of Norman Shutters exemplary quality with a **lifetime limited warranty on materials and workmanship**.

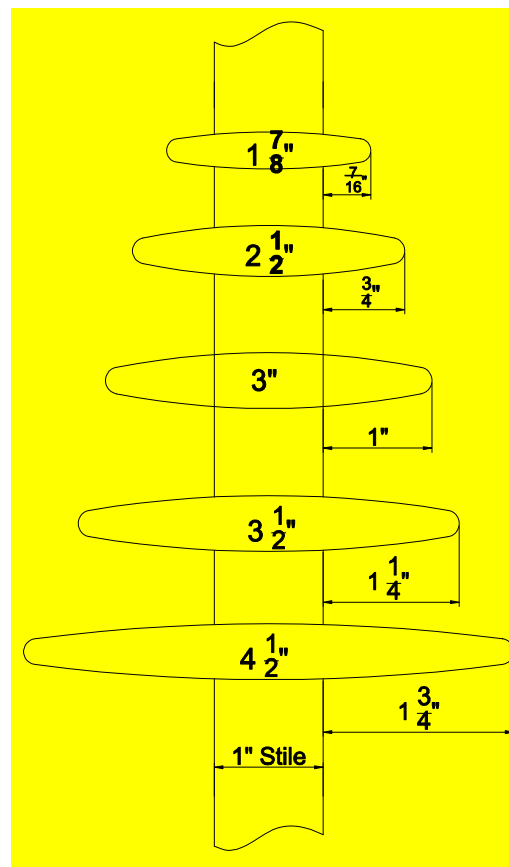
# Woodlore® Shutters

## Colors & Louvers

### Solid Colors

Color ID	Color Name
001	Pure White
003	Silk White
006	Pearl
012	Crisp Linen
019	String
032	Sea Mist
049	Stone Gray
051	Brown Gray
080	Taupe Gray

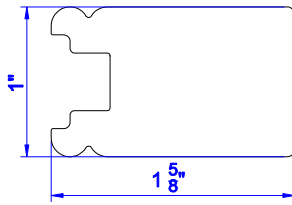
Louvers	
Elliptical	$1 \frac{7}{8}"^*$ $2 \frac{1}{2}"$ <b><math>3"</math></b> $3 \frac{1}{2}"$ $4 \frac{1}{2}"$



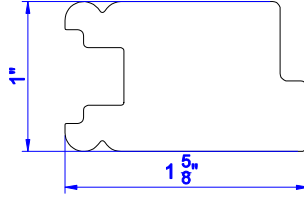
\* Surcharge applies. Please see Options and Surcharges page for details.

# Woodlore® Shutters

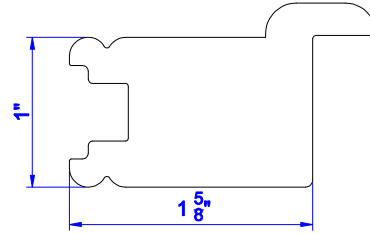
## Stiles Options



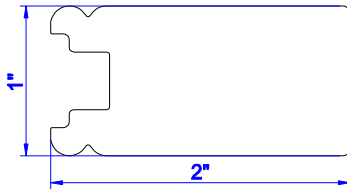
1 5/8" Butt Stile



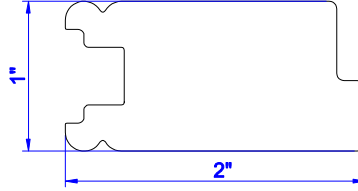
1 5/8" Rabbet Stile



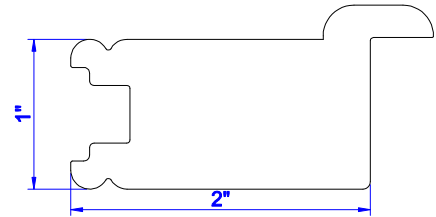
1 5/8" Astragal Stile



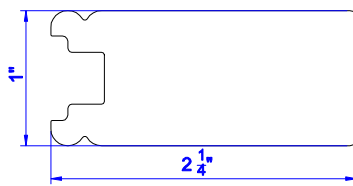
2" Butt Stile



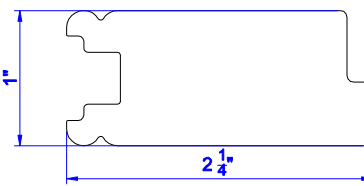
2" Rabbet Stile



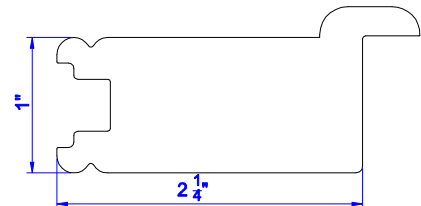
2" Astragal Stile



2 1/4" Butt Stile



2 1/4" Rabbet Stile



2 1/4" Astragal Stile

# Woodlore® Shutters

## Stiles (continued)

### Stile between panel closure

#### Single panel

- I) Panel width < 9"
- Rabbeted stile (Deco frame, L frame, Z frame and Hang strip beside panel)
    - 1  $\frac{5}{8}$ "
    - 2" (default)
  - Butt stile only (Hang strip behind panel)
    - 1  $\frac{5}{8}$ " ( Optional for panel width  $\leq 12$ " )
    - 2" (default)
- II) Panel width  $\geq 9$ "
- Butt stile only
- 1  $\frac{5}{8}$ " ( Optional for panel width  $\leq 12$ " )
  - 2" (default)



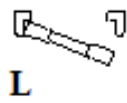
#### 2 panels or more

- Rabbet stile
  - 1  $\frac{5}{8}$ " ( Optional for panel width  $\leq 12$ " )
  - 2" (default)
- Astragal stile
  - 1  $\frac{5}{8}$ "
  - 2"

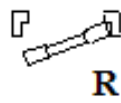
# Woodlore® Shutters

## Panel Configurations

### Single Panel



OR



### Two Panels



LR



LL

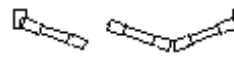


RR

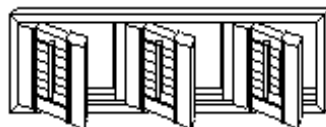
### Three Panels



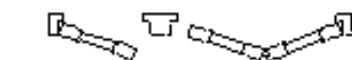
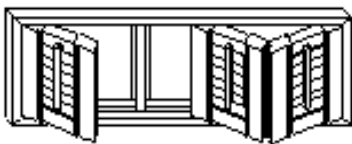
LLR



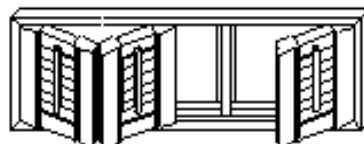
LRR



LTLTL



LTRR



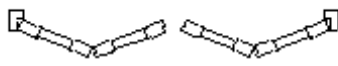
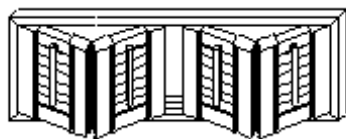
LLTR



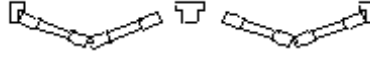
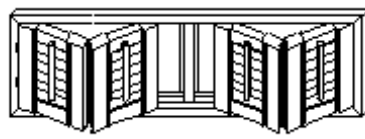
# Woodlore® Shutters

## Panel Configurations (continued)

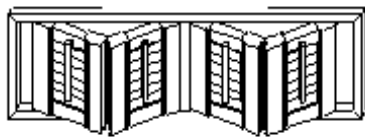
### Four Panels



**LLRR**



**LLTRR**

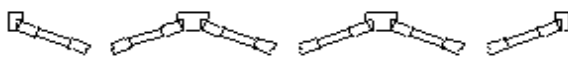


**RRTLL**

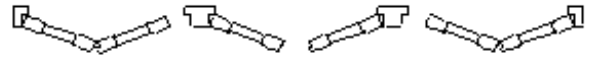


**LTLRTR**

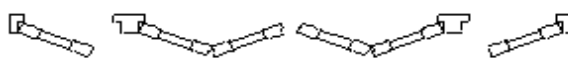
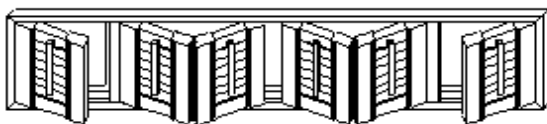
### Six Panels



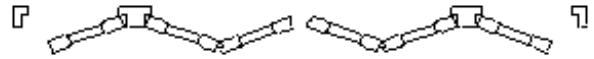
**LRTLRTLRL**



**LLTLRTRR**



**LTLRLRTR**

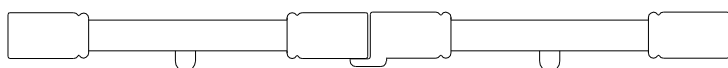


**RTLRLRTL**

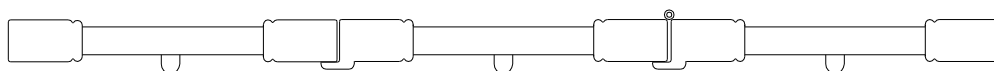
# Woodlore® Shutters

## Panel Configurations – Astragal Stile

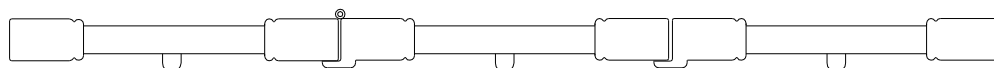
- 2 Panels – LR/LL/RR



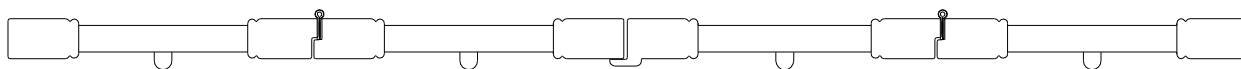
- 3 Panels - LRR



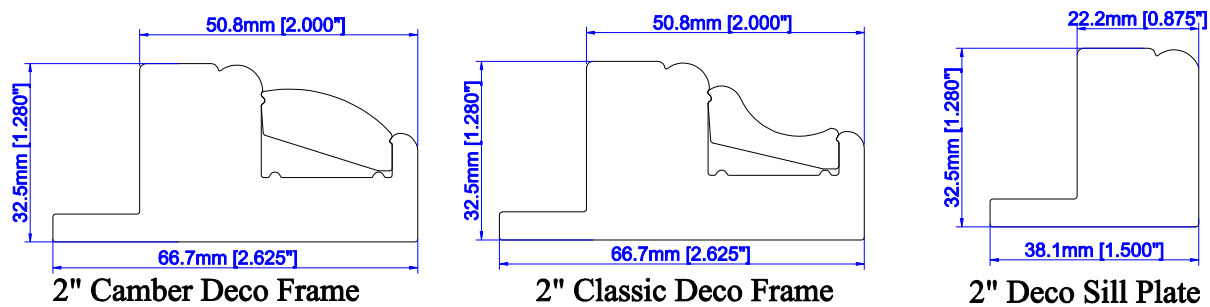
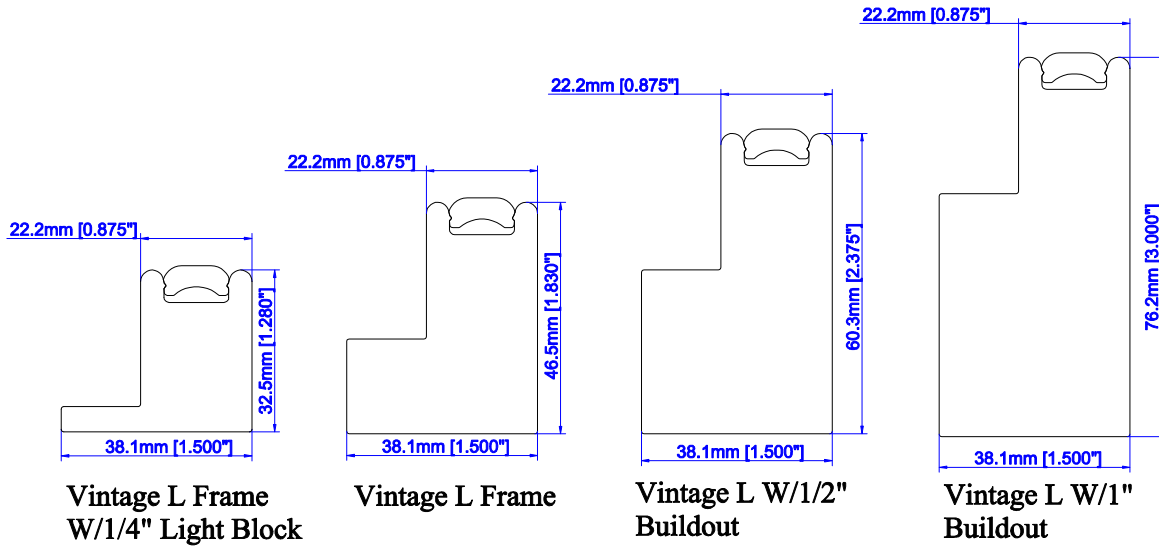
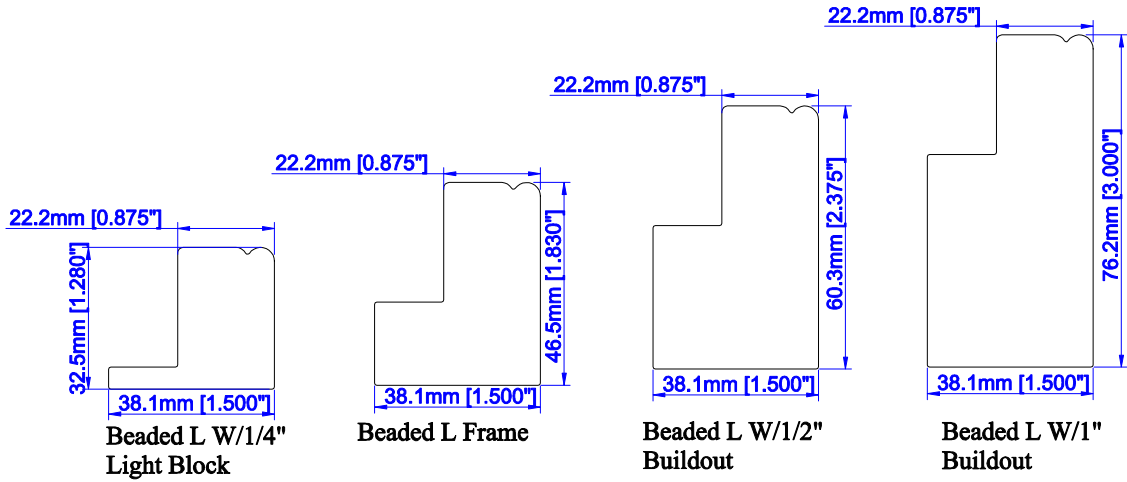
- 3 Panels – LLR



- 4 Panels - LLRR

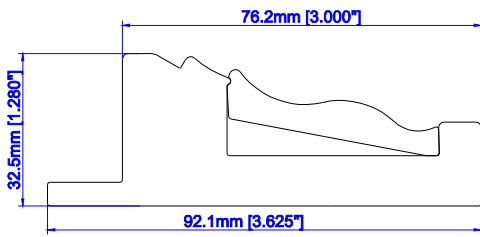


## Frame Styles

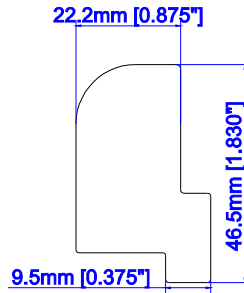


\*Surcharge applies. Please see Options and Surcharges page for details.

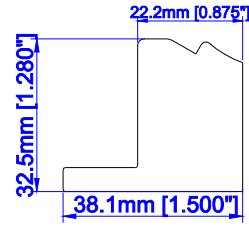
## Frame Styles



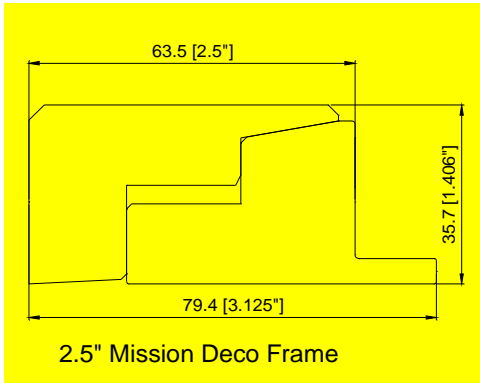
**3" Ridge Deco Frame**



**Tilt Out Z Frame**



**Ridge Deco Sill Plate**



**2.5" Mission Deco Frame**

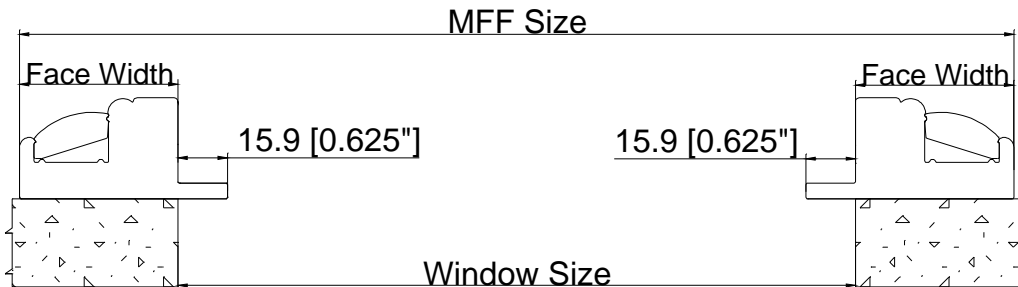
There are 2 options for the Deco frame installation when Window Size is given (Take Camber Deco frame as an example)

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;

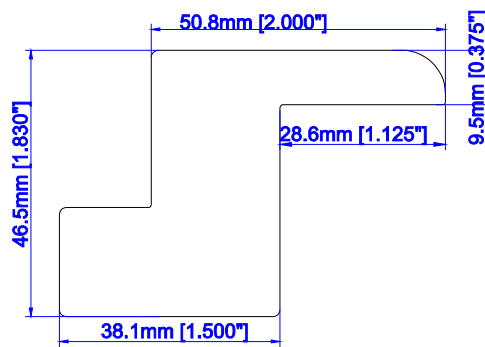
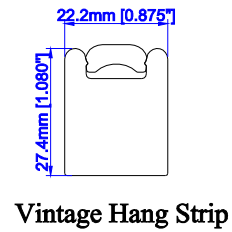
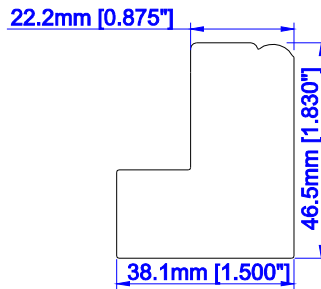
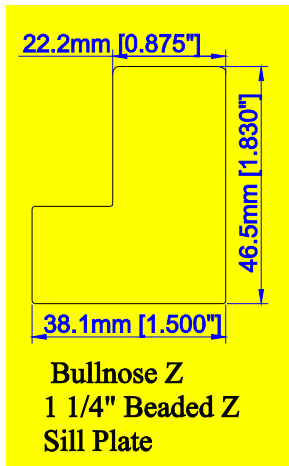
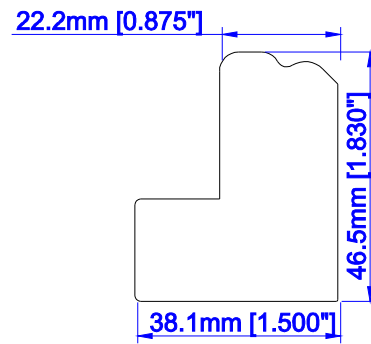
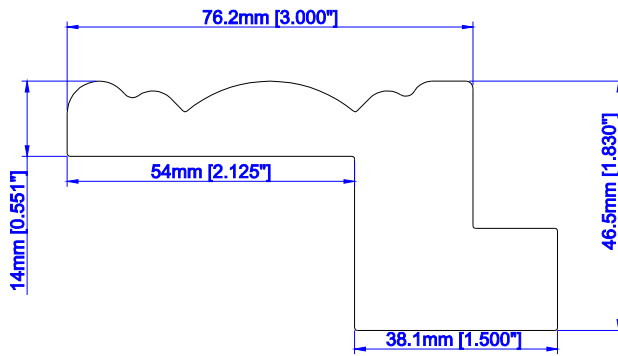
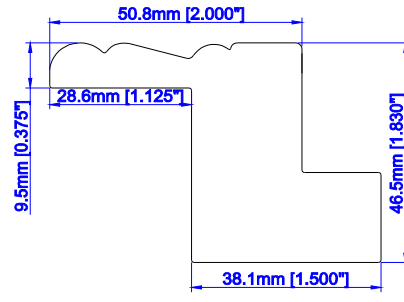
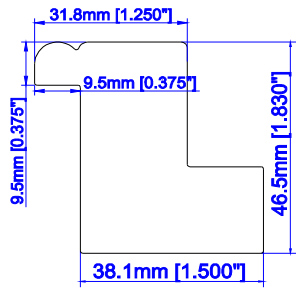
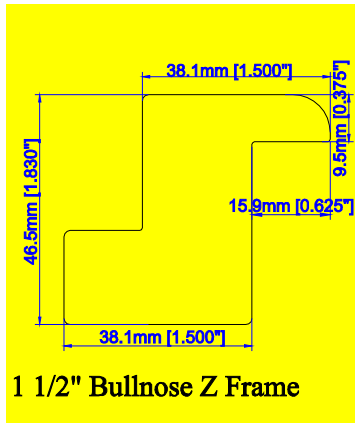
The MFF size = Window Size + Frame Back Width



\*Surcharge applies. Please see Options and Surcharges page for details.

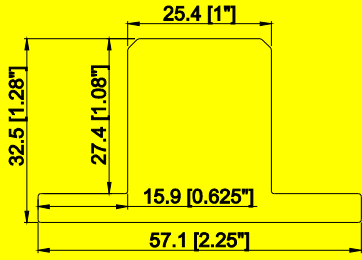
# Frame Styles

*Woodlore Shutters*

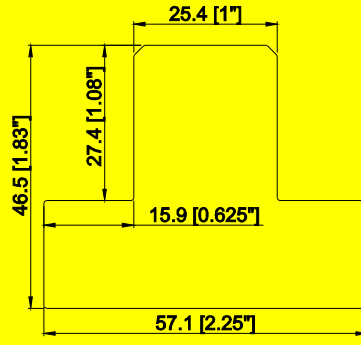


\*Surcharge applies. Please see Options and Surcharges page for details.

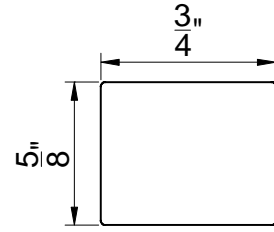
## Frame Styles



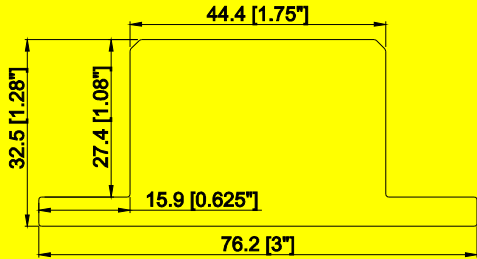
**1" Chamfer T Post W/ 1/4" Light Block (Deco)**



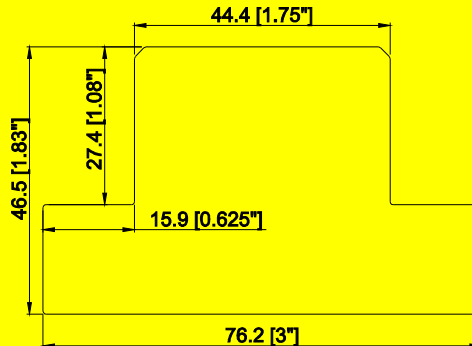
**1" Chamfer T Post W/ 3/4" Light Block (L/Z/HS)**



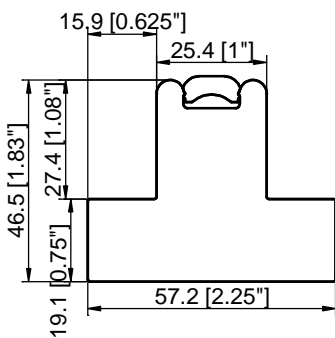
Light Block



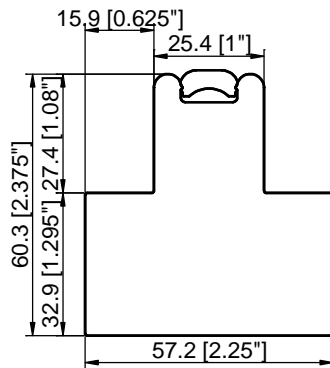
**1.75" Chamfer T Post (Deco)**



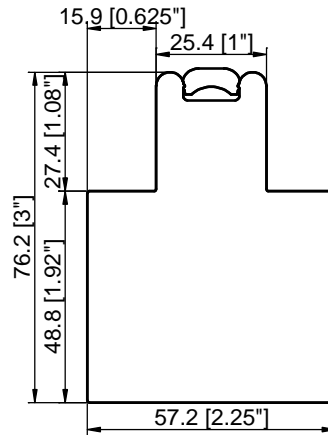
**1.75" Chamfer T Post (L/Z/HS)**



**1" T Post with Insert  
w/ 3/4" Light Block**



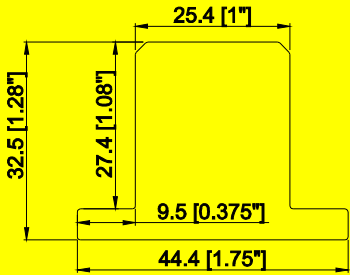
**1" T Post with Insert  
w/ 1 5/16" Light Block**



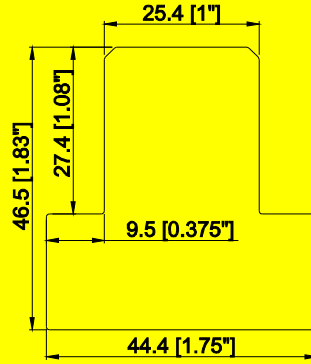
**1" T Post with Insert  
w/ 1 15/16" Light Block**

\*Surcharge applies. Please see Options and Surcharges page for details.

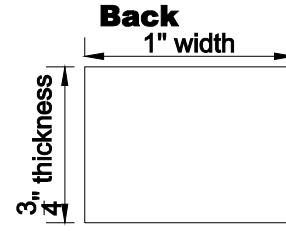
## Frame Styles



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

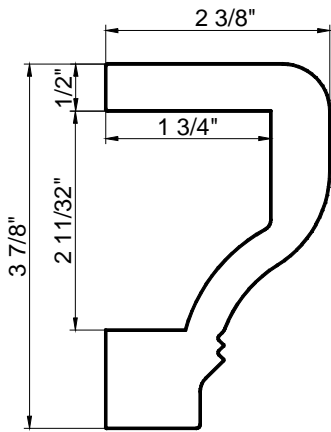


1" Chamfer T Post W/ 3/4" Thick  
3/8" Wide Light Block (L/Z/HS)

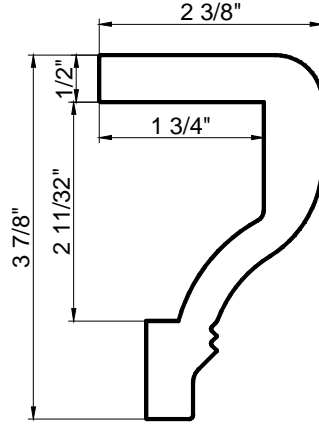


**Front**  
1" \* 3/4" Post (No light block)

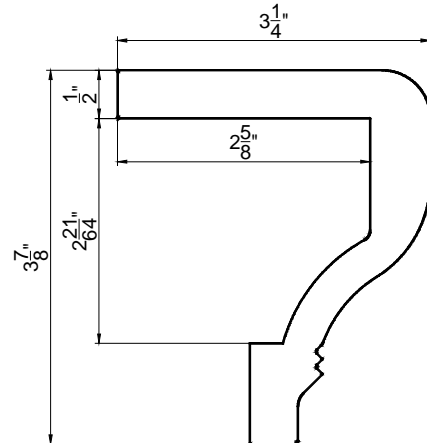
Note: The 1"x3/4" Post (No Light Block) is only available for Direct Mount. And no hardware will be supplied to install it on the existing window opening.



Curved Designer Sill Cap (L)



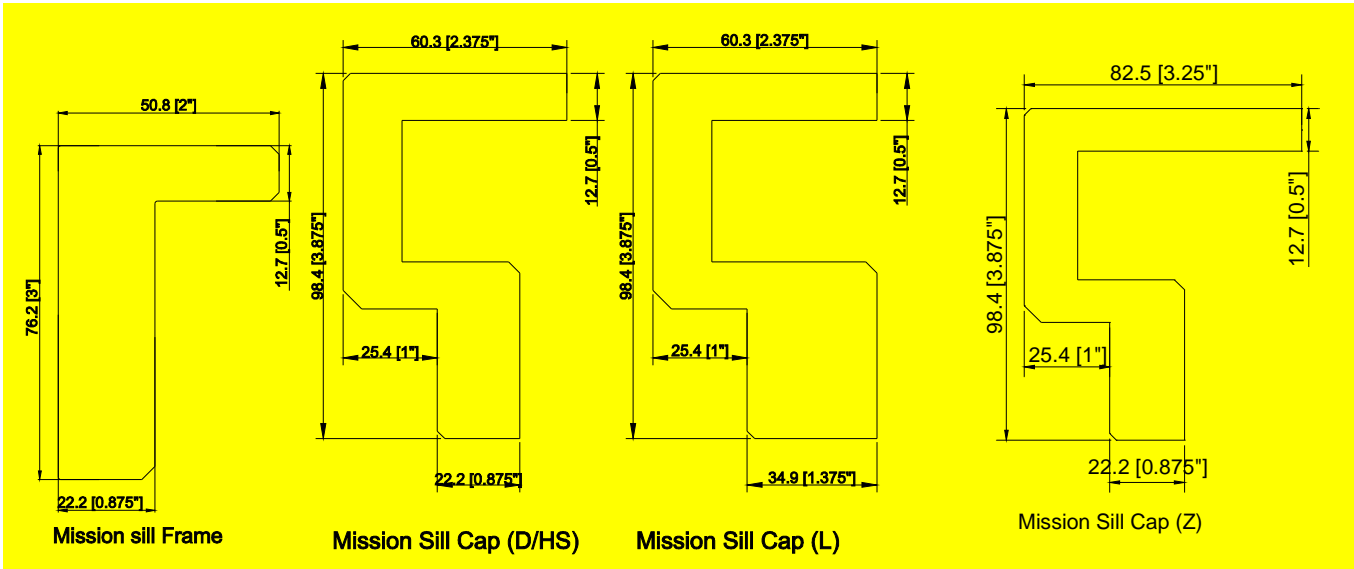
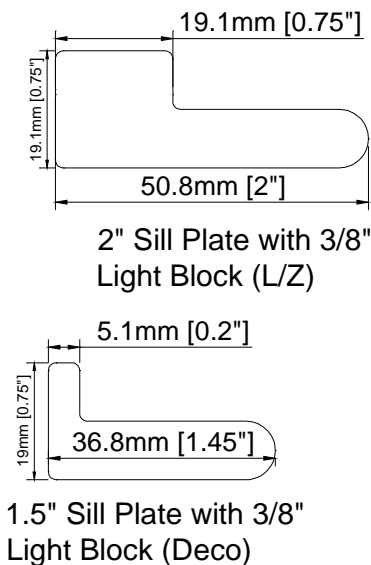
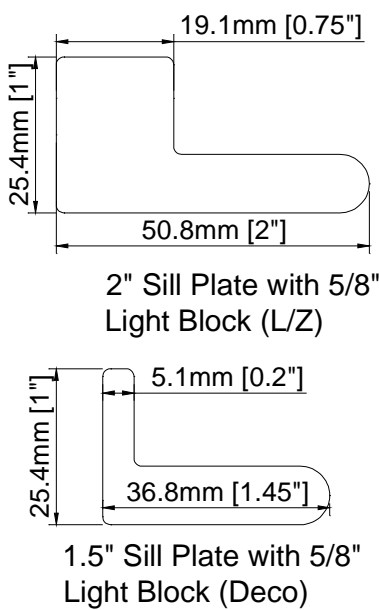
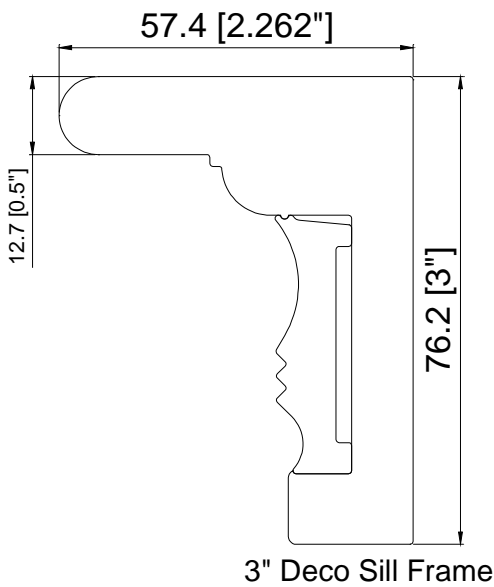
Curved Designer Sill Cap (D/HS)



Curved Designer Sill Cap (Z)

\*Surcharge applies. Please see Options and Surcharges page for details.

Frame Styles

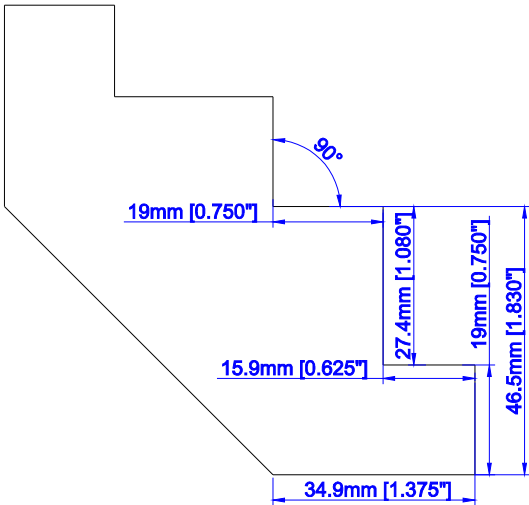


Note: For Mission Sill Cap, the extended size at each side needs to be 1" at least.

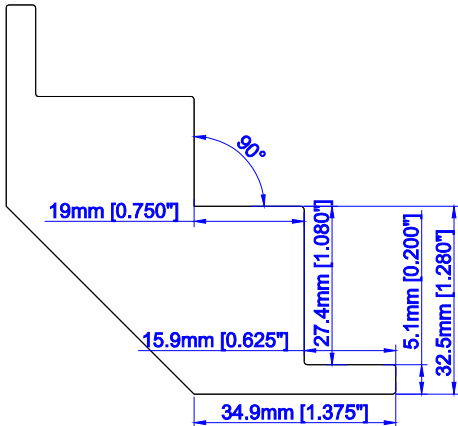
\*Surcharge applies. Please see Options and Surcharges page for details.



Frame Styles

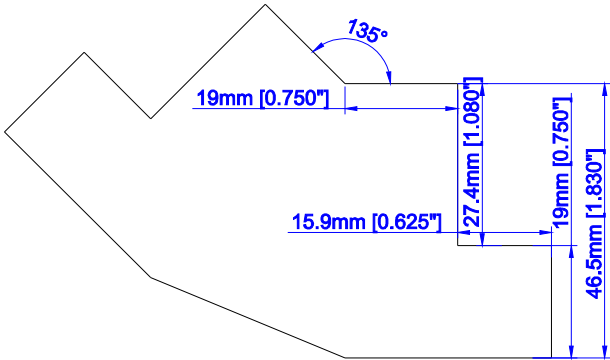


Corner Post W/ 3/4"  
Light Block (L/Z/HS)

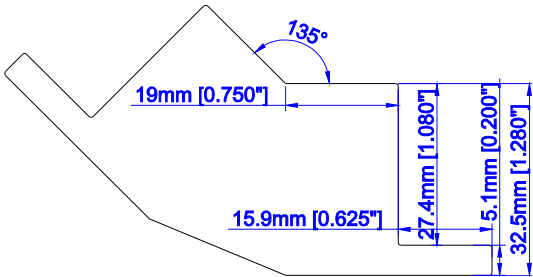


Corner Post W/ 1/4"  
Light Block (Deco)

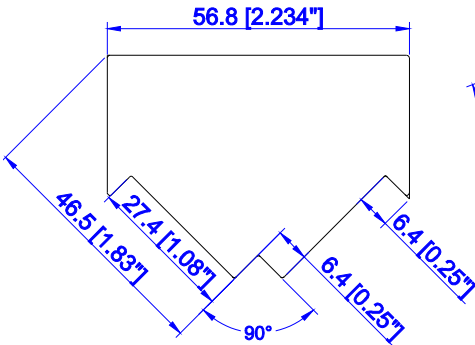
\*Notch out corner post required if ordering Z Frame with solid drywall corner.



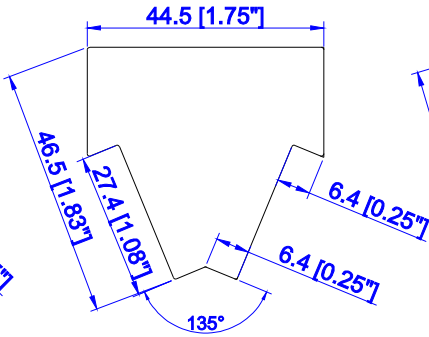
Bay Post W/ 3/4"  
Light Block (L/Z/HS)



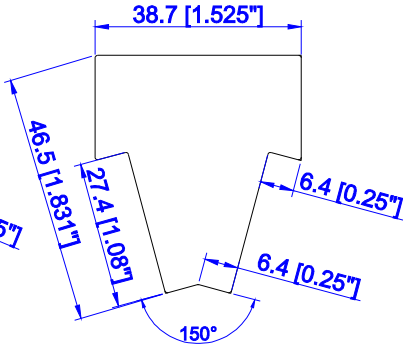
Bay Post W/ 1/4"  
Light Block (Deco)



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



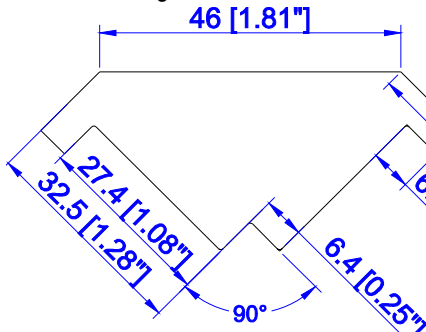
Slim Fit Bay Post for  
135 Degree (L/Z/HS)



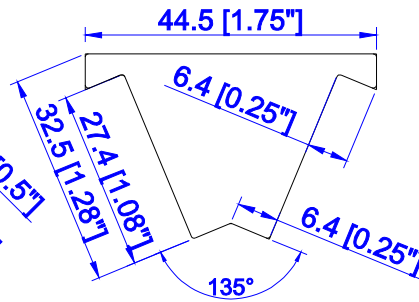
Slim Fit Bay Post for  
150 Degree (L/Z/HS)

\*Surcharge applies. Please see Options and Surcharges page for details.

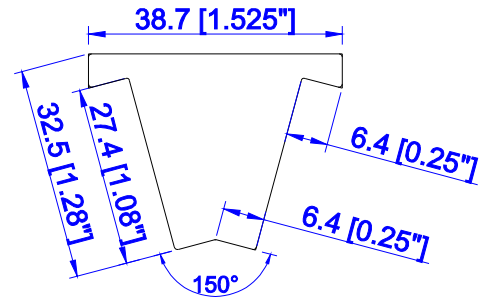
## Frame Styles



Slim Fit Corner Post for 90 Degree (D)



Slim Fit Bay Post for 135 Degree (D)



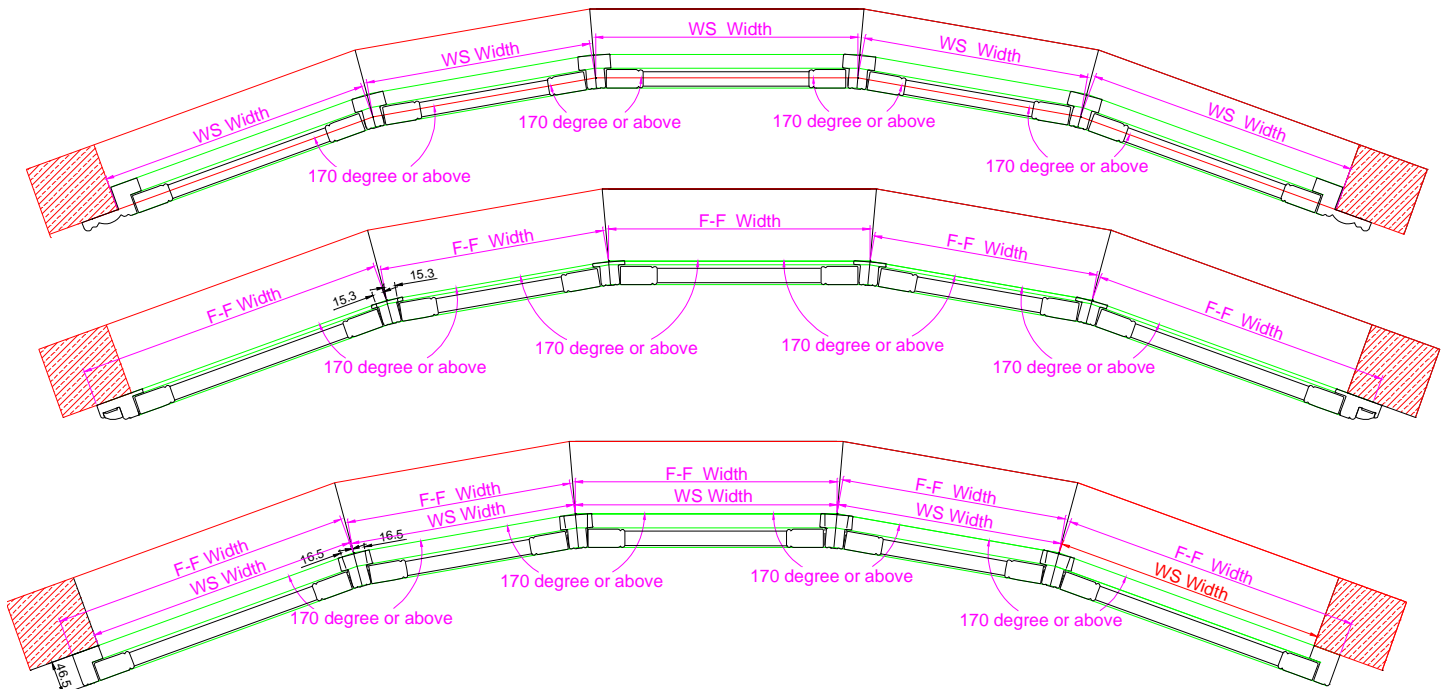
Slim Fit Bay Post for 150 Degree (D)

Also available

- Custom width\* up to 7½ for T Posts (Made of Wood)
- Custom angle bay posts\* (Made of Wood)

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

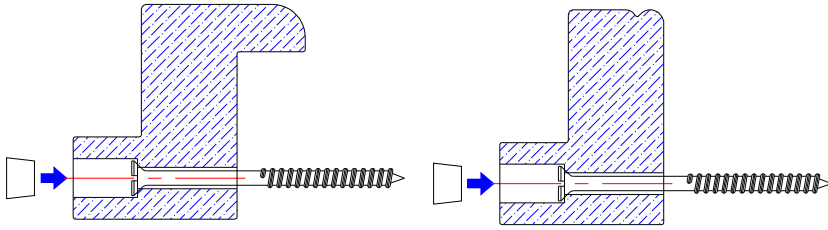
- 1" T Post with 3/8" light block will be used as Bay post;
- For Hang Strip (Behind Panel), bay post will be used.



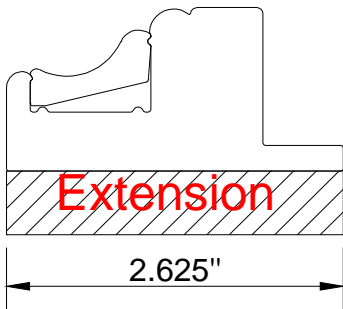
\*Surcharge applies. Please see Options and Surcharges page for details.

## Frame Styles

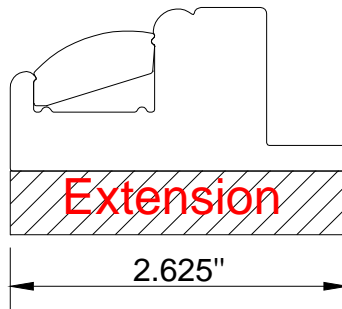
Pre-drill L Frames (Inside Mount Only) or Z frames:



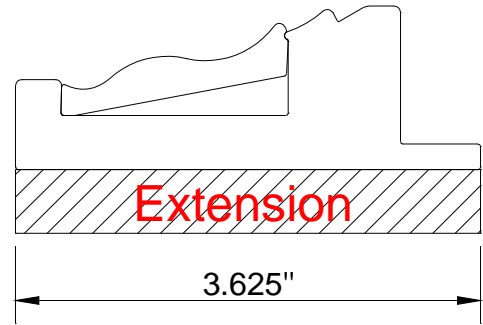
**Extension for Deco Frame\* (Default to have full extension):**



2"Classic Deco Frame with extension



2"Camber Deco Frame with extension



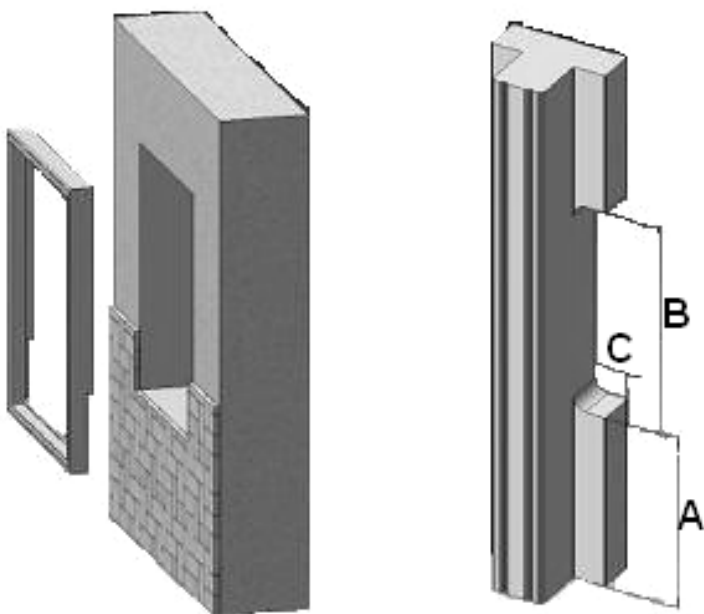
3"Ridge Deco Frame with extension

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.

### Notch out\*:

- o L Frame
- o T Post

Specify dimensions in special instruction box.



\*Surcharge applies. Please see Options and Surcharges page for details.



## General Product Specifications

<u>Description</u>	<u>Minimum</u>	<u>Maximum</u>
Single Panel Width (Regular)	6"	24" for 1 7/8" louver 30" for 2 1/2", 3", 3 1/2", 4 1/2" louver;
Single Panel Width (Bifold)	6"	24"
Single Panel Width (Bifold Track)	6"	24"
Single Panel Height	10"	120"
Shutter Width (Without T Post)	N/A	4x single panel width (bifold) + frame
Shutter Width (With T Post)	N/A	Unlimited (For orders shipped by sea, frames longer than 142" will be spliced in the middle. For orders shipped by air, frames longer than 120" will be spliced in the middle.)
Shutter Height	N/A	120" + frame

### Shutters without bottom supports

Woodlore 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.

Therefore, we strongly discourage the use of shutters for this application. We will continue to manufacture these shutters; however, they will not be covered under our warranty and will be subject to the guidelines listed below:

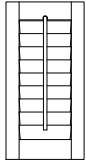
### All Woodlore panel configurations:

- You must inform NWF of situations where shutters will not have bottom support when placing the initial order.
- 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. You must release Norman Shutters from liability in these situations.
- If you fail to notify Norman Shutters that the shutter will be used without bottom support, this will constitute a misapplication of the shutter. Consequently, you will be responsible for the cost of any RGA that is submitted.
- If you want a bifold shutter, a track must be ordered to support the panels. Without a track, Norman Shutters will not manufacture the order even with liability waived.

## Tilt Rods

### Standard Tilt Rod

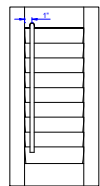
**Default Location:** In the middle of the panel on front side (default).



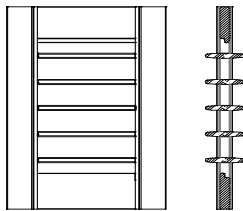
### Offset Tilt Rod\*

**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 customer requires the split tilt in custom position, the measurement will be as follows, please note that the louvers are in close position when measured.

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 to the top of the louver.

\* Surcharge applies. Please see Options and Surcharges page for details.

## 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.
- Required for panel heights over 74".

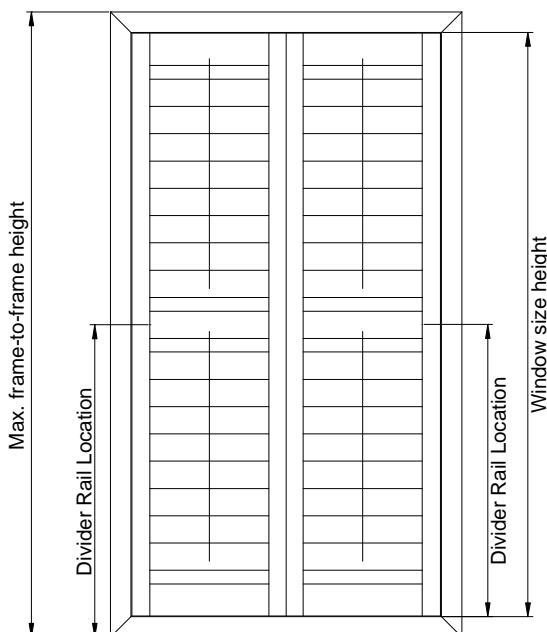
### Specifications

- 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.



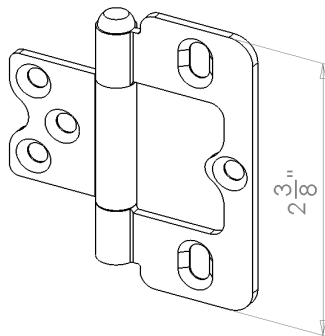
**Divider rail allowable deviations**

Louver Size	Allowable $\pm$ Deviation
1 $\frac{7}{8}$ "	$\frac{3}{4}$ "
2 $\frac{1}{2}$ "	1"
3"	1 $\frac{1}{4}$ "
3 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "
4 $\frac{1}{2}$ "	2"

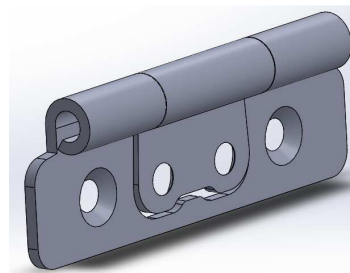
## Hardware

### Hinges

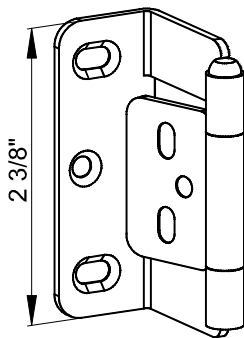
Self-Mortise Hinge



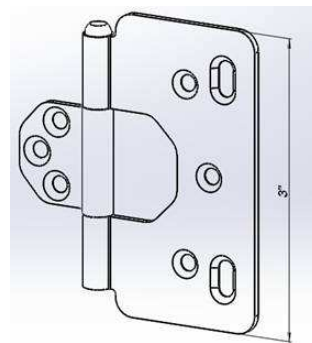
Bi-fold Hinge



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 Plated and Stainless Steel\*, Crisp Linen, String, Sea Mist, Stone Gray, Brown Gray, Taupe Gray.

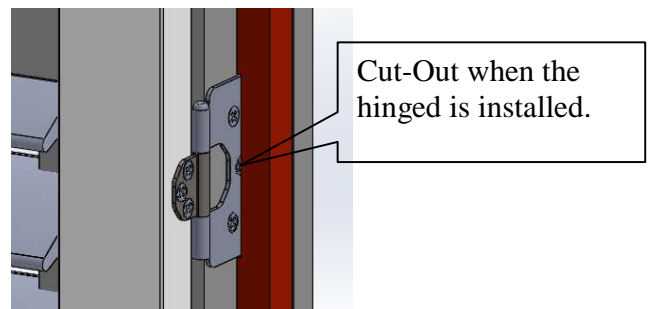
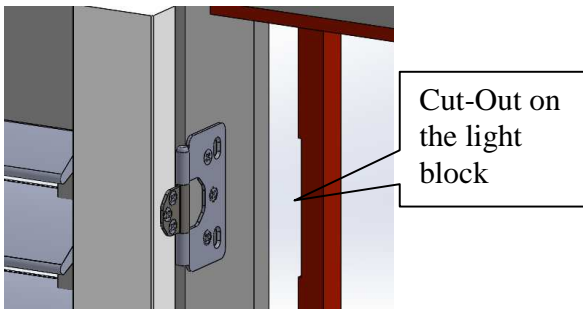
While hinge colors of Crisp Linen, String, Sea Mist, Stone Gray, Brown Gray, Taupe Gray are not available for Direct mount 3" Hinges.

- 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;

# Woodlore® Shutters

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 confliction, there will be cut-out for the light block of the hinged side. Please refer to the drawing below.

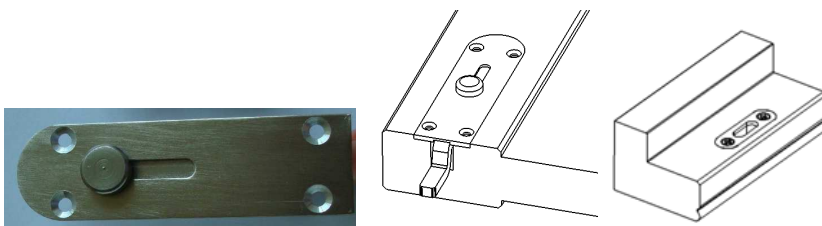
\* Surcharge applies. Please see Options and Surcharges page for details.



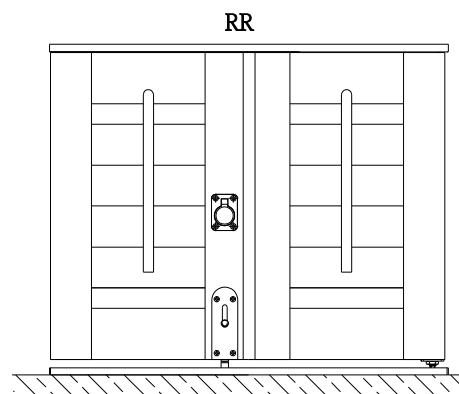
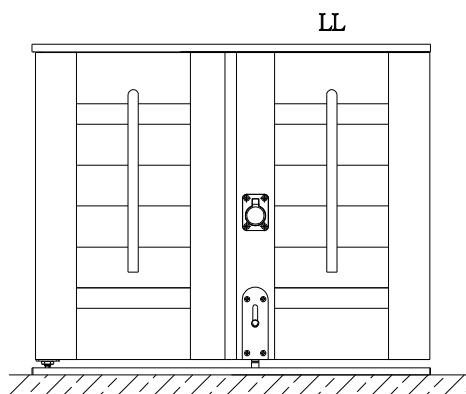
## Panel Lock: (not available for 1.625" Stile)

Available Material: All

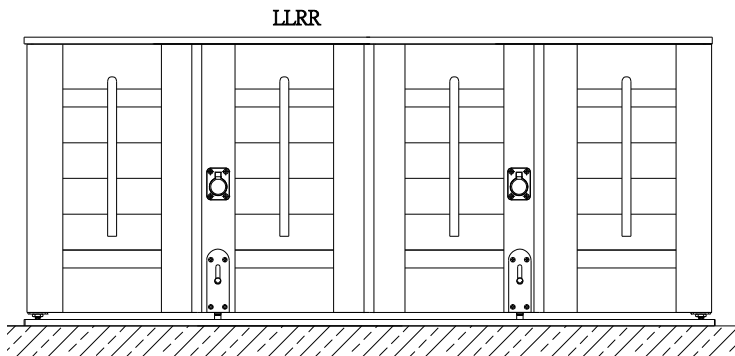
Color: Brush Nickel-Plated



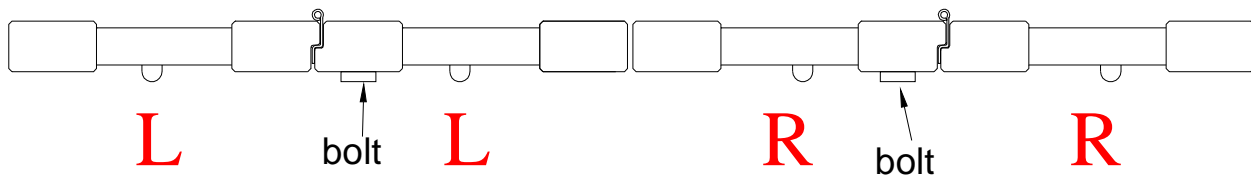
**Position: (Only available on Bottom for Track Shutters with Bottom Track; For Regular, available on Top/Bottom/both Top and Bottom)**





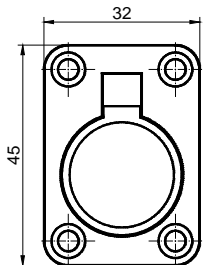


The Panel Lock location for both track system shutters and regular shutters would be the same. The general principle is that the Panel Lock position will avoid the stile which will install the spring-loaded guide at bottom (same stile as the Wheel carrier).



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

**(Not available for 1.625" Stile)**



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

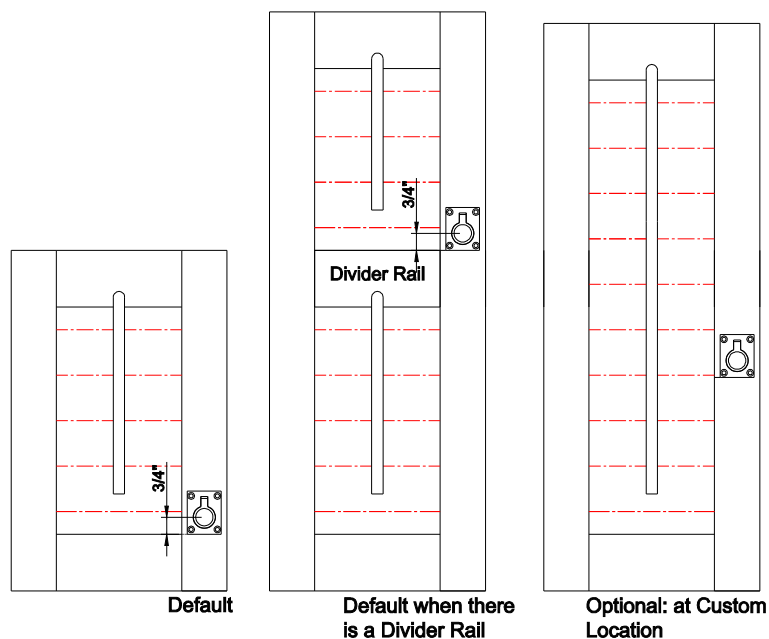
Please see the matching chart below:

Hinge color	Pure White	Silk White	Bisque	Pearl	Black	Nickel	Brushed Nickel	Oil-Rubbed	Antique Brass	Bright Brass	Stainless Steel
Ring Pull color	White	White	Bisque	Pearl	Black	Brushed Nickel	Brushed Nickel	Black	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	New Hinge color (Default)	New Ring pull color	New T post connector color	Top Track color (Default)	Direct Mount 3" Hinge color (Default)
001	Pure White	Pure White	White	Pure White	White	Pure White
003	Silk White	Silk White	White	Silk White	White	Silk White
006	Pearl	Pearl	Pearl	Pearl	White	Pearl
012	Crisp Linen	Crisp Linen	Bisque	Bisque	White	Bisque
019	String	String	Bisque	Bisque	White	Bisque
032	Sea Mist	Sea Mist	Brushed Nickel	Nickel Plated	Anodised Silver	Nickel Plated
049	Stone Gray	Stone Gray	Brushed Nickel	Nickel Plated	Anodised Silver	Nickel Plated
051	Brown Gray	Brown Gray	Brushed Nickel	Nickel Plated	Anodised Silver	Nickel Plated
080	Taupe Gray	Taupe Gray	Brushed Nickel	Nickel Plated	Anodised Silver	Nickel Plated

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

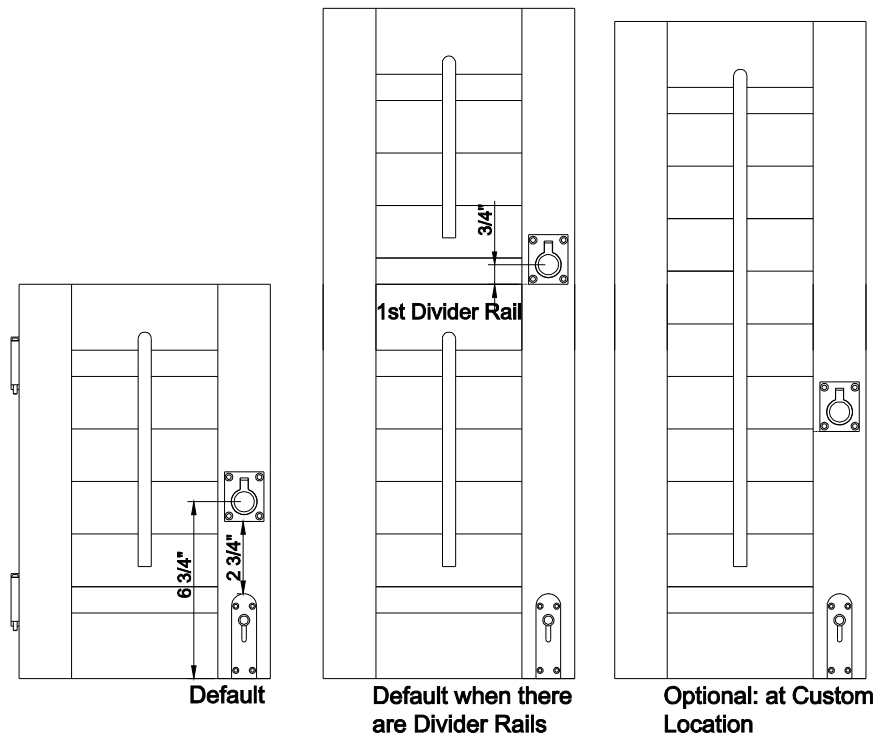


Position:

- 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:**

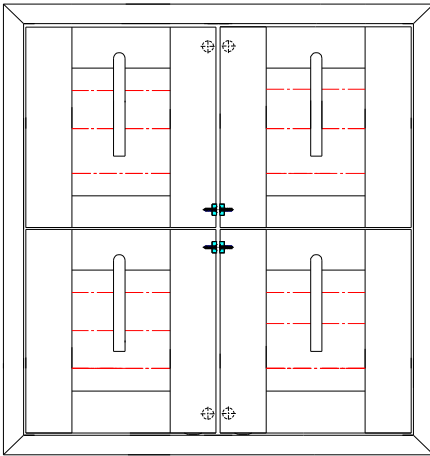
- Window size:
  - Measure from the bottom of the window to the center of the ring pull.
- Max frame-to-frame:
  - Measure from the bottom of the frame to the center of the ring pull.

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



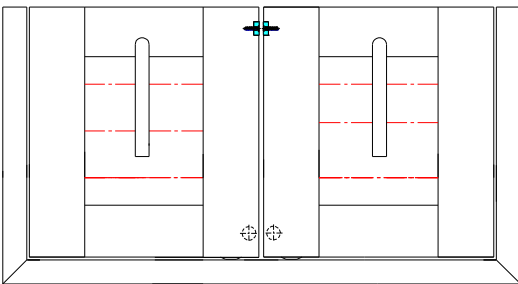
Side Magnets will be applied in following situation:

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)



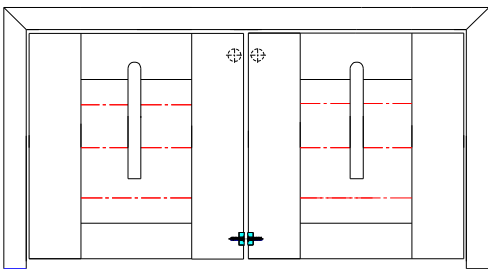
## 2. Café Shutter

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

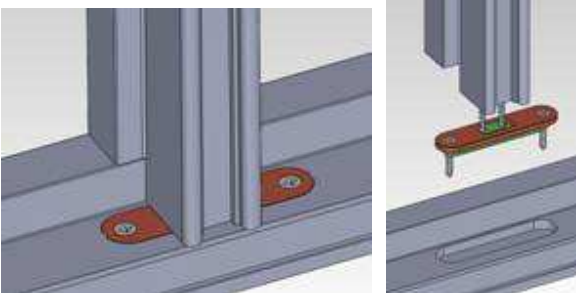


## 3. No frame or light block or L-shape striker plate on either top or bottom, or if larger than standard top or bottom gap is requested.

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



## T-Post Connector

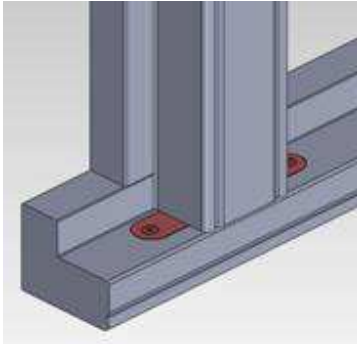


- Available colors: Pure White; White; Pearl; Bisque; Black; Nickel-Plated.

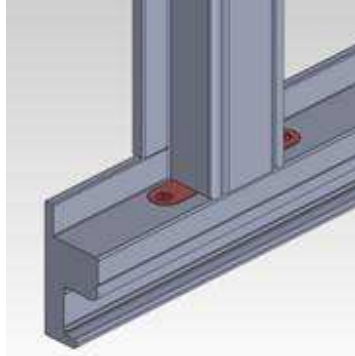
- Available for all types of T Posts (custom-width T posts excluded).

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

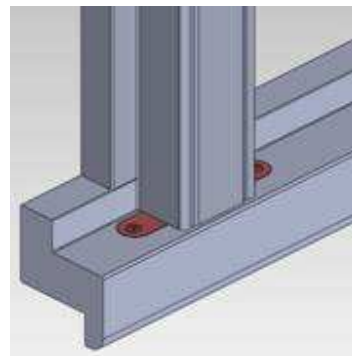
**L Frame:**



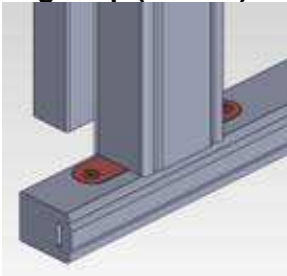
**Deco Frame:**



**Z Frame:**



**Hang Strip (Beside)**

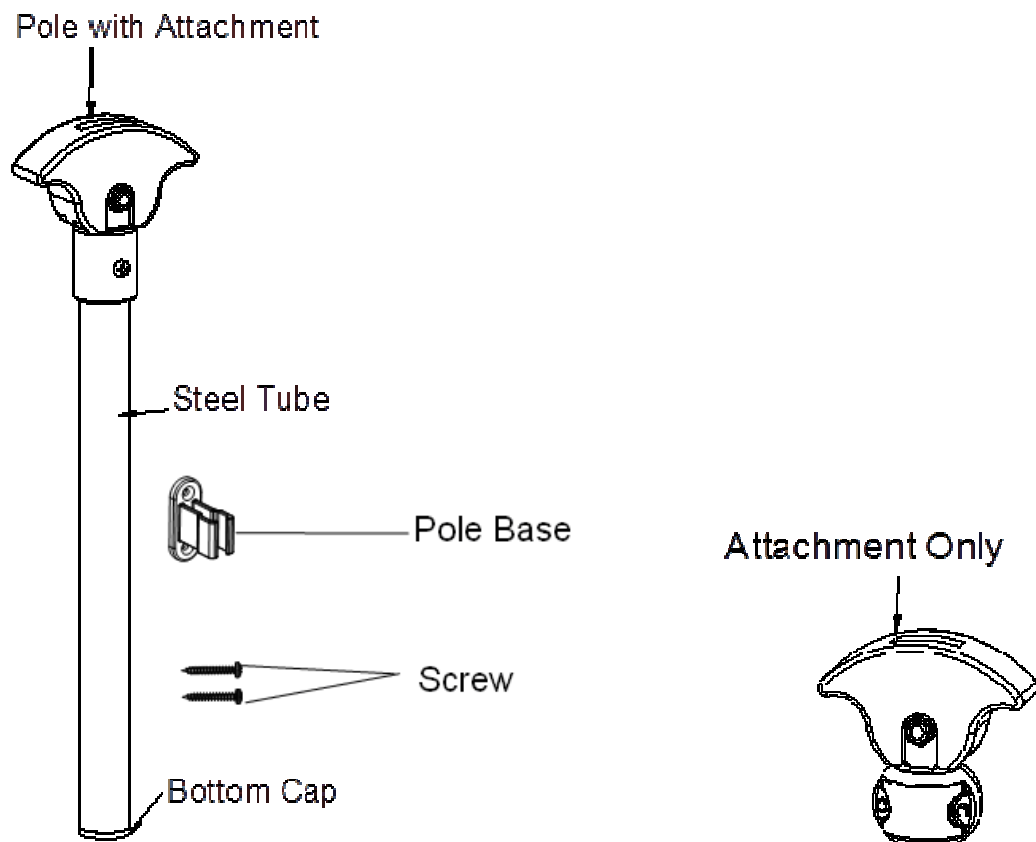


**Note:**

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



## Component

NO.	Name	Note
1	Pole with Attachment	Steel tube, Pole Base and Bottom Cap included * Surcharge applies.
2	Attachment only	<ul style="list-style-type: none"> <li>● Compatible with extension poles found in most home improvement stores.</li> <li>● Screw thread (3/4") and thread pitch (1/5")</li> </ul> * Surcharge applies.

## 2. Available Pole Length

Two lengths available:

- 32"
- 43"

## Bi-fold 180™

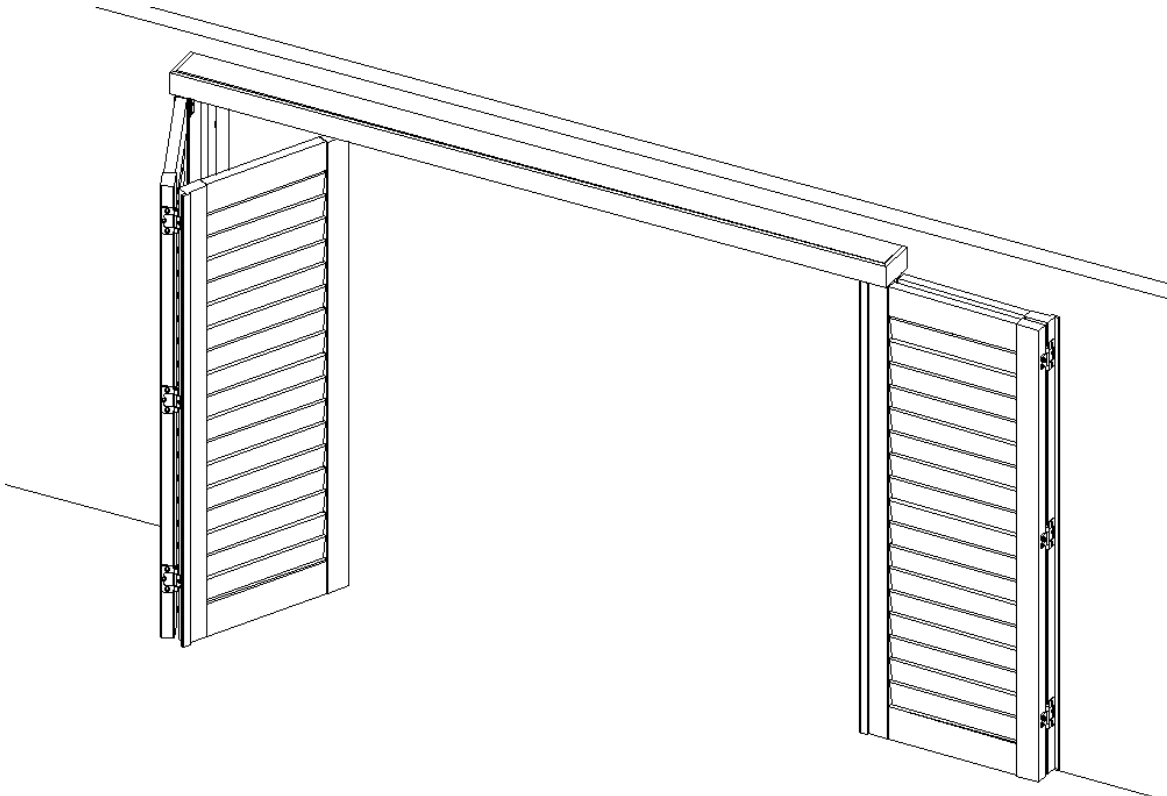
### Guidelines and Specs:

<u>Description</u>	<u>Minimum</u>	<u>Maximum</u>
Single-Panel Width (Bi-fold Track)	6"	24"
Single-Panel Width (LLL/RRR)	N/A	N/A
Single-Panel Height	10"	120"

#### Outside Mount

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

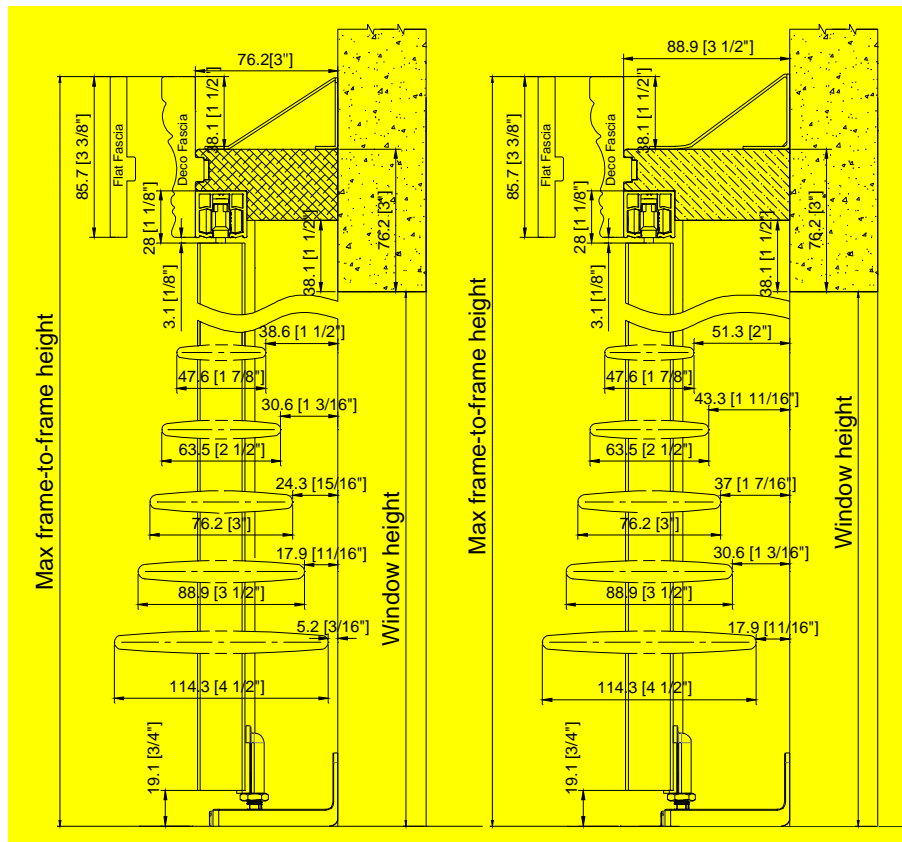
Max frame-to-frame height: window height + 4 1/2"



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

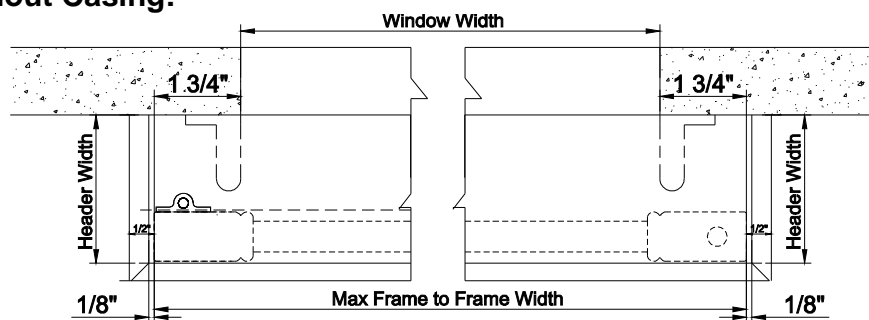
**Mounting Options:** Outside Mount only

## Side View



## Top View

**Without Casing:**



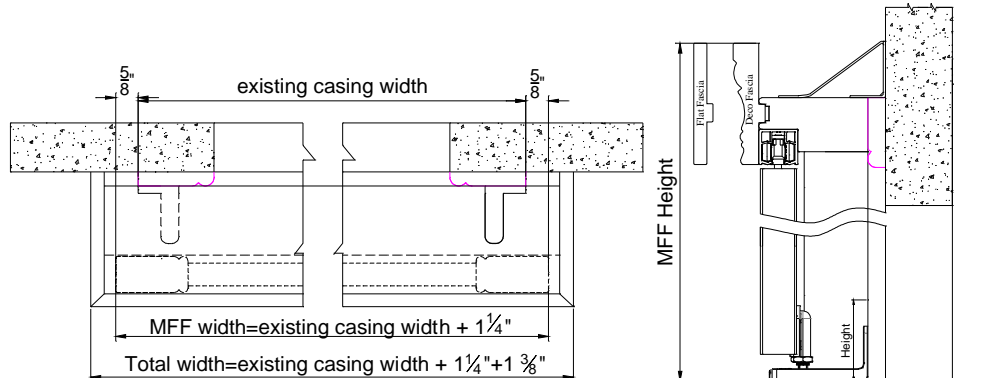
Note:

- ◇ 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.

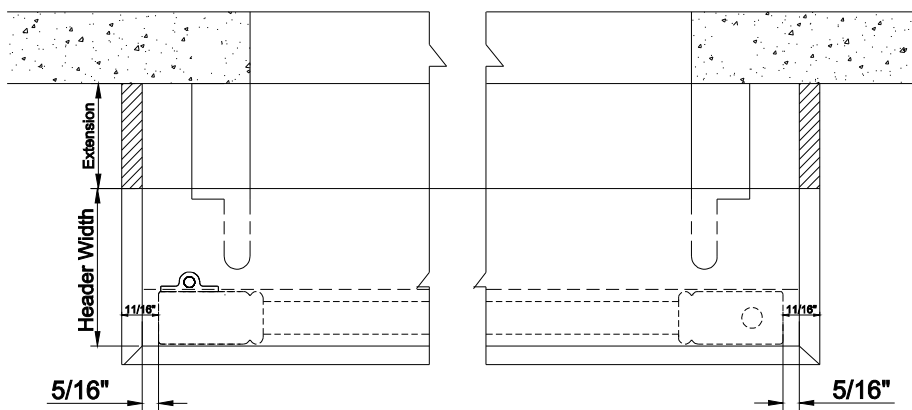


# Woodlore® Shutters

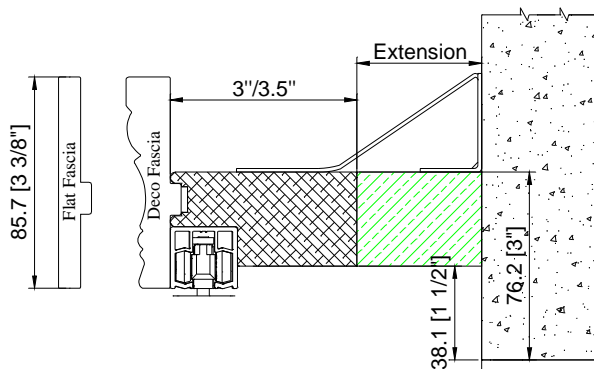
## With Existing Casing:



- ✧ 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.

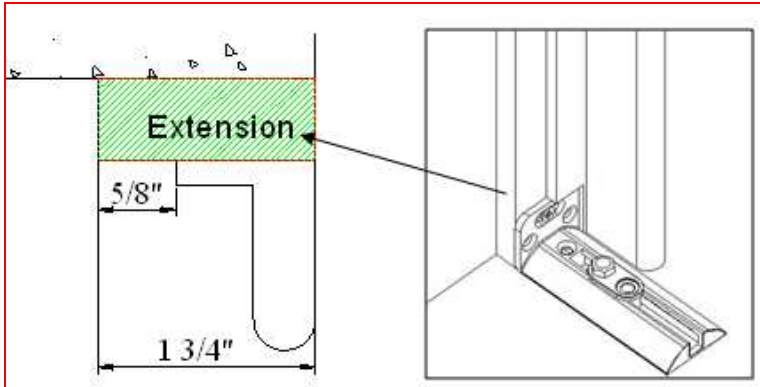


- ✧ The extension will be pre-attached.

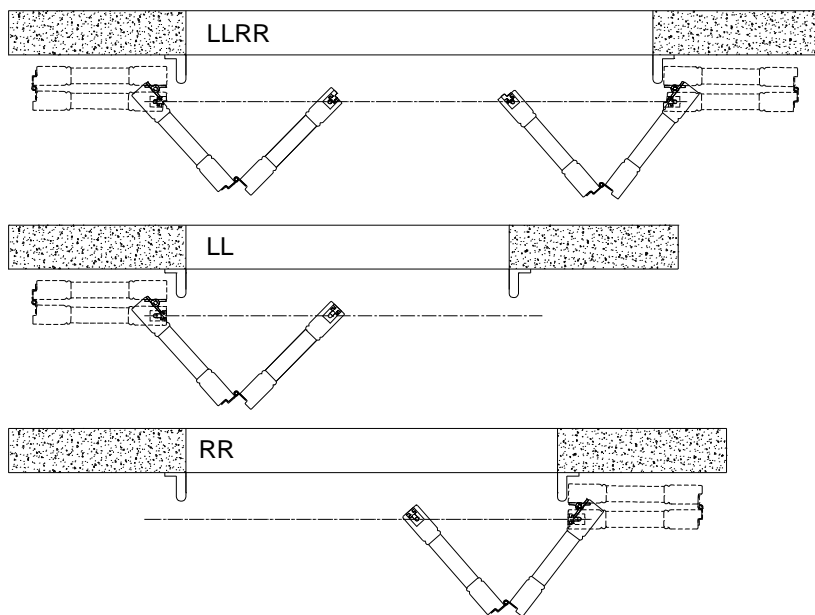


# Woodlore® Shutters

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.**



## Notes:

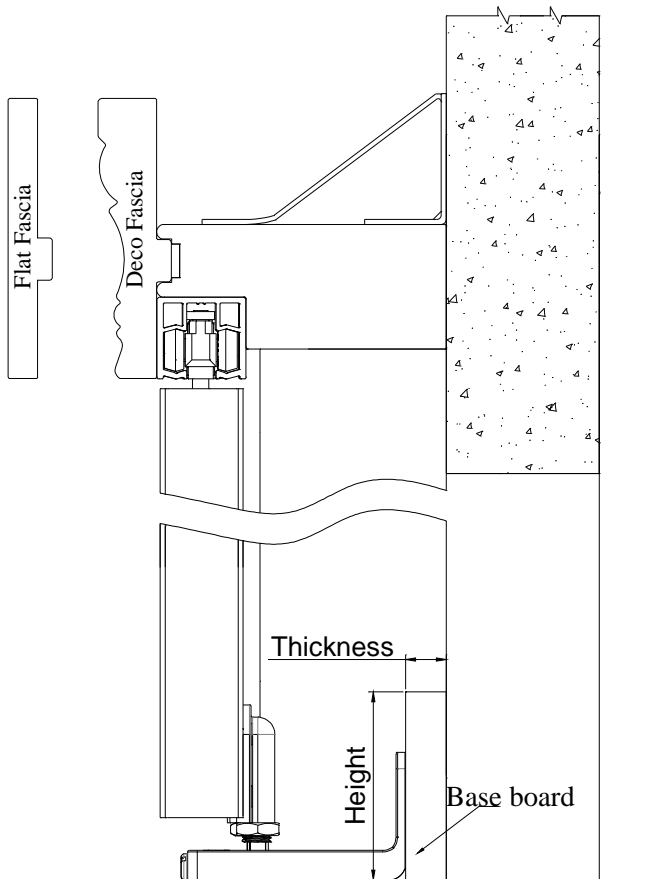
If there is no baseboard to the wall, 3" header can be used.

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".

# Woodlore® Shutters

Please see the drawing below:



## 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 predrilled screw holes

## Bi-fold 90

### Guidelines and Specs:

<u>Description</u>	<u>Minimum</u>	<u>Maximum</u>
Single-Panel Width (Bi-fold Track)	6"	24"
Single-Panel Width (Multifold track up to 4 panels)	N/A	N/A
Single-Panel Height	10"	120"

#### 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

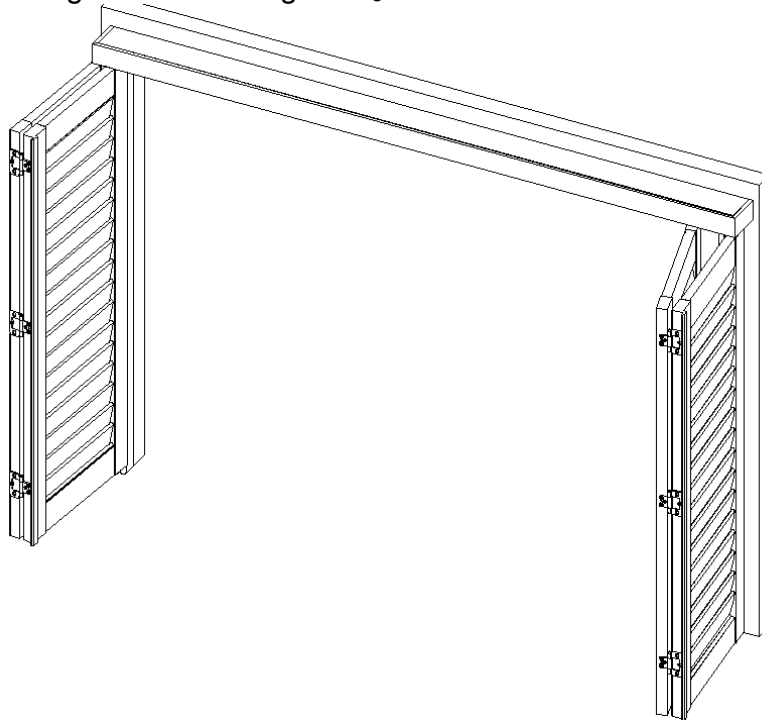
Max frame-to-frame width: window width - 1/8"

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

#### Inside Mount

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

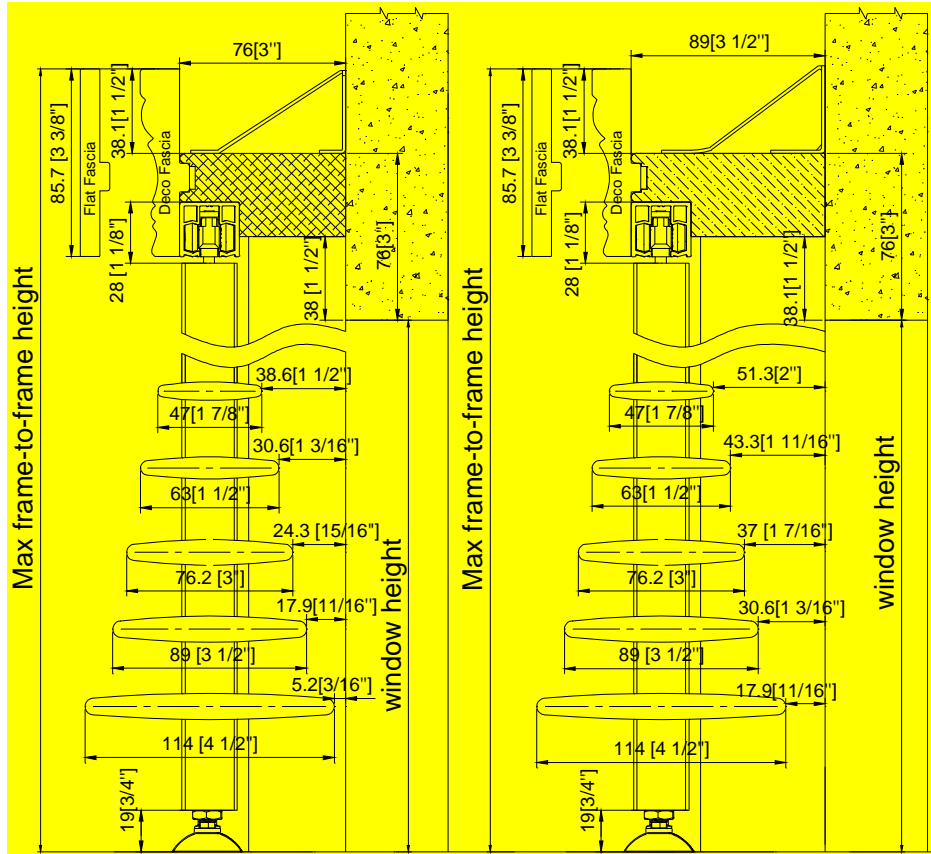
Max frame-to-frame height: window height - 1/8"



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

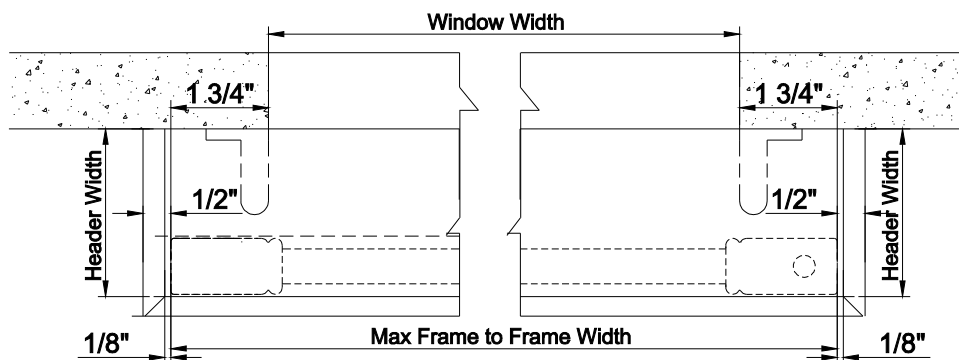
## Mounting Options: Outside Mount

### Side View



### Top View

#### Without Casing:

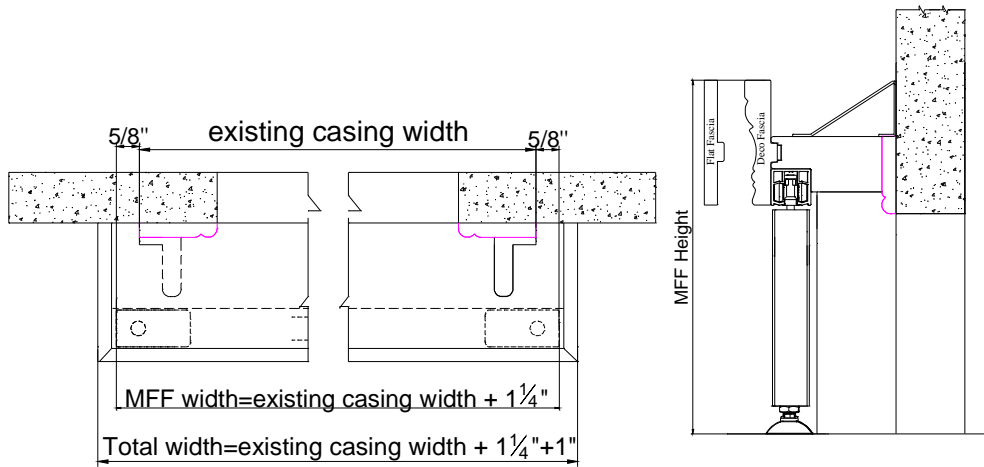


Note:

- ◇ 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.

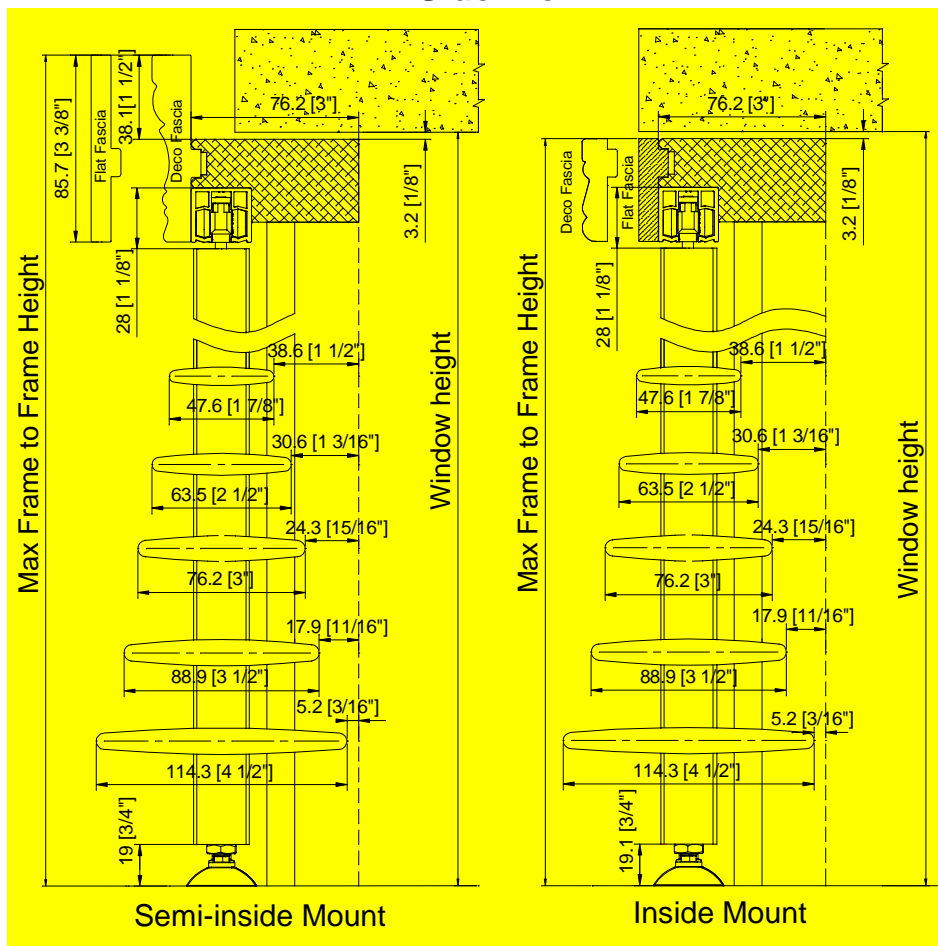
# Woodlore® Shutters

## With Existing Casing:



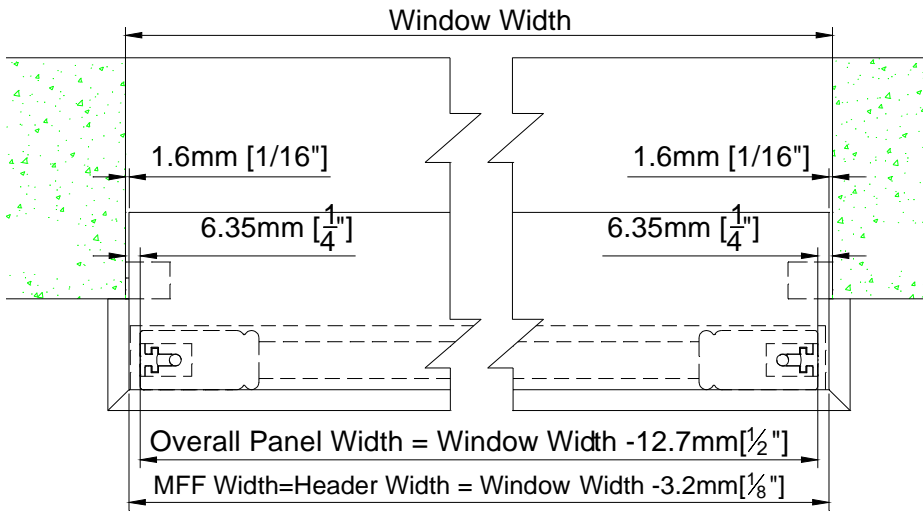
## Semi-Inside/Inside Mount

### Side View

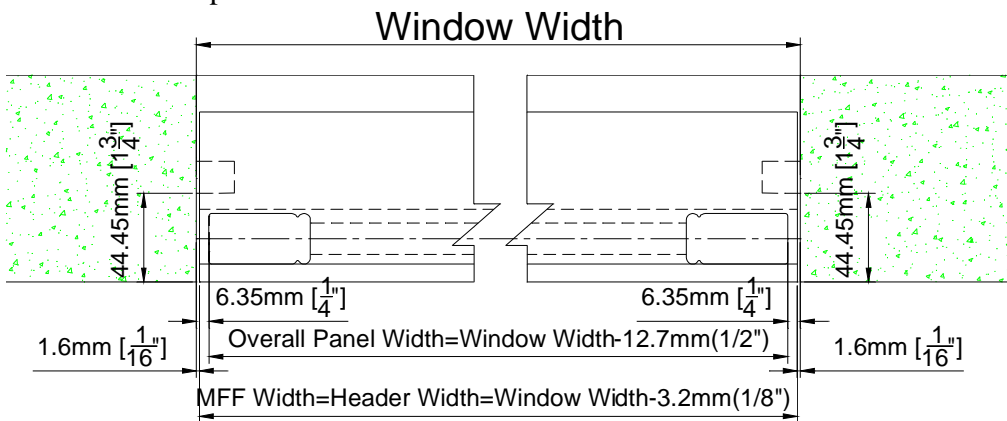


# Woodlore® Shutters

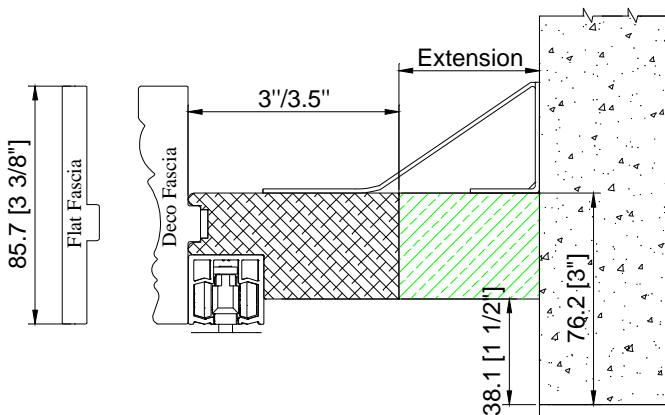
Semi-Inside Mount Top View



Inside Mount Top View



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

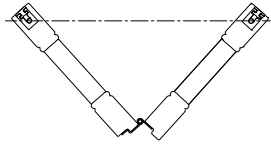




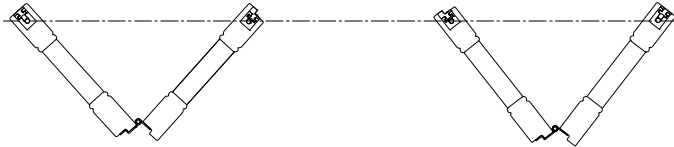
# Woodlore® Shutters

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

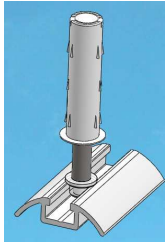
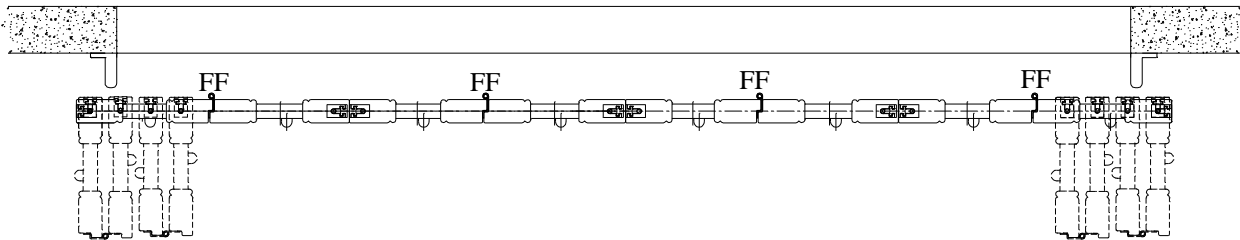
LL or RR



LLRR



## 90° Floating Panels

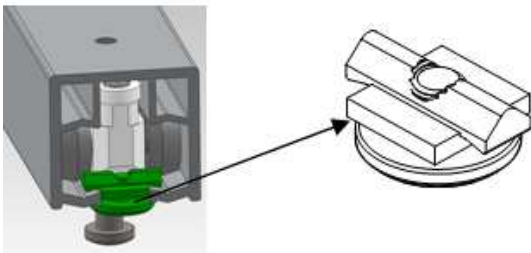


- Two panels can be hinged together, fold and slide to either direction
- Application comes with wheel carrier, spring loaded guide and floor track
- Can be used on large window

### Note:

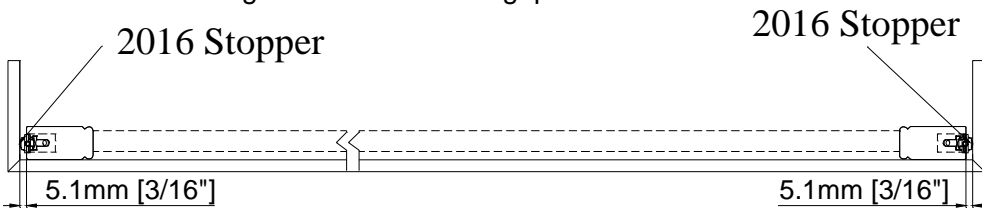
1. For 90° Floating Panels outside mount/semi-inside mount without side boards but with fascia return, the 2016 Stopper will be supplied by default. The gap between the fascia return and the panel is 5mm each side. The 2016 stopper can also be used in the center or any position of the top track as an option.

### 2016 Stopper



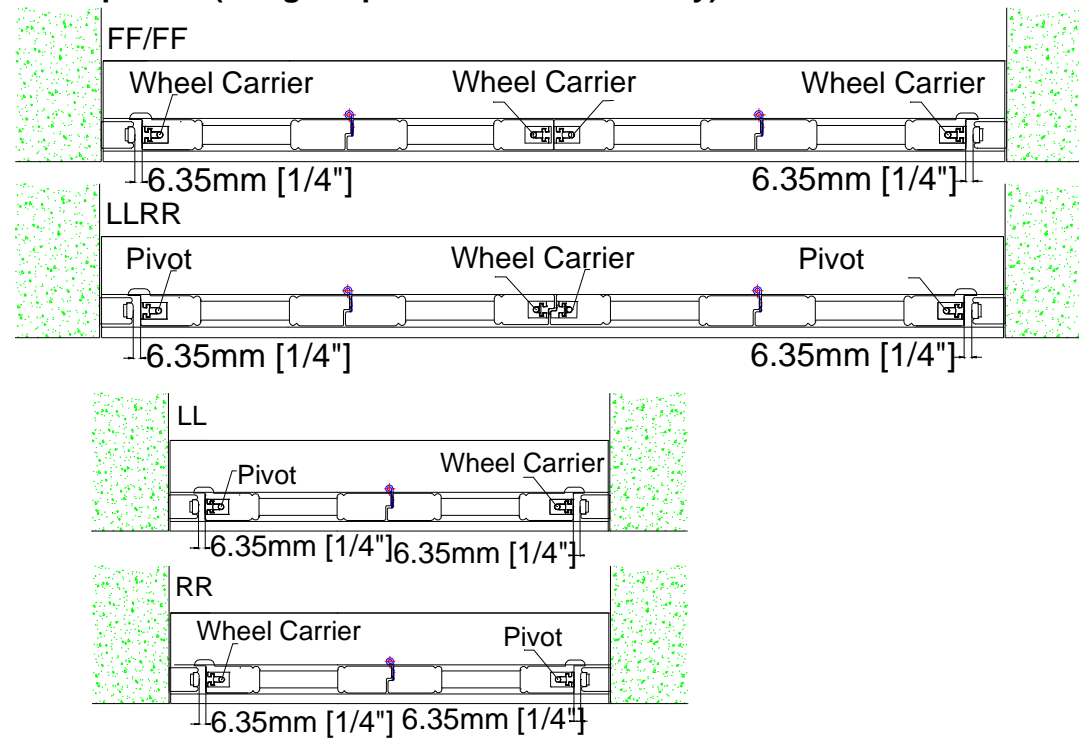
# Woodlore® Shutters

Please see drawing below to show the gap.

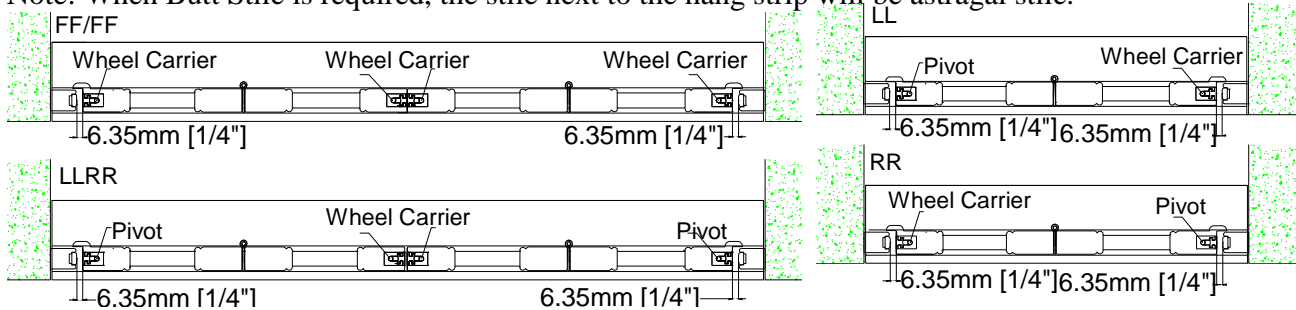


2. When rabbet stile required, the meeting stile of unhinged stile will be butt stile by default.

## Optional (Hang Strip for Inside Mount Only)



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



## 90 degree Bi Fold Track Shutters Framing Materials

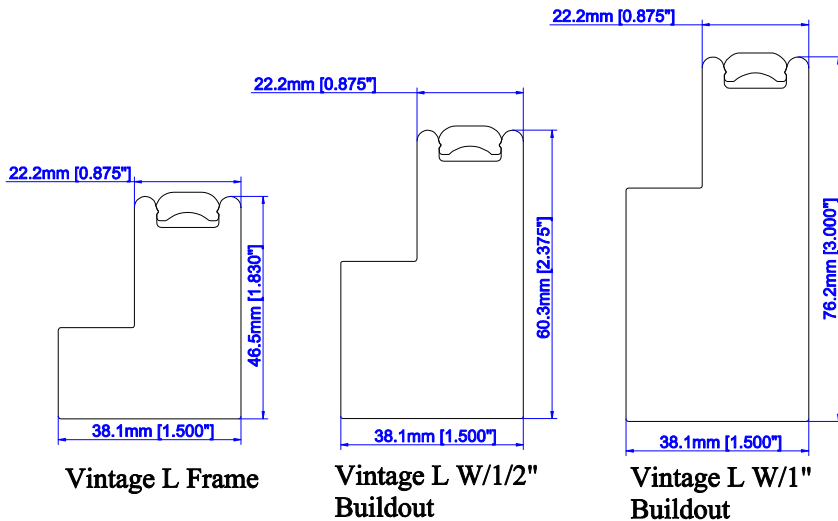
Type		Header Dimension	Top Fascia Dimension	Light Block Strip Dimension	Hang Strip Dimension
Header & Top Fascia & Light Block Strip	OM	3"	3 3/8"	1 9/16"	
		3 1/2"		2 1/16"	
	Semi-IM	3"	1 7/8"	5/8"x3/4"	1.08"x0.875"
	IM	3"		5/8"x3/4"	

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

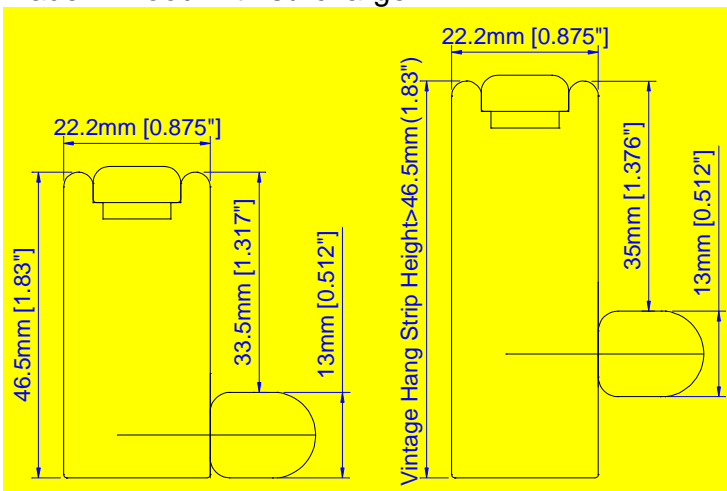
## Frame Hinged Bifold

Available Stile: Rabbet Stile Only

Available Frame type



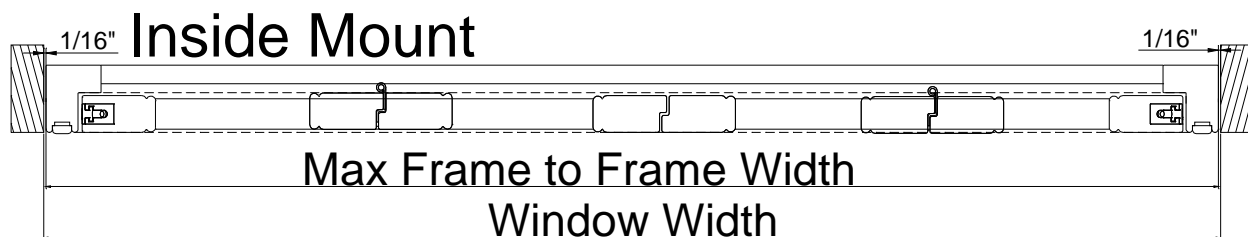
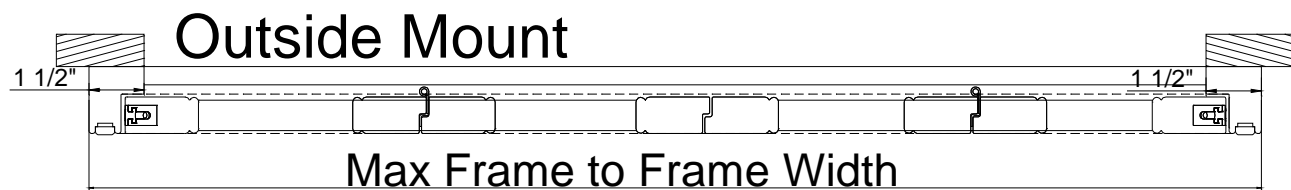
**Vintage Hang Strip with 13mm light block:** For single direction shutter with even panel qty, the frame on the unhinged side will be Vintage Hang Strip with 13mm [0.512"] light block, the height of the Vintage Hang Strip will match with that of the hinged side frame. The Vintage Hang Strip will be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



# Woodlore® Shutters

## Top View

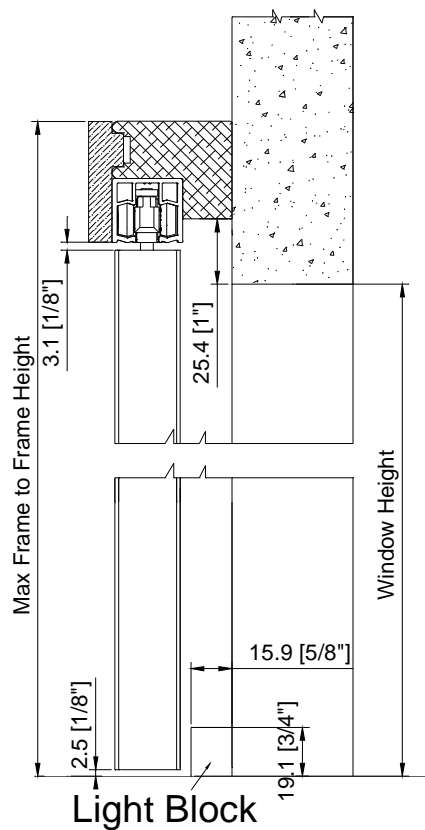
Hinged at Left or Right with wheel assembly at top;



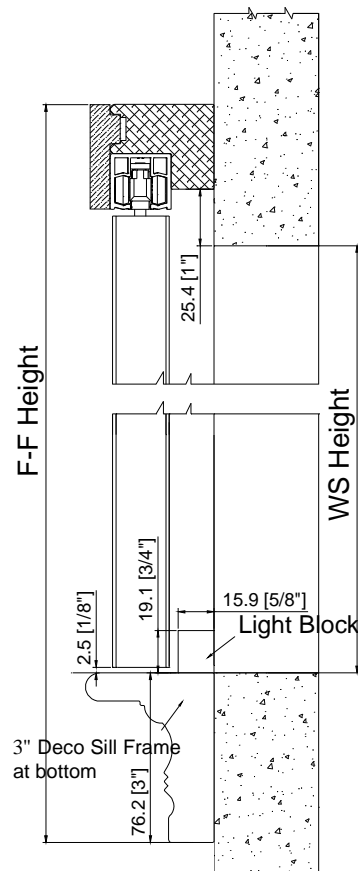
## Side View

Outside Mount

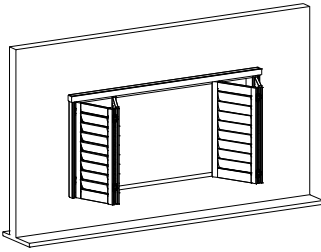
3-Sides + bottom light block



3-Sides + 3\" Deco Sill Frame

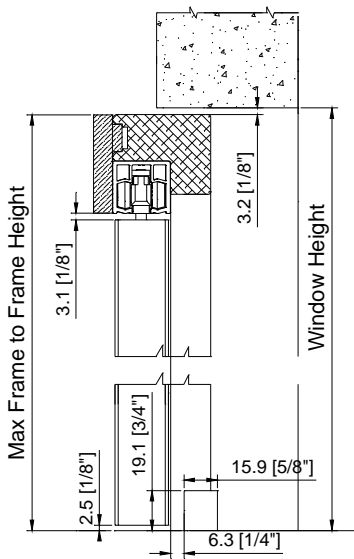


# Woodlore® Shutters

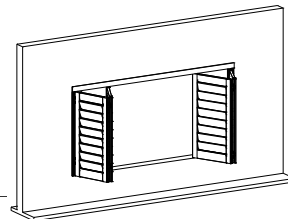
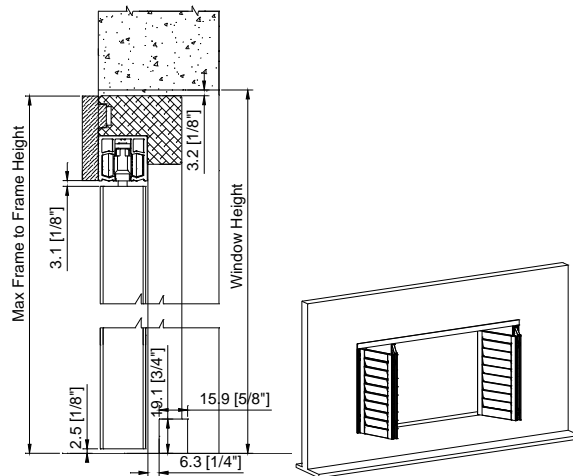


Note: For OM Frame Hinged Bifold shutter not to use as a door, if there is no existing sill at the bottom of the window opening, it is recommended to have the 3" Deco Sill Frame at the bottom.

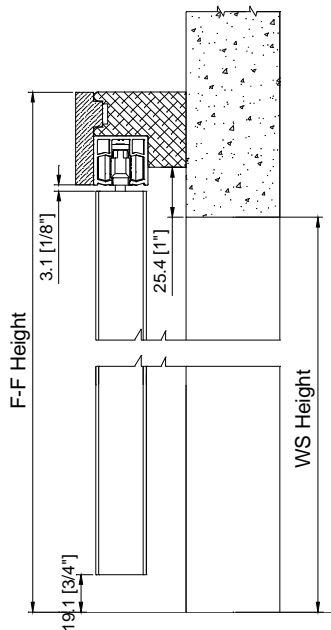
Semi-Inside



Inside Mount

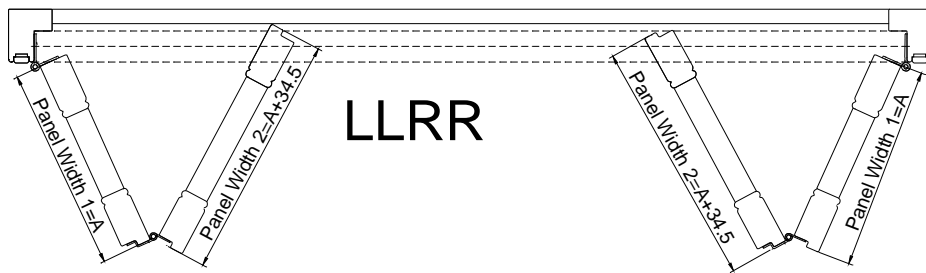
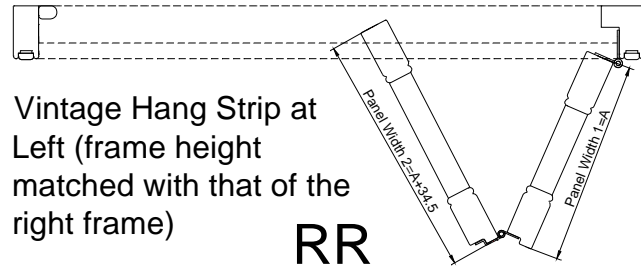
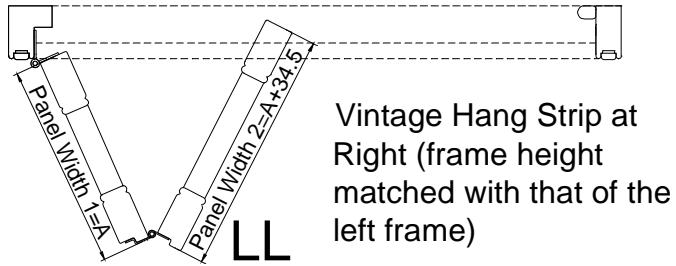


**For frame hinged bifold track shutter used as door, the bottom gap will be 19mm by default. Please specify "Used As Door" on the order form.**



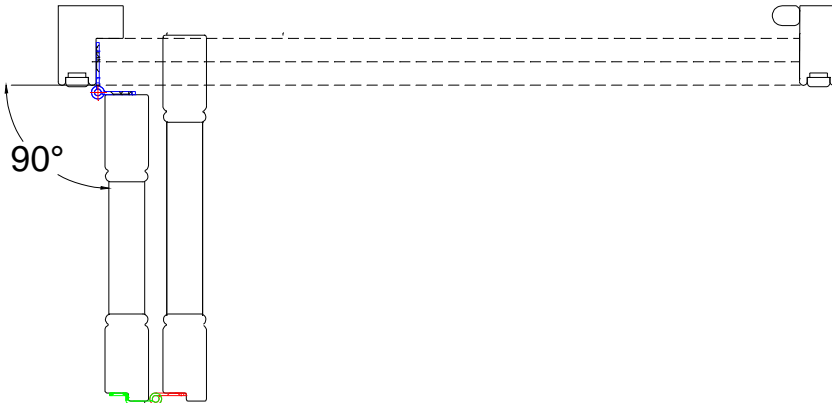
# Woodlore® Shutters

## Panel Configuration (uneven panel width)



### 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

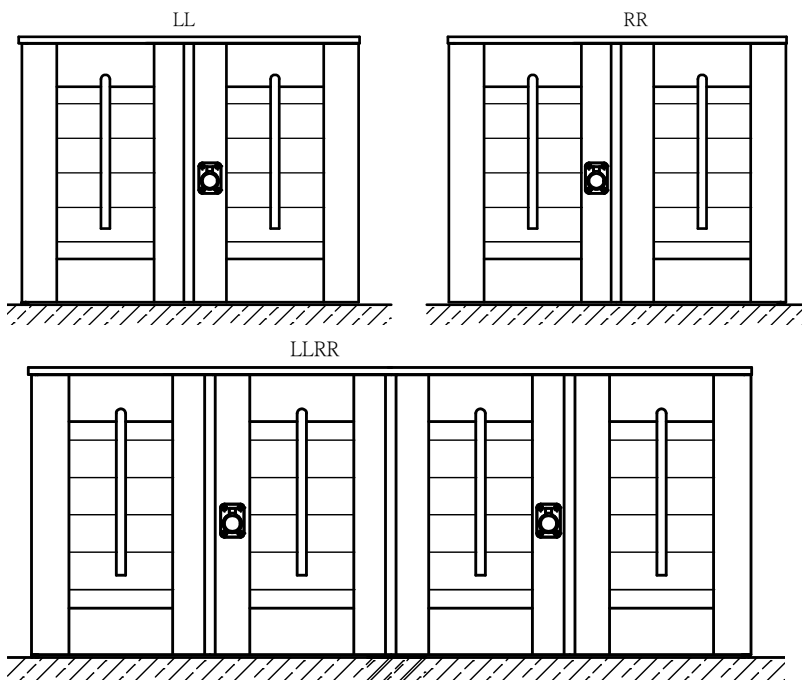
- 1) For top frame, the insert will be replaced by top fascia;
- 2) Top track will be pre-attached to the top frame;
- 3) Frame will be pre-drilled with screw holes same as regular shutters.

**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.

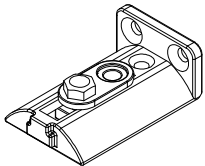
# Woodlore® Shutters

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

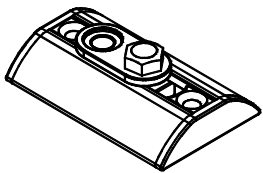


## Bottom Pivot Bracket for 90 degree bifold:

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

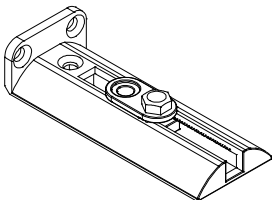


For Inside Mount, Bottom Pivot L Bracket will be supplied as default;



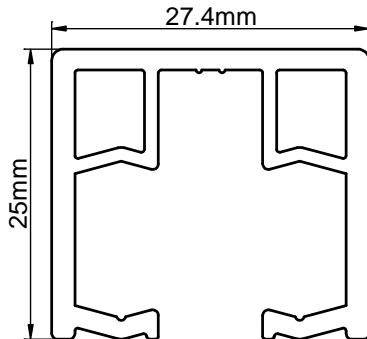
For Semi-Inside or Outside Mount, bottom pivot bracket will be supplied as default.

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

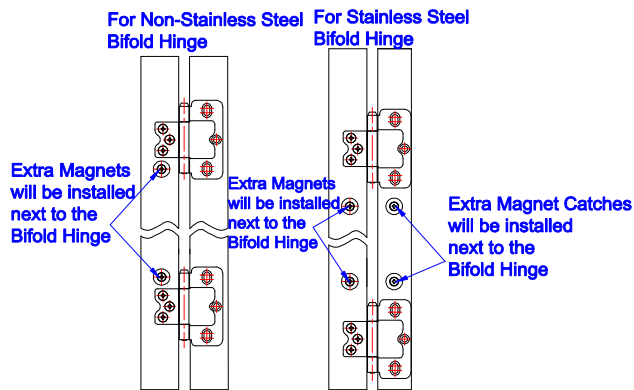


## Track Dimension:

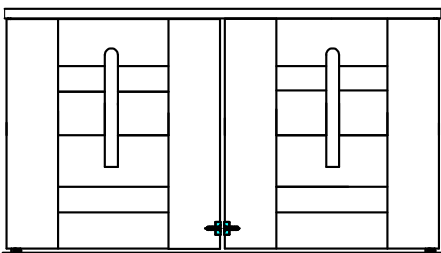
Top Track



**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**



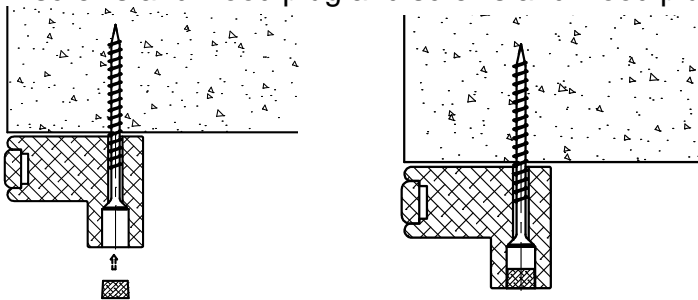


## 90° Bi Fold Track Shutters Hardware Box

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
38.1mm screws for bottom pivot bracket
63.5mm screws for Frame with predrilled 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

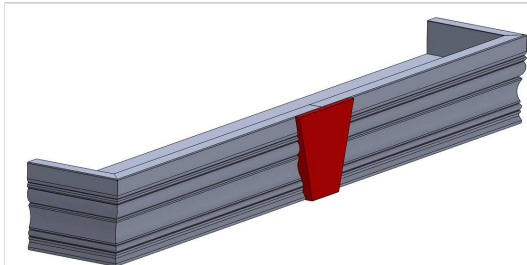


## Keystone for Fascia of the Track Shutter

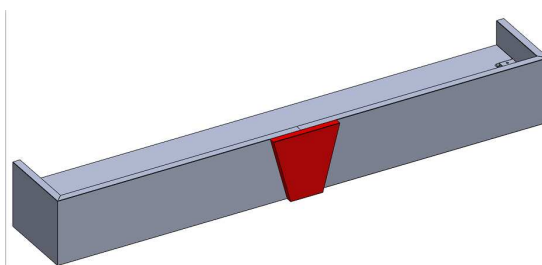
When fascia length exceeds the limitation and needs to split, keystone design fascia will be supplied without surcharge for track shutters.

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

For Deco Fascia:

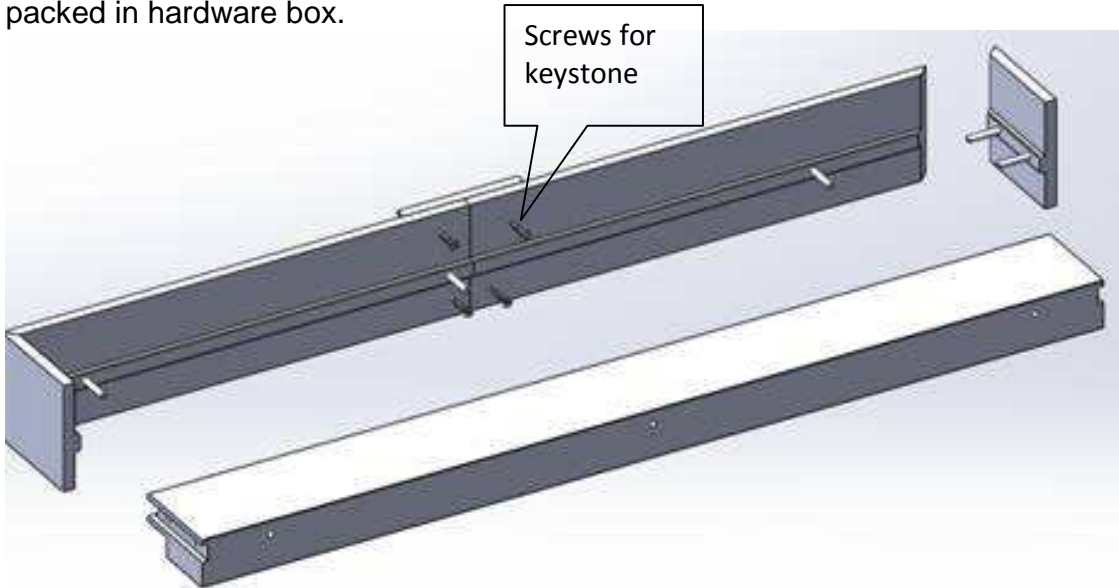


For Flat Fascia:



# *Woodlore® Shutters*

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



# 2016 Track Shutters—Bypass

*Woodlore® Shutters*

## Guidelines and Specs:

<u>Description</u>	<u>Minimum</u>	<u>Maximum</u>	
		1 $\frac{7}{8}$ "	2 $\frac{1}{2}$ "; <b>3"</b> ; 3 $\frac{1}{2}$ "; 4 $\frac{1}{2}$ "
Single-Panel Width (Woodlore)	6"	24"	30"
Single-Panel Height	10"	<b>120"</b>	<b>120"</b>

### Outside Mount

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

Max frame-to-frame height: window height + 4 $\frac{1}{2}$ "

### Semi-Inside Mount

Max frame-to-frame width: window width -  $\frac{1}{8}$ "

Max frame-to-frame height: window height + 1  $\frac{3}{8}$ "

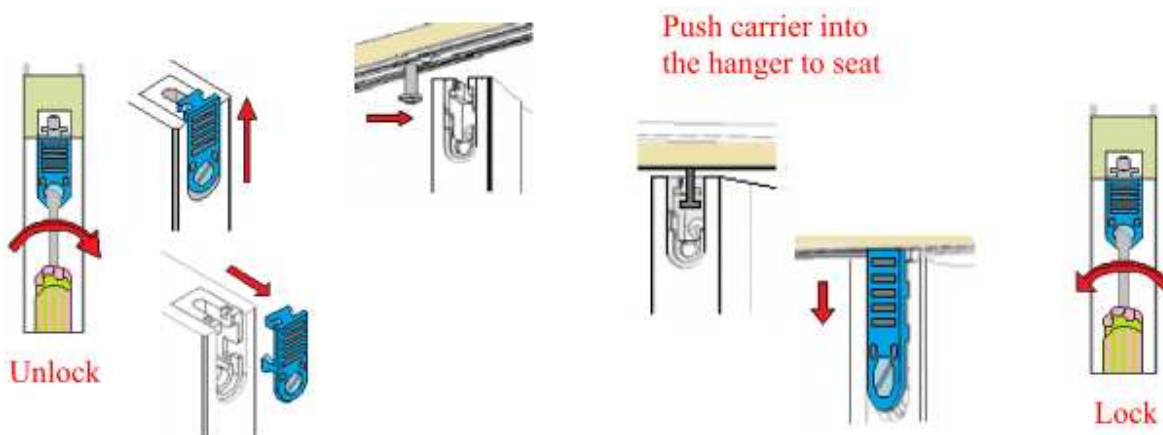
### Inside Mount

Max frame-to-frame width: window width -  $\frac{1}{8}$ "

Max frame-to-frame height: window height -  $\frac{1}{8}$ "

## **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

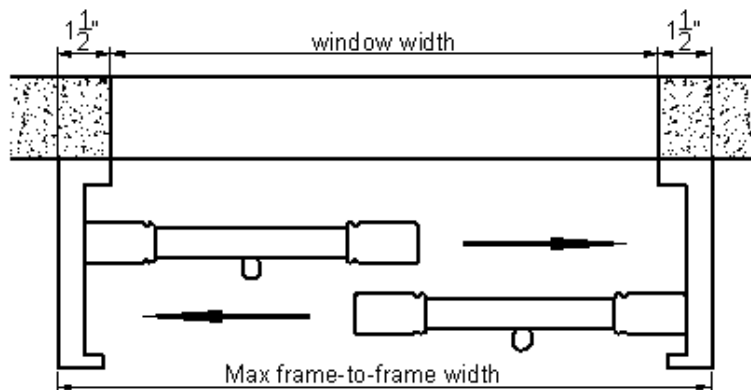


# 2016 Track Shutters—Bypass

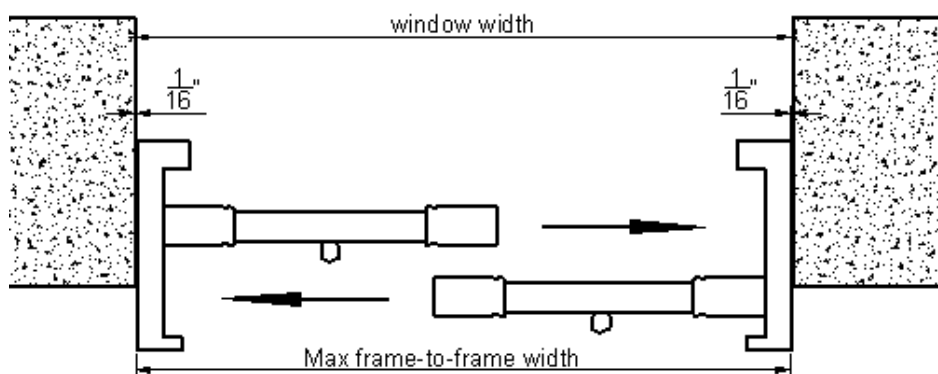
*Woodlore® Shutters*

## Top View

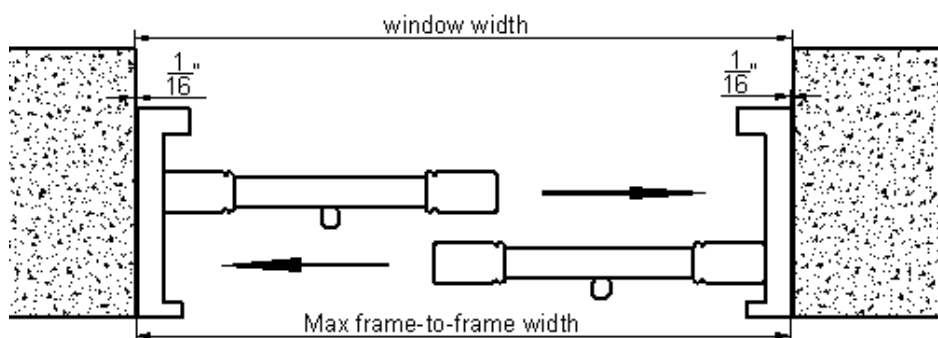
### Outside Mount



### Semi-Inside Mount



### Inside Mount

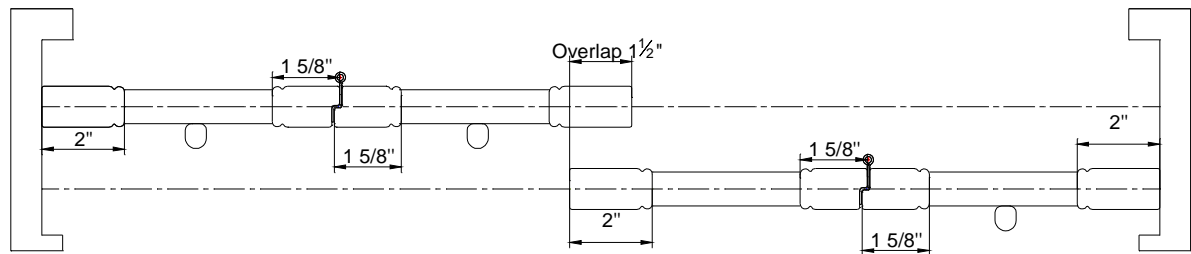


# 2016 Track Shutters—Bypass

*Woodlore® Shutters*

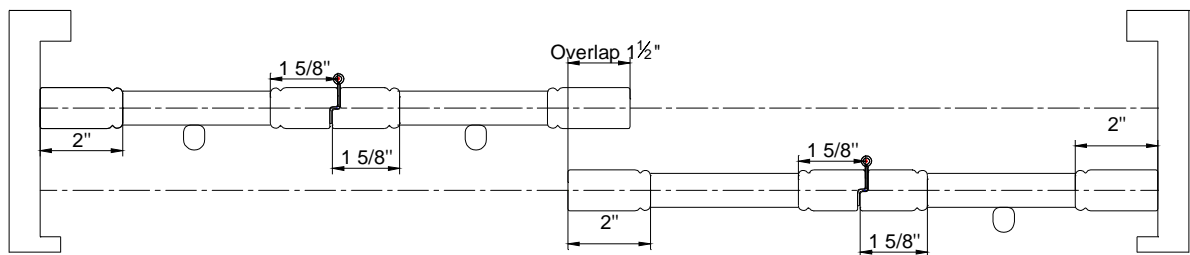
## Top View

Combi - joined Panels (optional)

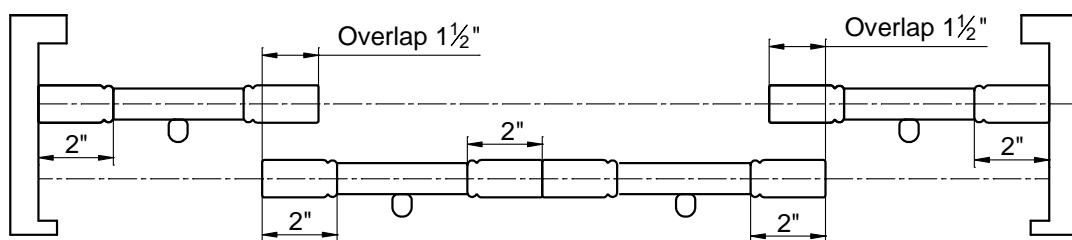


For shutters with 4 or more panels, please select “side open” or “center open”

### Side Open



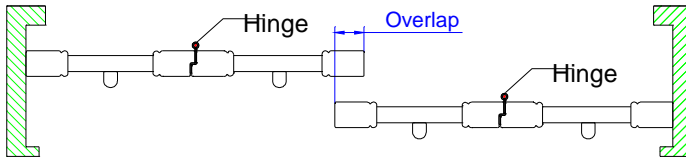
### Center Open



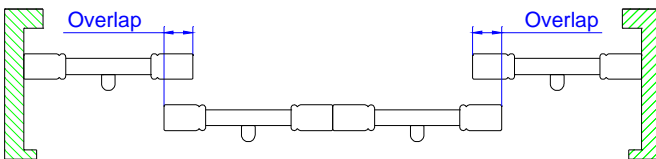
## 2016 Track Shutters—Bypass

*Woodlore® Shutters*

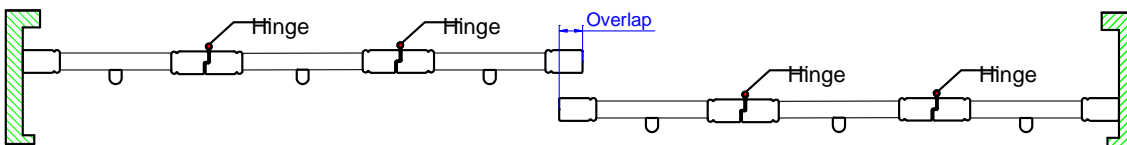
### 4 panels side open w/Rabbit stile



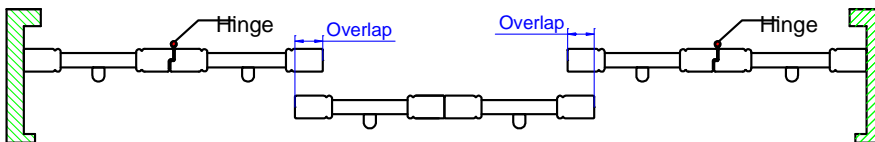
### 4 panels center open w/Rabbit stile



### 6 panels side open w/Rabbit stile



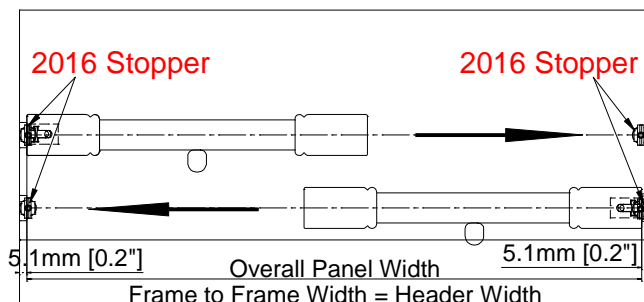
### 6 panels center open w/Rabbit stile



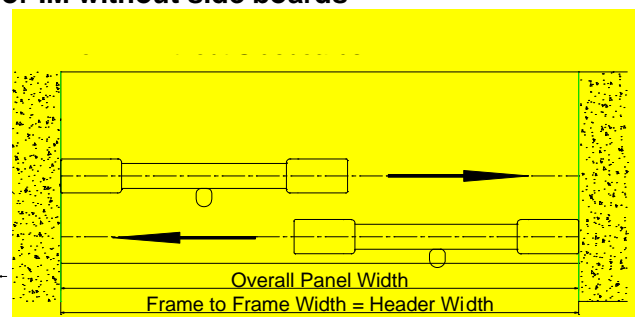
**Stile:** Only 2", 2 1/4" rabbit stile is available,  
1 5/8" rabbit stile only used for combi-joined panels.  
Center stile is not available.

### Size Definition

#### For Semi-Inside/OM without side boards



#### For IM without side boards



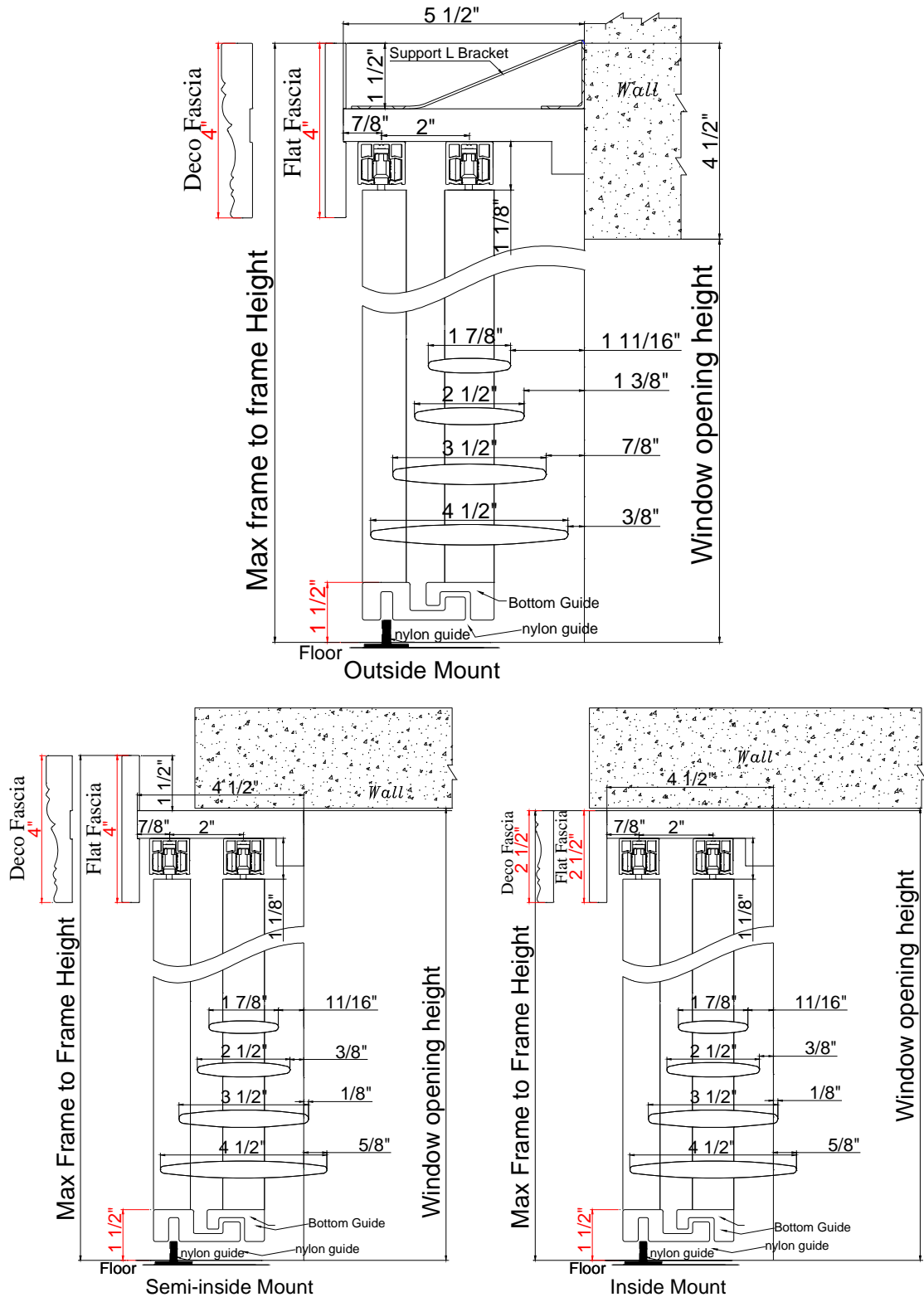
Note: For Semi-Inside/OM bypass without side boards but with fascia return, 2016 Stopper will be supplied.

# 2016 Track Shutters—Bypass

*Woodlore® Shutters*

## Mounting Options (Closed Bypass)

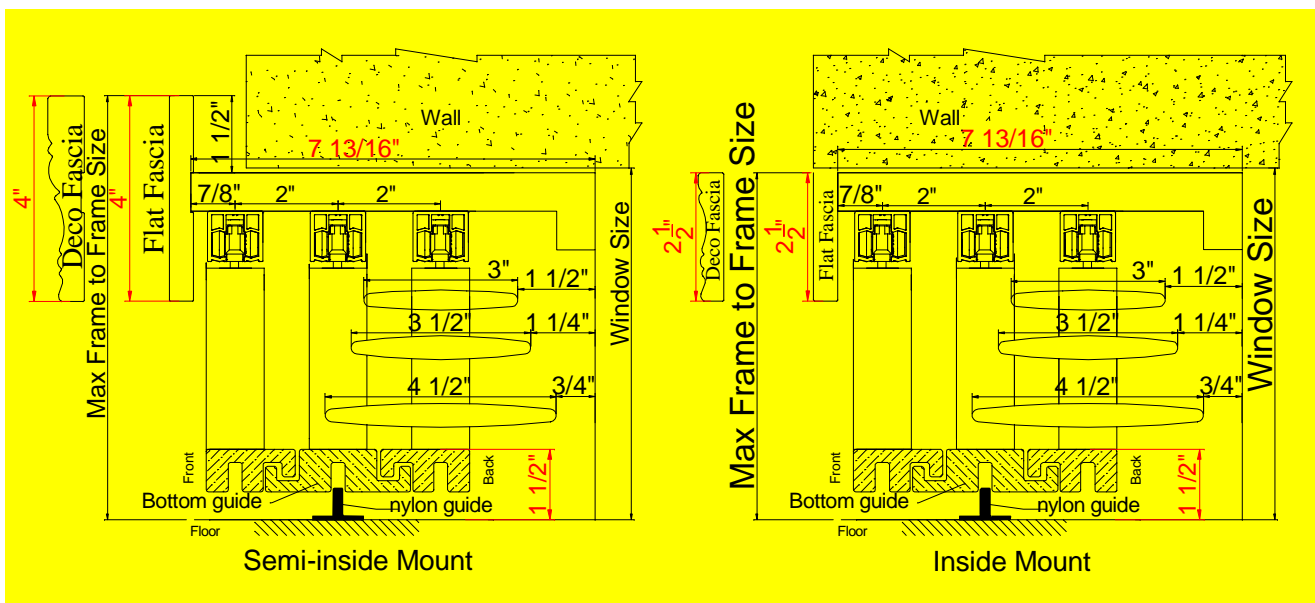
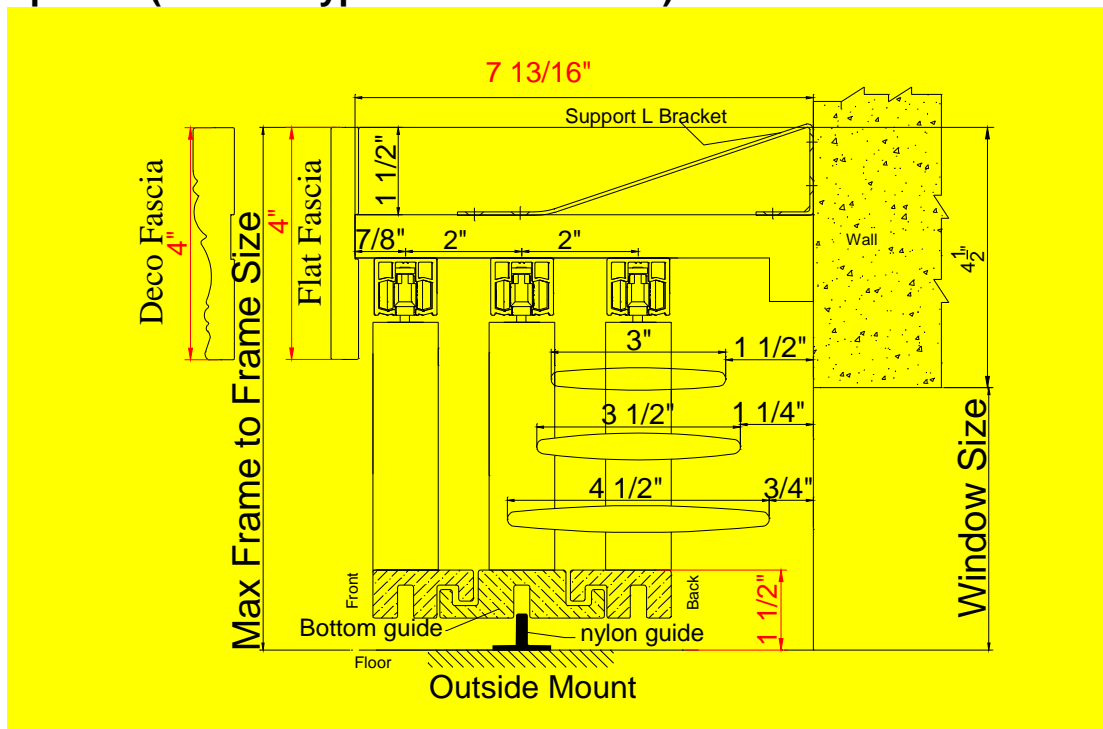
### Side View



# 2016 Track Shutters—Bypass

*Woodlore® Shutters*

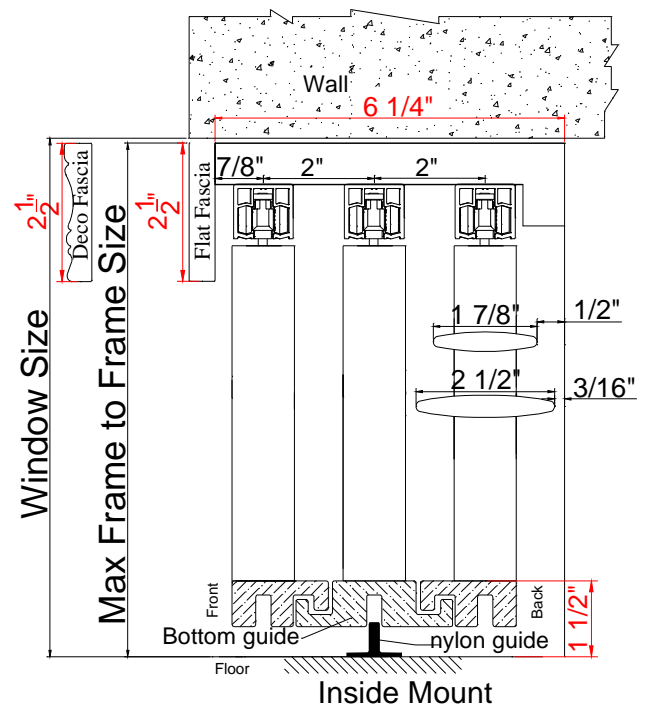
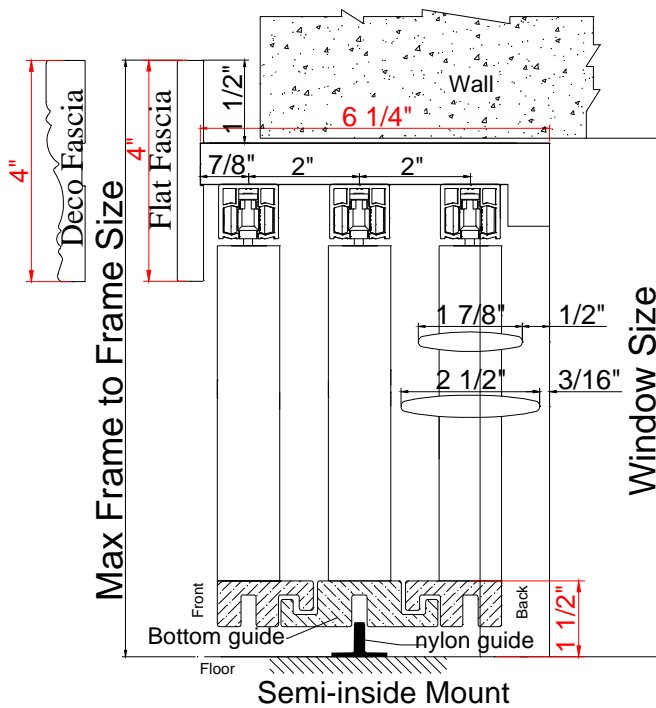
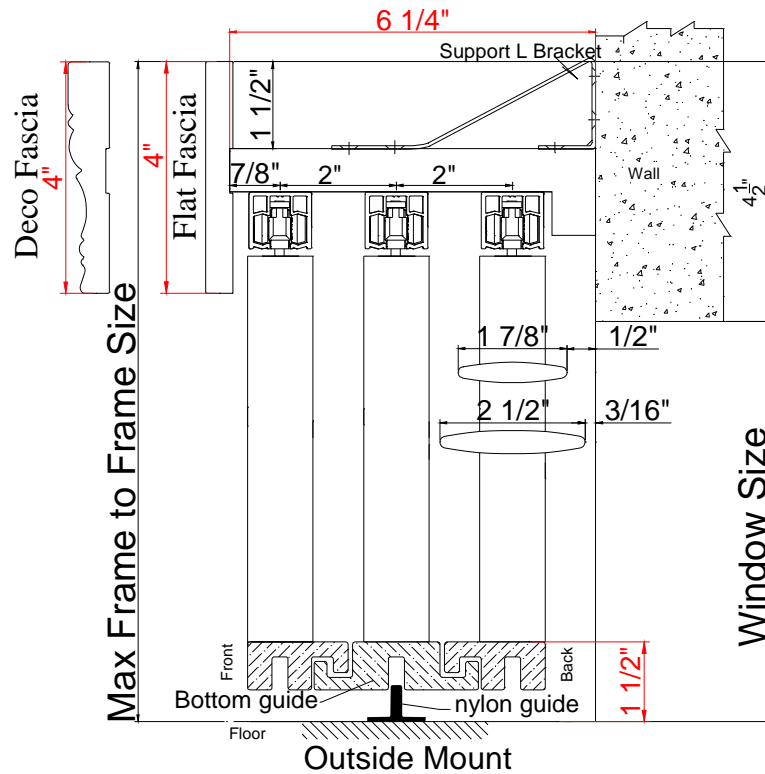
## Mounting Options (Closed Bypass with 3 Tracks):





# 2016 Track Shutters—Bypass

*Woodlore® Shutters*



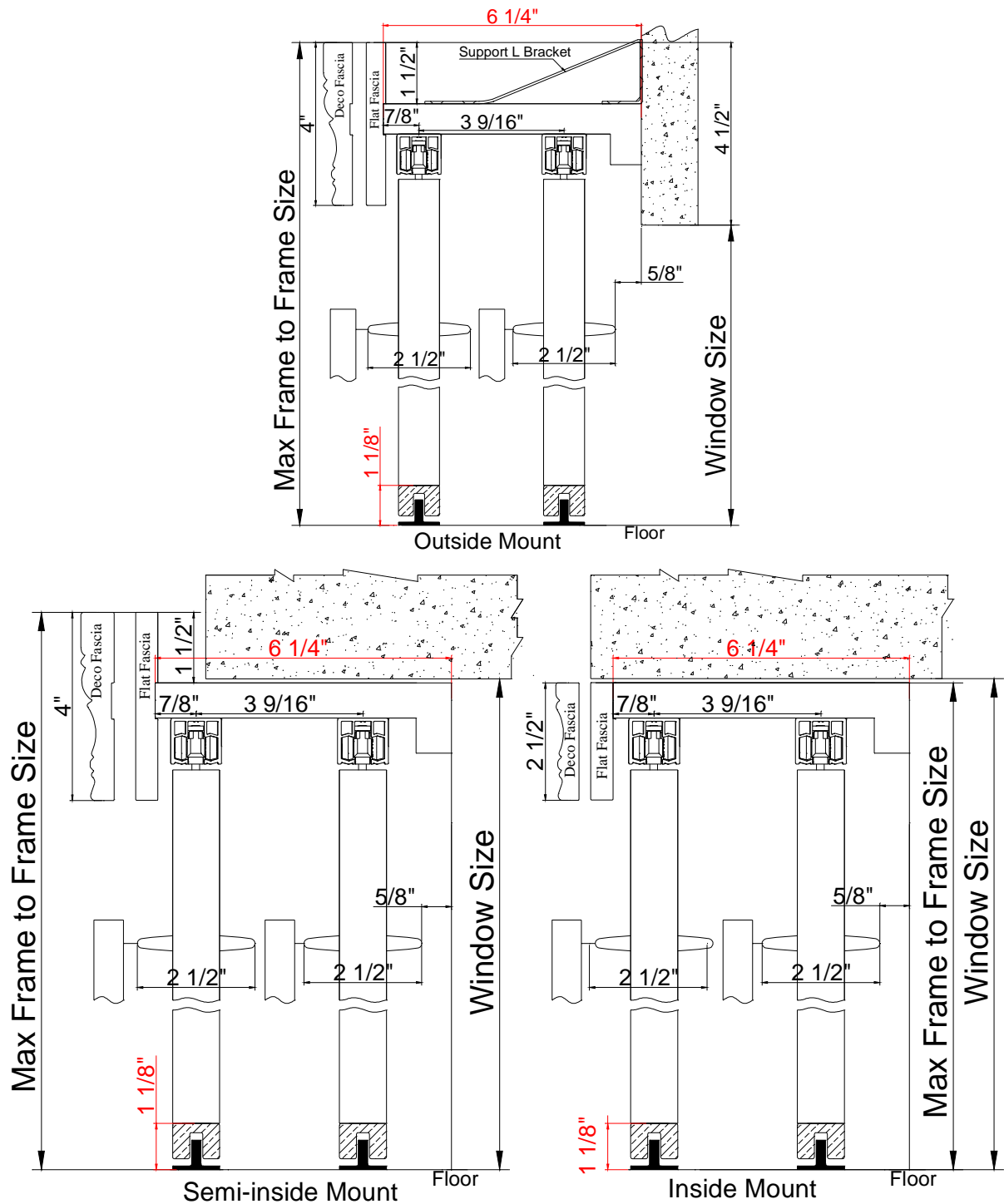
## 2016 Track Shutters—Bypass

*Woodlore® Shutters*

### Mounting Options (Opened Bypass)

Only available in 2 ½", 3" and 3 ½" louver sizes

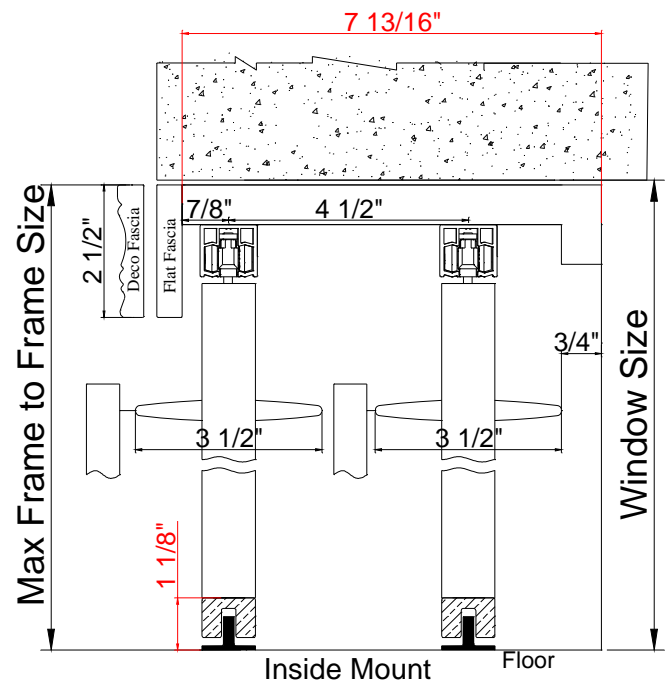
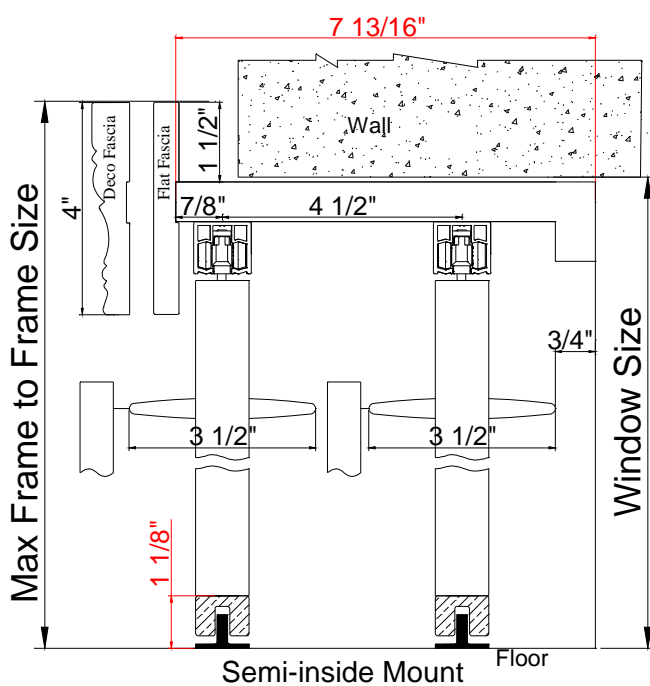
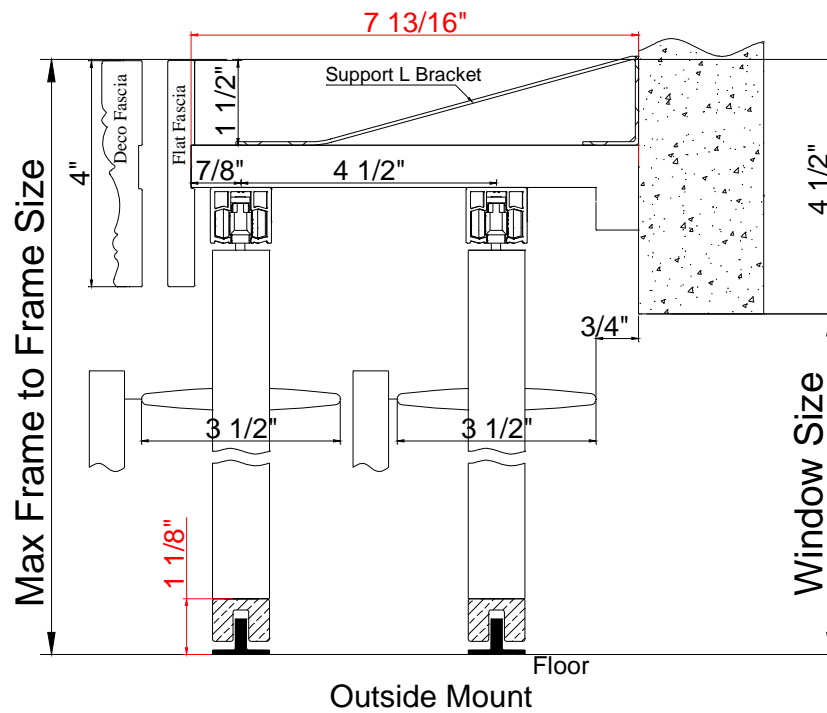
#### 2 ½" Louver



# 2016 Track Shutters—Bypass

*Woodlore® Shutters*

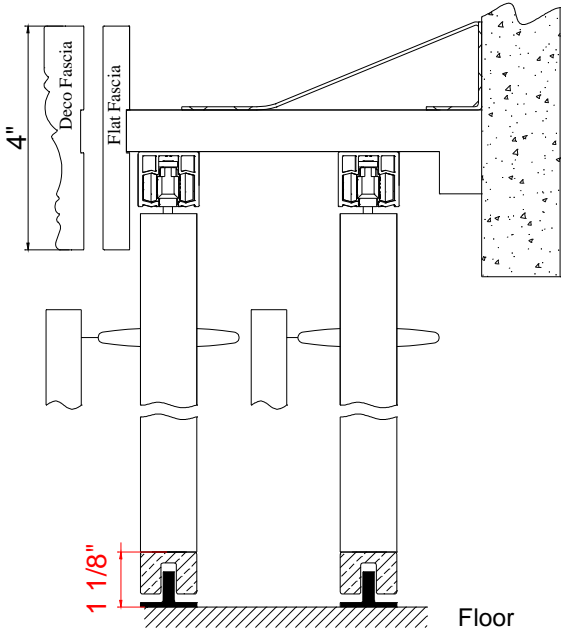
**3" / 3 1/2" Louver**



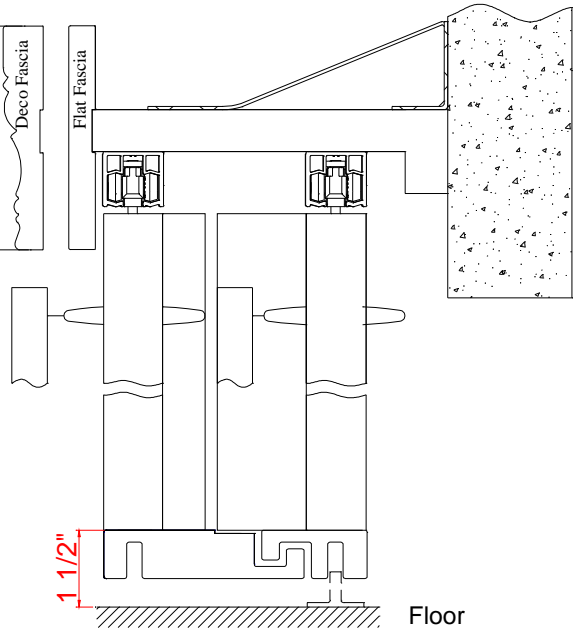
# 2016 Track Shutters—Bypass

*Woodlore® Shutters*

Open By Pass: has 2 kinds of bottom guide

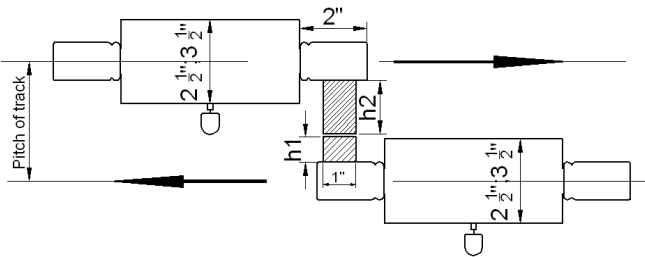


Default Bottom Guide

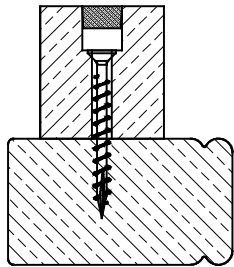


Optional Interlocking Bottom Guide

## 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"
3" / 3.5"	4 1/2"	3 5/8"	4 1/2"	4 1/2"

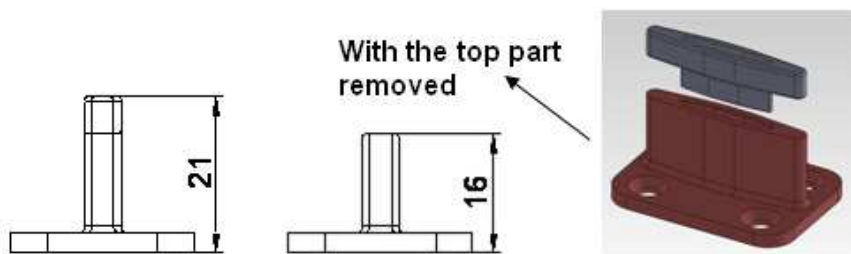
## 2016 Track Shutters—Bypass

*Woodlore® Shutters*

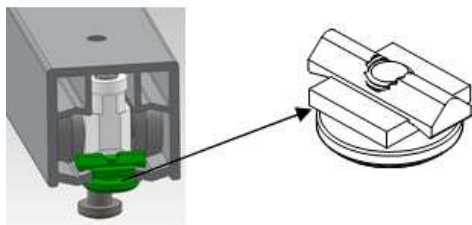
Light block thickness for panel

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"	1 9/16"
	h2	1 9/16"	3/4"	1 9/16"	3/4"
3" / 3.5"	h1	1 3/16"	1 3/16"	1 3/16"	1 15/16"
	h2	1 15/16"	1 3/16"	1 15/16"	1 3/16"

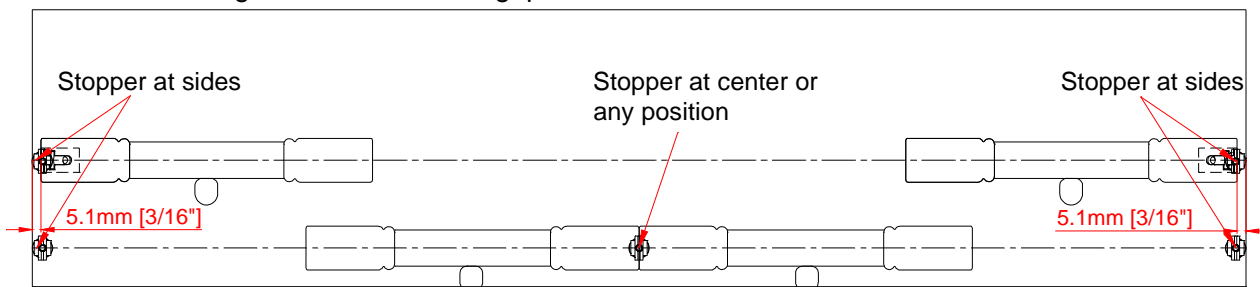
**Nylon Guide:** The nylon guide is composed by 2 parts and will supplied as a whole set by default (bottom part 16mm and top part 5mm), please remove the top part if necessary.



### The 2016 Stopper



For outside mount/semi-inside mount bypass without side boards but with fascia returns, the 2016 Stopper will be supplied by default. The gap between the fascia return 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.



# 2016 Track Shutters—Bypass



## Track Shutters Framing Materials

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

## 2016 Track Shutters—Bypass

*Woodlore® Shutters*

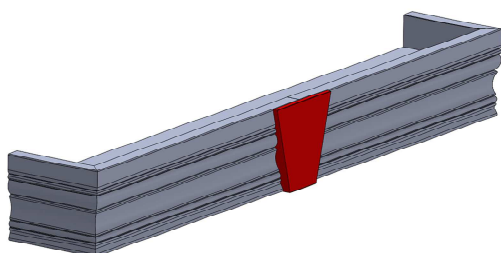
Hardware Box
Part
Wrench
Nylon Guide
$\frac{3}{4}$ " screws for Nylon Guide
Support L Bracket (based on the length of header)
$2 \frac{1}{2}$ " screws for support L bracket
$\frac{3}{4}$ " screws for support L bracket

### Keystone for Fascia of the Track Shutter

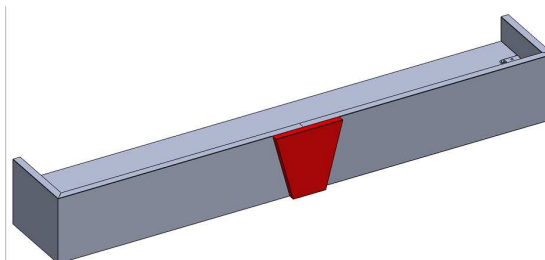
When fascia length exceeds the limitation and needs to split, keystone design fascia will be supplied without surcharge for track shutters.

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

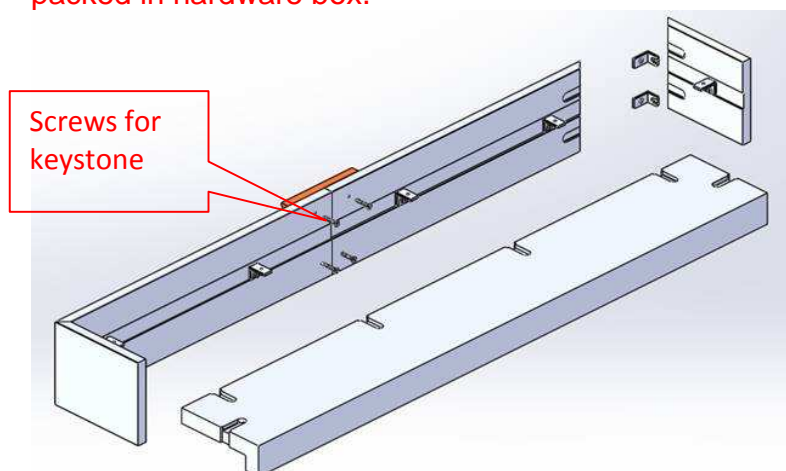
For Deco Fascia:



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.



## 2016 Track Shutters—Bypass

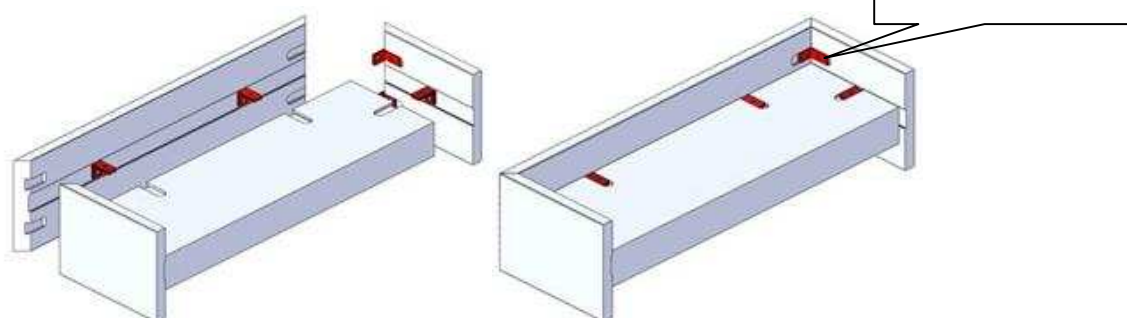
*Woodlore® Shutters*

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

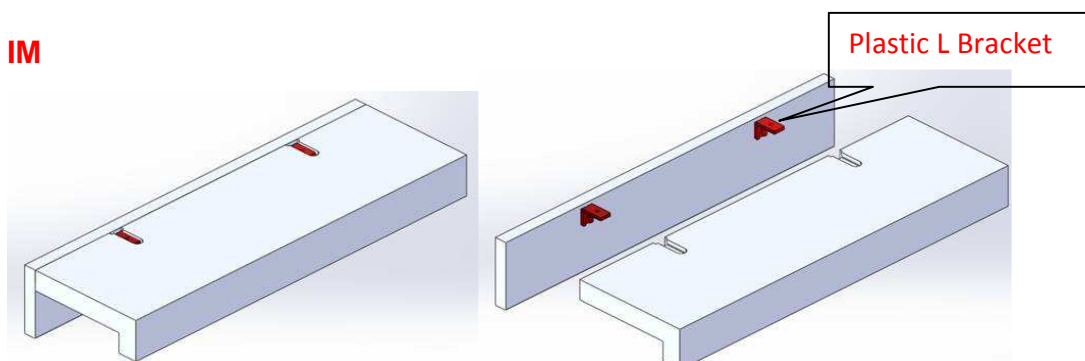


L Bracket will be used to connect the header, fascia and fascia returns for Bypass shutter. This applies for Inside Mount, Semi-Inside Mount & Outside Mount.

#### OM & Semi-IM



#### IM



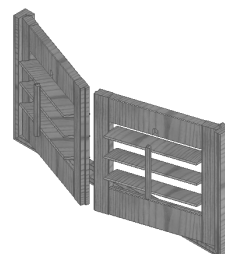
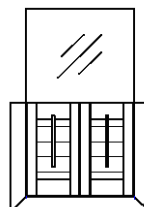


# Woodlore® Shutters

## Special Options

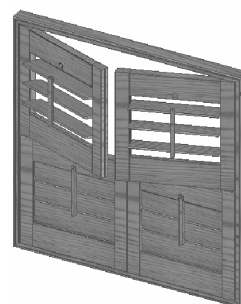
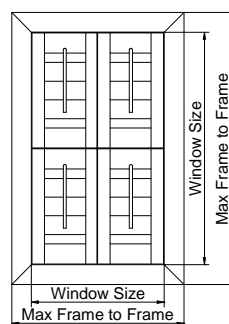
### Café Shutters\*

- 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.

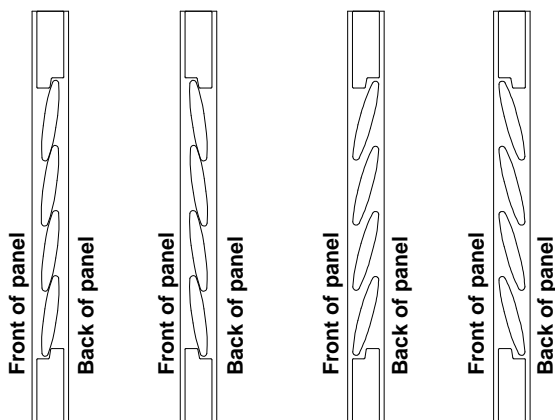
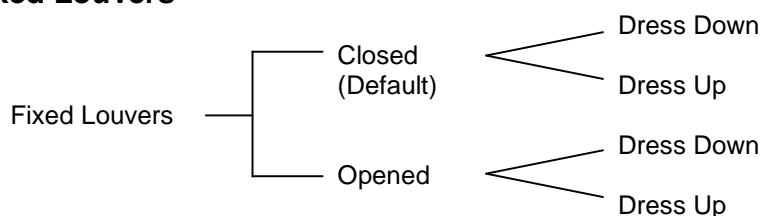


### Double-Hung Shutters\*

- For total number of panels, please include panels in both rows.
- Bifold panel is not available under this option.
- 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



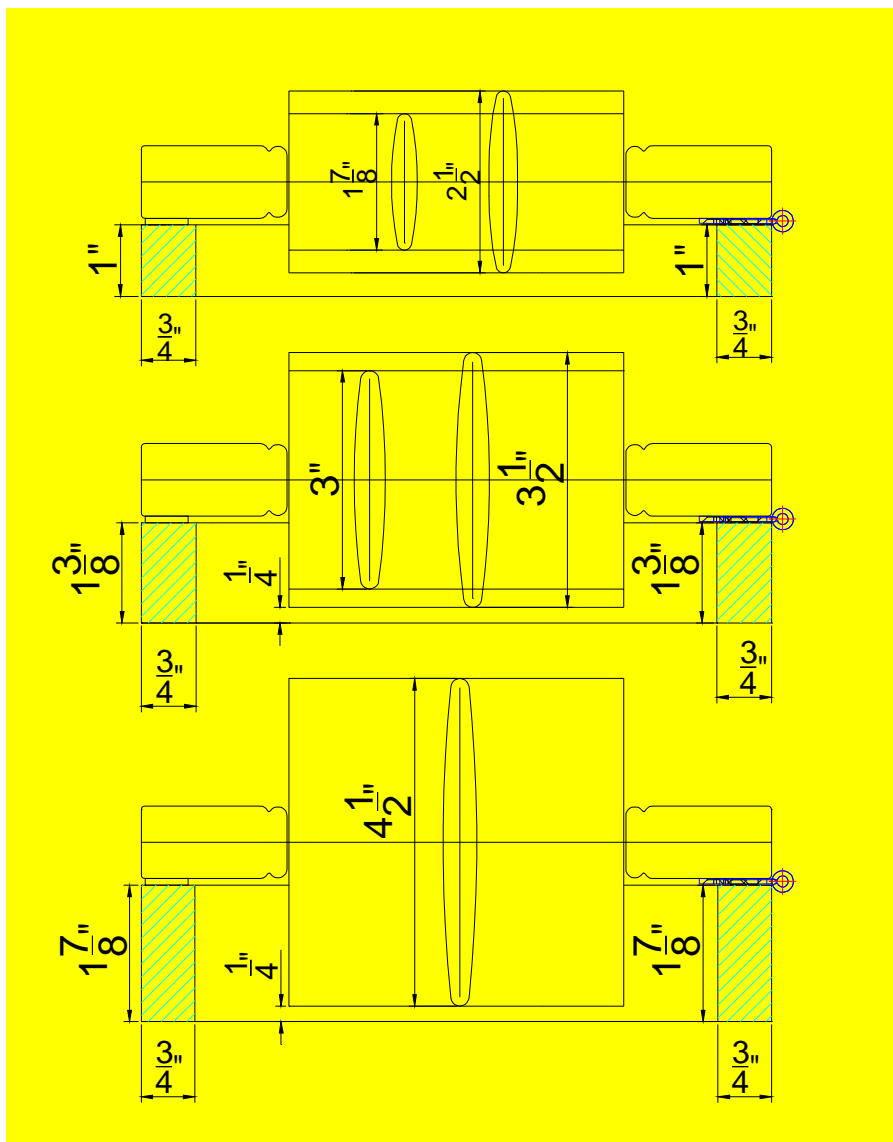
\* Surcharge applies. Please see Options and Surcharges page for details. WL k-1

# Woodlore® Shutters

## Batten size for Type E/F

- The batten is placed behind the Type E/F panel to block light.

Louver size	Batten Width	Batten thickness	Material
1 7/8" & 2 1/2"	3/4"	1"	Woodlore
3" & 3 1/2"	3/4"	1 3/8"	Wood
4 1/2"	3/4"	1 7/8"	Wood



\* Surcharge applies. Please see Options and Surcharges page for details. WL k-2



# Pricing

<b>1) By Max Frame-to-Frame Measurement:</b>							
<b>Regular Shutter</b>							
Inside and Outside Mount		Width	x	Height	/ 144	x	\$/sq ft
<b>Track Shutter**</b>							
Inside		Width	x	Height	/ 144	x	\$/sq ft
Semi-Inside and Outside Mount		Width	x	(Height-1½")	/ 144	x	\$/sq ft
<b>2) By Net Panel Measurement:</b>		Width	x	Height	/ 144	x	\$/sq ft
<b>3) By Window Size:</b>							
<b>2" Camber Deco Frame 2" Classic Deco Frame</b>	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
<b>3" Ridge Deco Frame</b>	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
<b>2.5" Mission deco frame</b>	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
<b>3" Crown Z Frame</b>	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

# Woodlore® Shutters

## Pricing

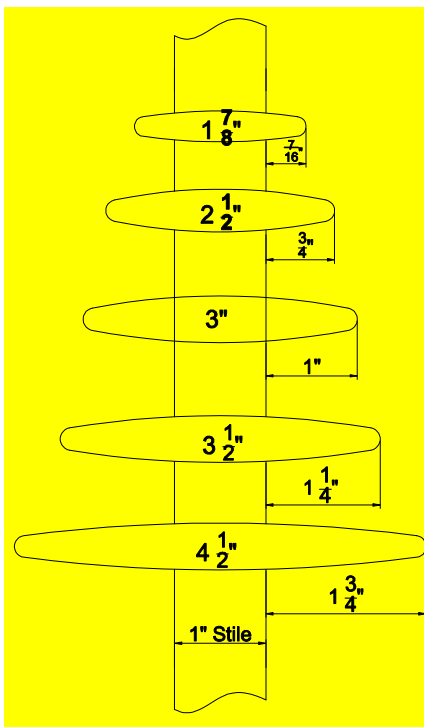
2" Bel Air Z Frame 2" Bullnose Z Frame	4-sided	(Width+2 ½")	x	(Height+2½")	/ 144	x	\$/sq ft
	3-sided with Sill Plate	(Width+2 ½")	x	(Height+2½")	/ 144	x	\$/sq ft
	3-sided	(Width+2 ½")	x	(Height+1 ¼")	/ 144	x	\$/sq ft
	2-sided with Sill Plate	(Width+2 ½")	x	(Height+1 ¼")	/ 144	x	\$/sq ft
	2-sided	(Width+2 ½")	x	(Height)	/ 144	x	\$/sq ft
1.5" Bullnose Z Frame 1 ¼ " Beaded Z Frame/ Bullnose Tilt Out Z Frame	4-sided	(Width+2")	x	(Height+2")	/ 144	x	\$/sq ft
	3-sided with Sill Plate (N/A w/ Tilt out Z)	(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 (N/A w/ Tilt out Z)	(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
Vintage L Frame Beaded 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

## Appendix

### Color Coordination Chart

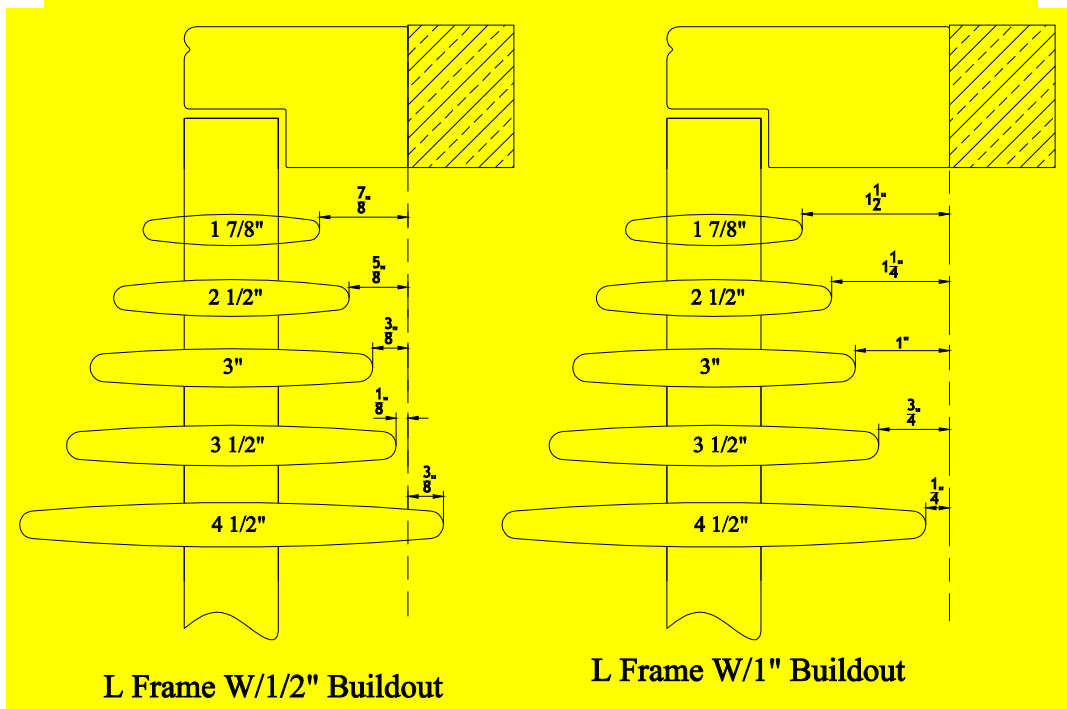
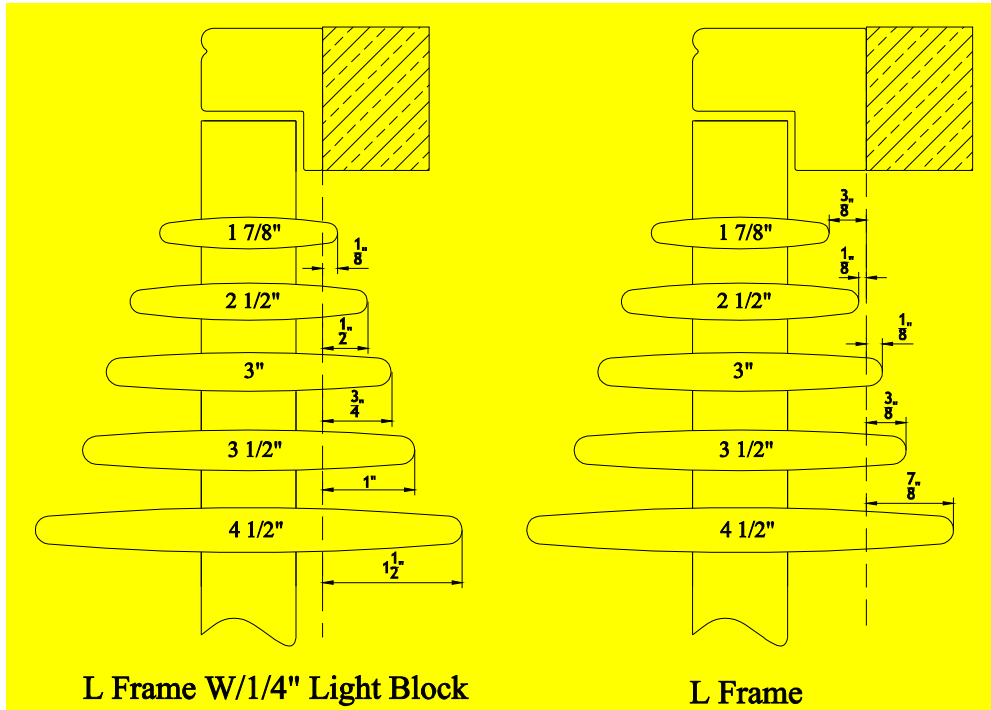
Color ID	Color Name	New Hinge color (Default)	New Ring pull color	New T post connector color	Top Track color (Default)
001	Pure White	Pure White	White	Pure White	White
003	Silk White	Silk White	White	Silk White	White
006	Pearl	Pearl	Pearl	Pearl	White
012	Crisp Linen	Crisp Linen	Bisque	Bisque	White
019	String	String	Bisque	Bisque	White
032	Sea Mist	Sea Mist	Brushed Nickel	Nickel Plated	Anodised Silver
049	Stone Gray	Stone Gray	Brushed Nickel	Nickel Plated	Anodised Silver
051	Brown Gray	Brown Gray	Brushed Nickel	Nickel Plated	Anodised Silver
080	Taupe Gray	Taupe Gray	Brushed Nickel	Nickel Plated	Anodised Silver

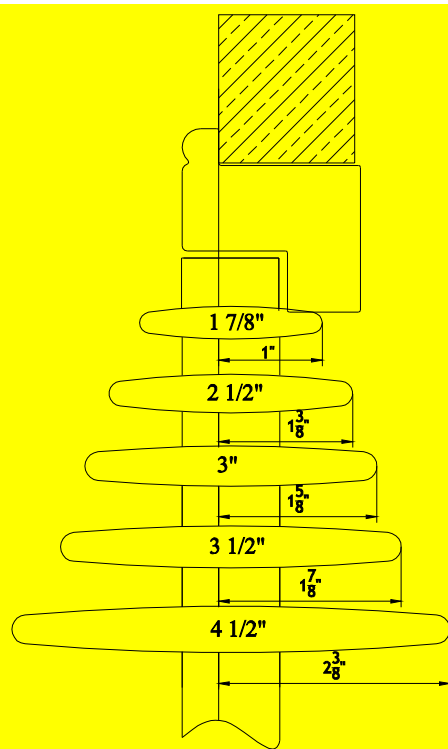
### Louver Depth Clearance



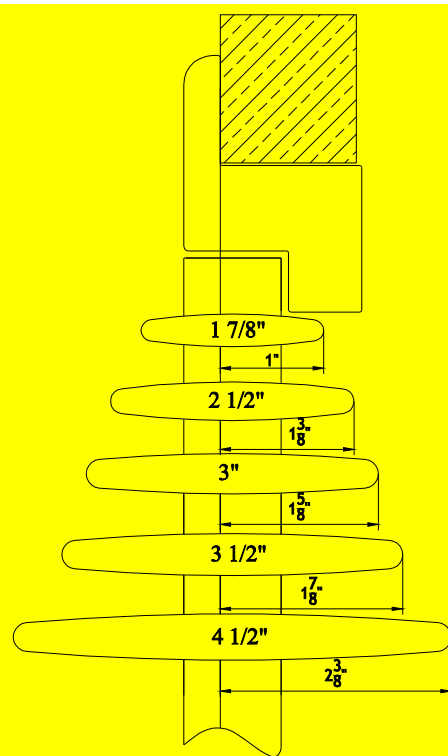
# Woodlore® Shutters

## Louver Depth Clearance for Specific Frames

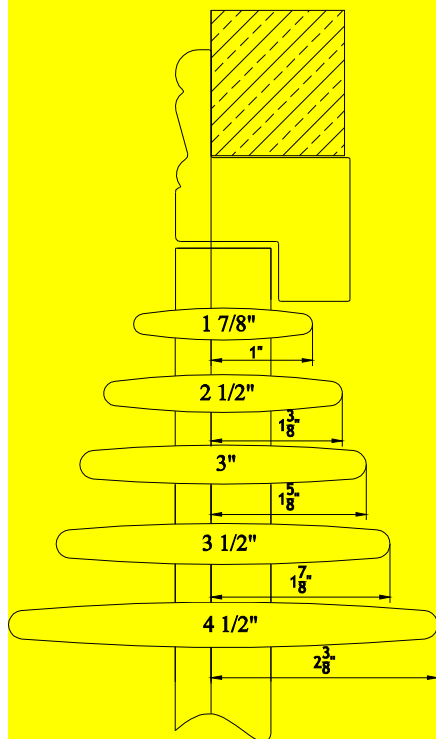




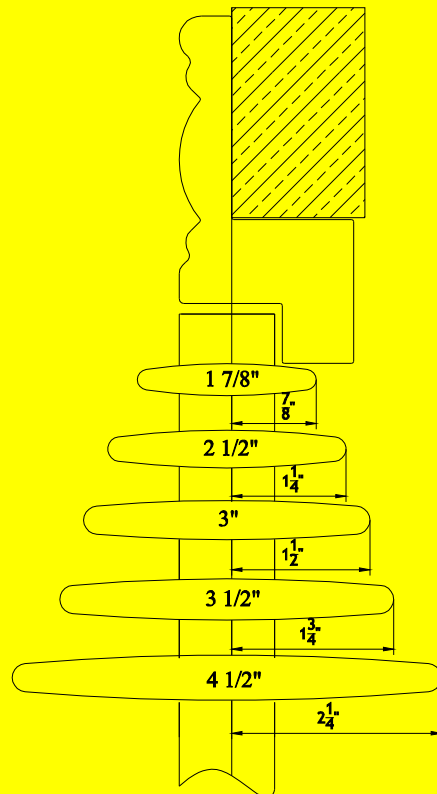
**1 1/4" Beaded Z Frame**



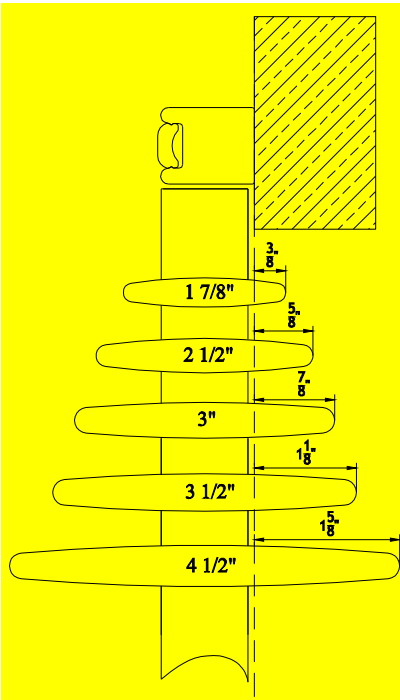
**2" Bullnose Z Frame**



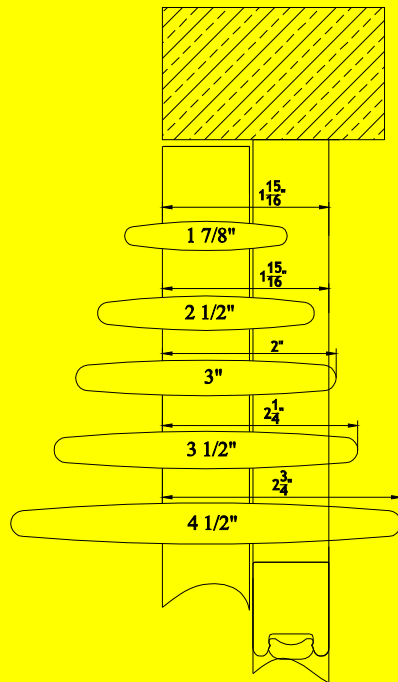
**2" Bel Air Z Frame**



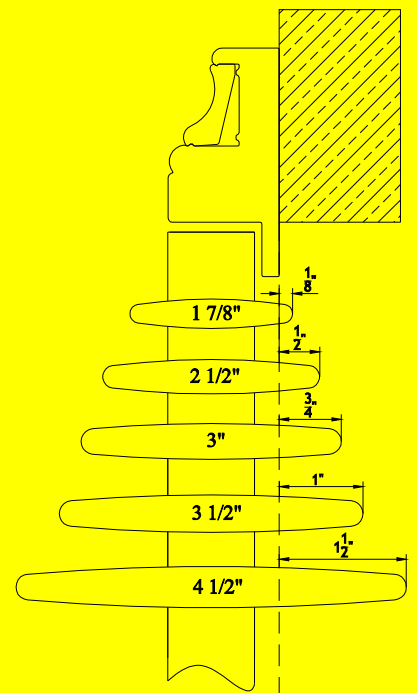
**3" Crown Z Frame**



Hang Strip (Beside the panel)



Hang Strip (Behind the panel)



Deco Frame



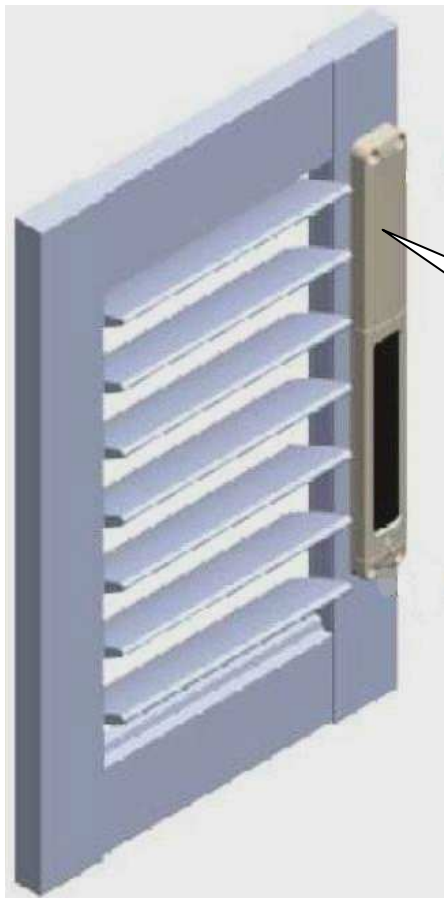
# Woodlore® Shutters

## New PerfectTilt RF

The new PerfectTilt RF has many exciting features & benefits.

- iPhone and iPad control with hub (optional)
- Quick response to tilt commands
- 8 pre-programmed louver positions and one custom position with remote. Over 30 custom louver positions with Dial.
- Louvers can be tilted by hand, remote or app (via hub) without neither the need for flipping switches nor the risk of damage because of incorrect switch settings.
- Two long-lasting rechargeable 18650 Lithium-ion batteries per module unit last up to 1 year on a single charge via USB port
- High efficiency solar panel included for extending battery charge
- Water repellant module units
- Built-in jam protection for child and pet safety

## Parts and Names:



PerfectTilt G4  
Module



Norman Dial (Remote)


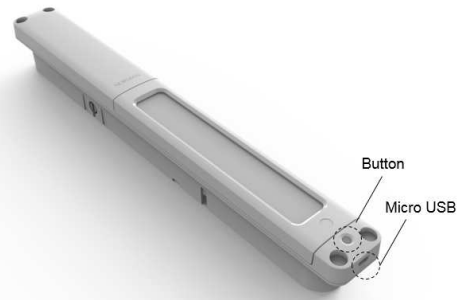

# Woodlore® Shutters

## Specifications:

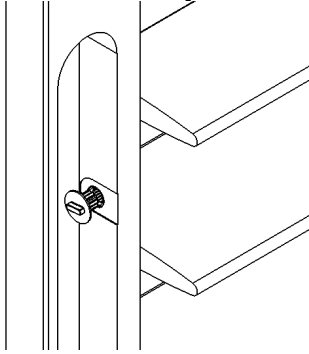


Shutter Type	All types except bi-fold double hung or panel with gap at bottom over 0.1" (no support on bottom)	
Specialty Shutter Shape	All shapes except shapes without a vertical stile in the middle (for example, eyebrow, elongated eyebrow, half-round sunburst without horizontal louvers)	
Tilt System	Invisible Tilt only, the tilting system will not split unless specified	
Stile Width	2.25" stile only	
Louver	2.5", 3", 3.5", 4.5" Elliptical louver	
Panel Size Limit	Min. Panel Height	
	With lined up Motors	With Staggered motors (which is default for 180 degree bifold track shutters; and optional for other types of shutters)
	18"	Louver space not less than 26", so at least 13 louvers for 2.5" louver; 11 louvers for 3" louver; 9 louvers for 3.5" louver; 7 louvers for 4.5" louver.
	Max. Panel Height without divider rail: 74" Min. Panel Width Limit: 8 11/16" Max Width Limit: same as regular non-motorized shutters	

# Woodlore® Shutters

## Components:

Items	drawing
<p>Norman Dial (Remote) and Docking:</p> <p>Dimensions : 68mm diameter x 34mm</p> <p>Distance of transmission (control): 100 meters without shelter</p> <p>Default color ring's color: black</p> <p>Optional color ring's colors: White, Gray, Brone, Red</p>	
<p>Module</p> <p>Model: PerfectTilt G4</p> <p>Module color is White for shutter colors Pure White, Silk White &amp; Pearl;</p> <p>Module color will be match shutter colors except Pure White, Silk White &amp; Pearl.</p> <p>Dimensions : 332.5 x 38.5 x 36.8 mm</p> <p>One for each louver section,</p> <p>2X long-lasting rechargeable 18650 lithium-ion batteries built-in, charge PerfectTilt G4 Module by Micro USB interface with 5V.1A power bank or adaptor.</p>	
<p>Micro USB cable (Optional)</p> <p>Color: White</p> <p>For charging PerfectTilt G4 Module.</p>	

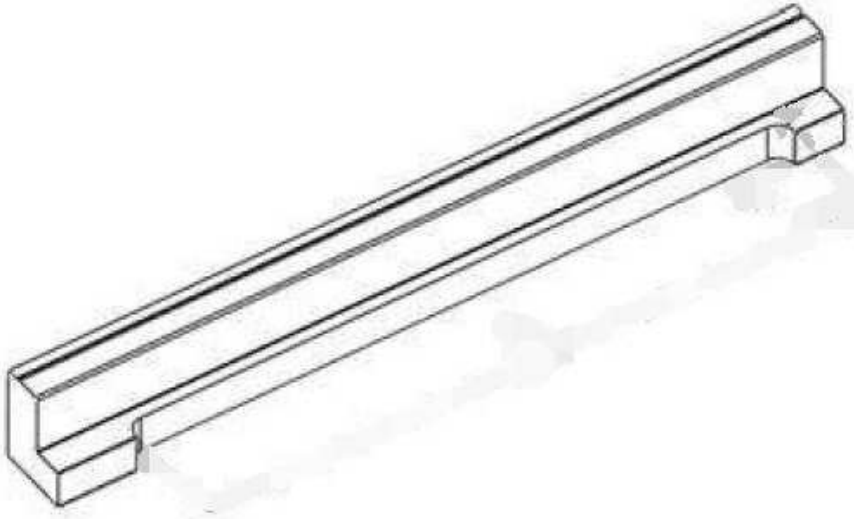
# Woodlore® Shutters

<p>Slotted Point Driver</p> <p>One for each louver section.</p> <p>Connect the Easy Tilt and the Module; when fit the slotted point driver into the stile, make sure the angle is the same as that of the louvers.</p>	
<p>Norman Hub</p> <p>Color: Black</p> <p>Dimensions: 94mm diameter x 27.8mm</p> <p>Micro USB cable</p> <p>Color: Black</p> <p>Connect the Smart phone and the Norman hub, all shutters assigning to the remote can be controlled by APP via Norman hub.</p> <p><b>Note: It will be available in March 2019.</b></p>	
<p>Repeater</p> <p>Color: black</p> <p>Plug Repeater into the enclosed Power Adapter and then plug into home power supply.</p> <p>It is recommended to deploy each room with a repeater;</p> <p>If the distance is more than 10 meters, add one more repeater.</p>	

## ✧ Frame Cut-Out

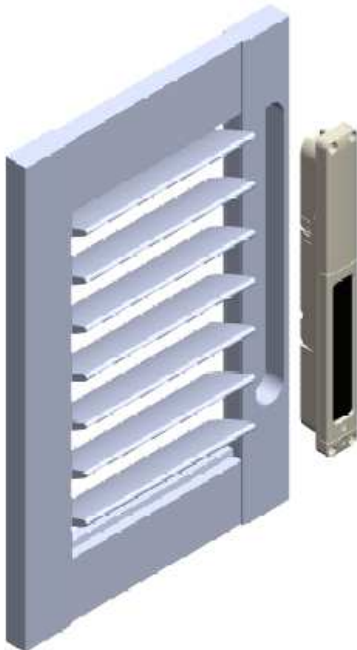
For single panel or configuration similar to single panel with frame, the module location will conflict with the light block of the frame, so there will be cut-out on the light block of the frame to stop the conflict, the length for the cut-out would be 335mm

# Woodlore® Shutters



## Clearance:

The module will protrude 15.5mm (5/8") from the back of the stile, please allow 17mm (11/16") clearance for the module.

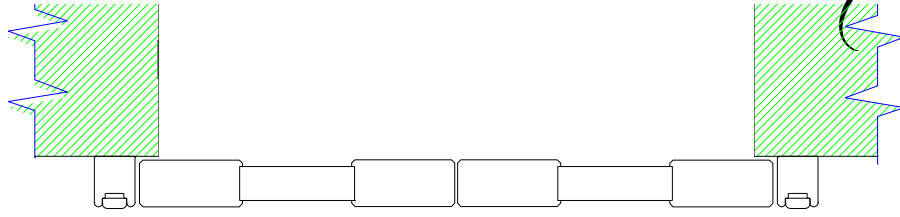


E.g.: Below is the situation **not available** for the module unless enough build-out is added to the frame.

Hang Strip OM: beside the panels

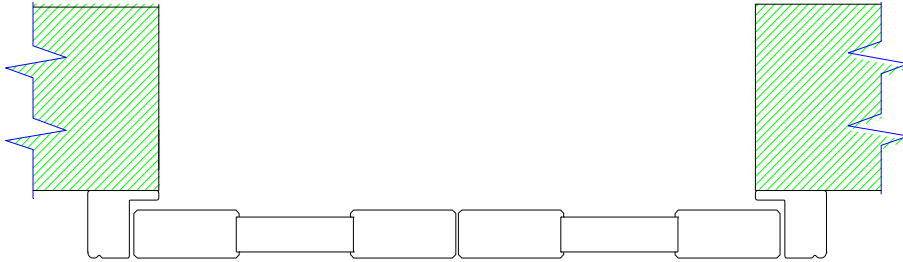
When module is on the left/right most stiles, the protrusion part will conflict with the wall.

# Woodlore® Shutters

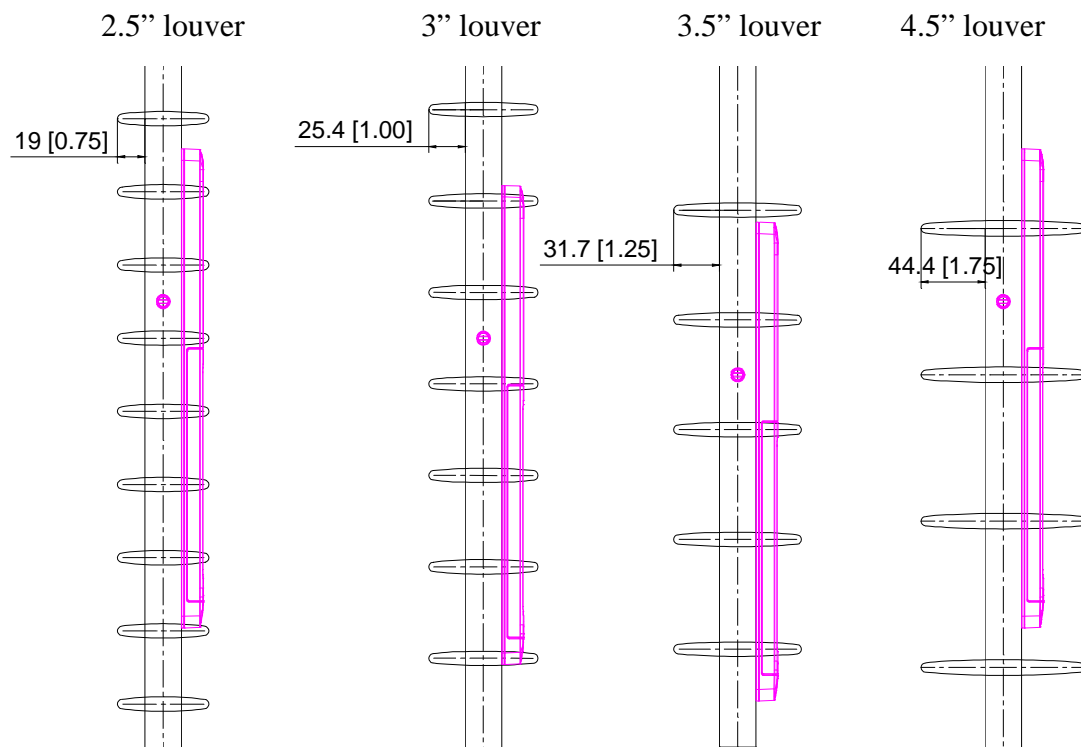


L Frame with light block thickness less than 3/4" OM:

When module is on the left/right most stiles, the protrusion part will conflict with the wall.



Side view for module in panel with different louver types

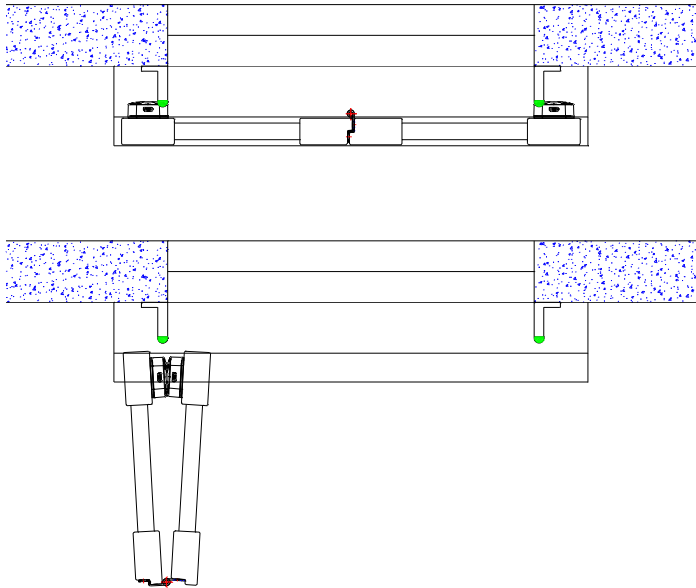


**For Motorized 90° Bifold Track Shutter:**

- 1) Both 3" and 3.5" Header are available;

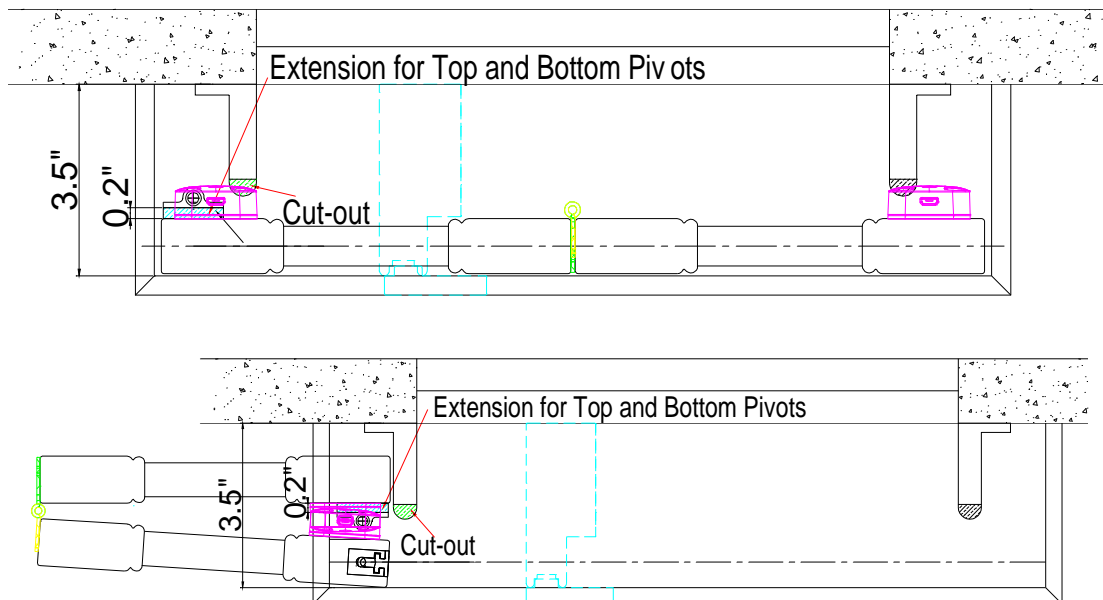
# Woodlore® Shutters

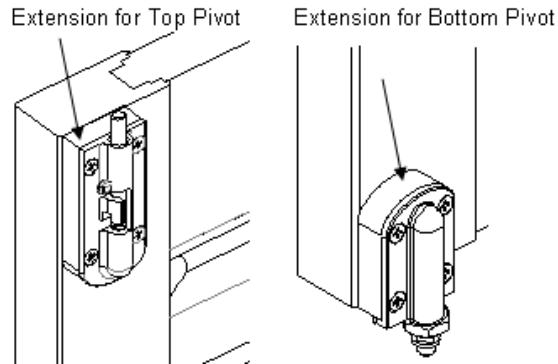
- 2) The L Shape Light Block will be cut out 1/4" to avoid the confliction with the module;



## For Motorized 180° Bifold Track Shutter:

- 1) The default header width is 3.5"; The min. Header width is 3.25"; so for 3" header, 1/4" extension is required;
- 2) The L Shape Light Block will be cut out to avoid the confliction with the module; 0.2" extension is necessary for installation of the top and bottom pivots;

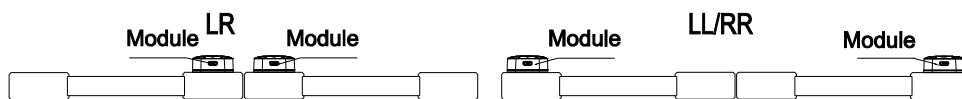




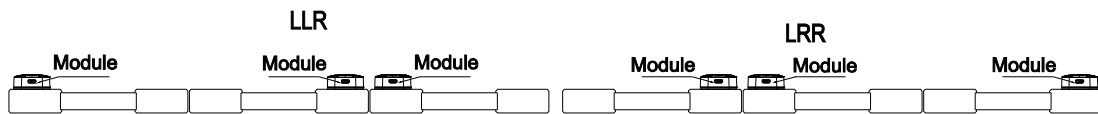
**Module Location:** (Easy Tilt will be on the same side as the module)

**For regular shutter and bi-fold Application (Except for bifold track):**

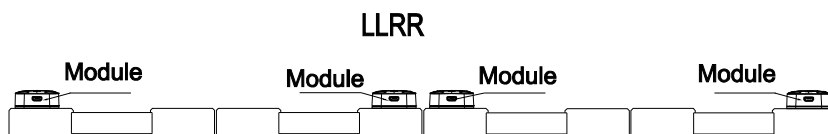
- 1) Single Panel: Module will be on the un-hinge stile
- 2) 2 Panels: LL, LR, RR



- 3) 3 Panels: LLR/LRR

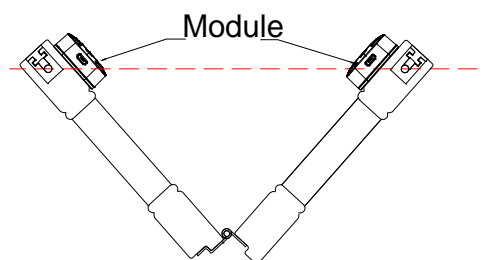


- 4) 4 Panels: LLRR



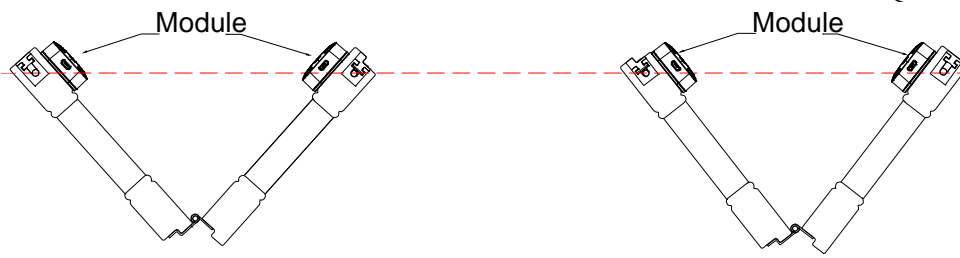
**For 90° and 180° Bifold Track:**

LL/RR





LLRR



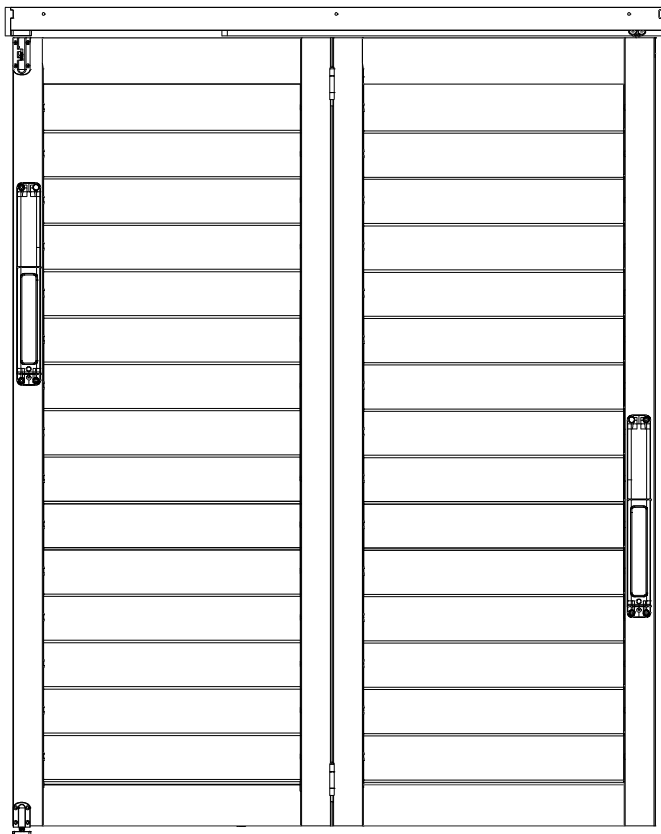
## Special Note on Bi-fold Configurations

Please be aware that in bi-fold configurations, the motorization modules will touch each other when the panels are folded together, so the panels can't be able to stack together as tightly as that of the non-motorized shutters.

Additionally, before folding the bi-fold panels together, please ensure that the louvers are returned to a completely closed position (either up or down) to prevent louver damage when folding panels.

For better fold, it is optional to have the modules staggered for bi-fold.

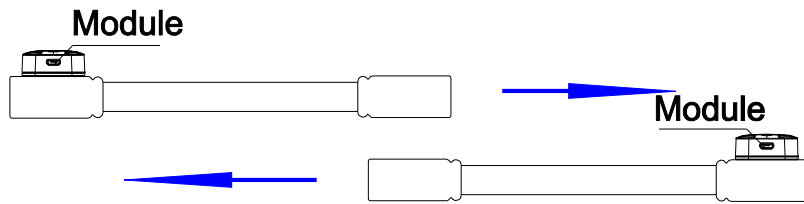
However, for 180°bifold track shutter, the modules can only be staggered.



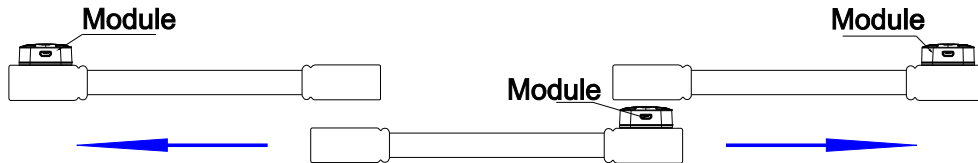
# Woodlore® Shutters

## For By-Pass Application

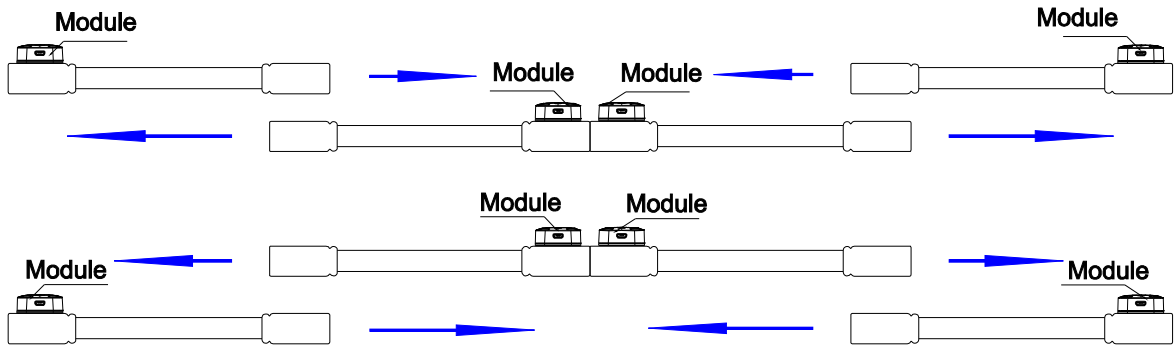
### 2 panels side open



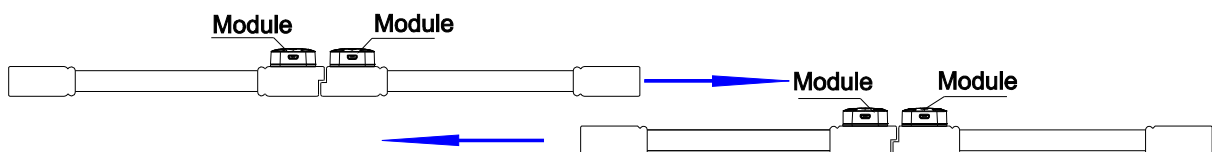
### 3 panels center open (not available for Open Bypass)



### 4 panels center open



### 4 panels side open



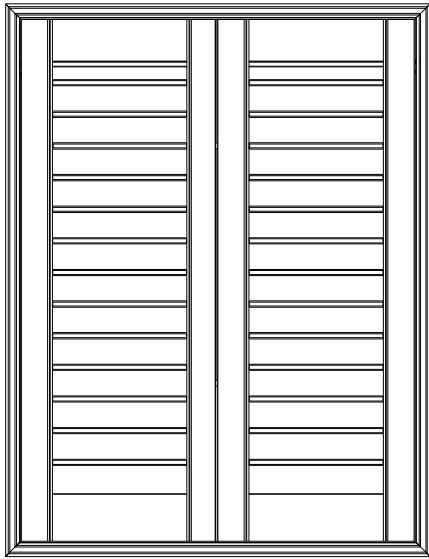
## For Special Shape Application:

Module location will be the same as the Invisible Tilt location.

# Woodlore® Shutters

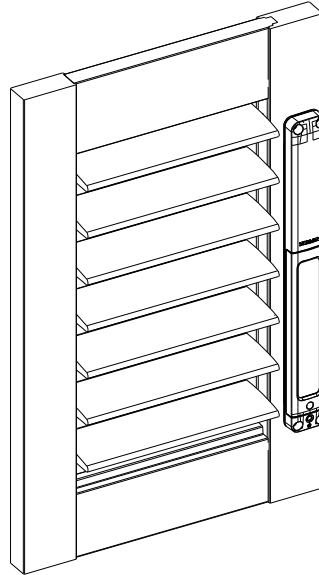
## SHUTTER LOOK FROM FRONT AND BACK

The front side of the shutter



- \* No Receiver / Louver Cap
- \* Invisible tilt only

The back side of the shutter



- \*The light block would be cut out along the module.