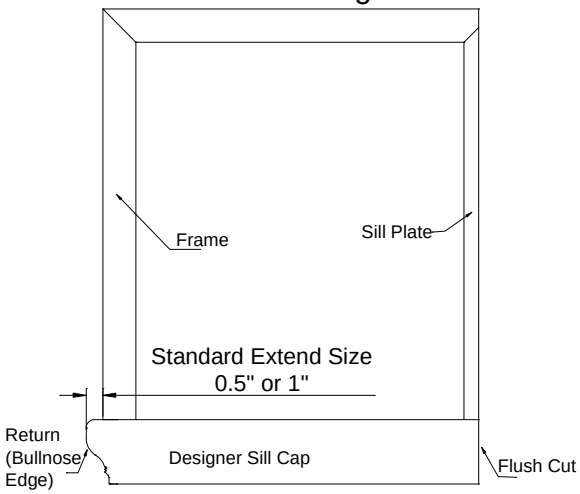
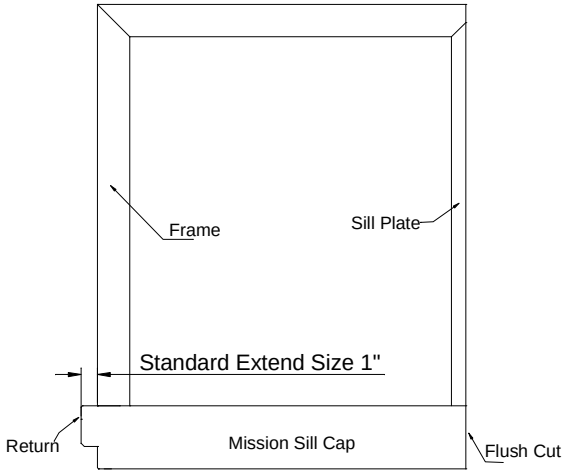
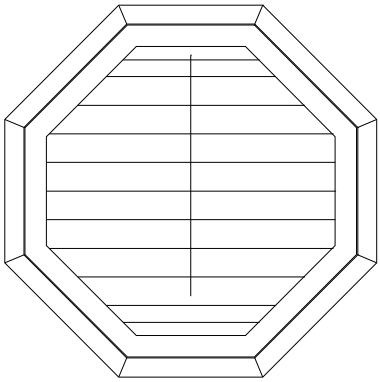
2024 Shutter Revision log

Effective Date	Topic	Section	Note
2024/02/01	Stile Sill Cap	c,e,l	c: Update stile information. e: Add content and drawings.  Please note that by **DEFAULT: the Designer Sill Cap will be flush-cut and will not have a Return (bullnose edge) on the side(s) of the shutter th at has a Sill Plate at the left and/or right side(s).** When the customer indicates the existing sill width for the Designer Sill Cap, and the custom extended sill width is less than the standard: **½" extend on each side** (after calculation), then the standard **½" extend on each side** will be used.  Please note that by **DEFAULT: the Mission Sill Cap will be flush-cut and will not have a Return on the side(s) of the shutter that has a Sill Plat e at the left and/or right side(s).** Not available for Waterproof option When the customer indicates the existing sill width for the Mission Sill Cap, and the custom extended sill width is less than the standard: **1" extend on each side** (after calculation), then the standard **1" extend on each side** will be used.

2024 Shutter Revision log

<table>
<tr>
<td></td>
<td>Octagon</td>
<td></td>
<td>l: Add content and drawing.

The left and right vertical stiles cannot be less than 8.125” for the panel to have hinges on the outer left and/or right stiles with L / R / LR / LTR configurations.
For stiles less than 8.125” tall, the configuration must be RTL with panels hinged to the T post.</td>
</tr>
<tr>
<td>2024/02/21</td>
<td>Sill Cap

Café Shutter</td>
<td>e,k</td>
<td>e: Change content from
When the customer indicates the existing sill width for the Designer Sill Cap, and the custom extended sill width is less than the standard: <u>½” extend on each side</u> (after calculation), then the standard <u>½” extend on each side</u> will be used.
When the customer indicates the existing sill width for the Mission Sill Cap, and the custom extended sill width is less than the standard: <u>1” extend on each side</u> (after calculation), then the standard <u>1” extend on each side</u> will be used.
to
<table>
<tr><th>Left side frame situation</th><th>Right side frame situation</th><th>judge extend size on each side for Designer Sill Cap & Mission Sill Cap</th><th>Notes</th></tr>
<tr><td>Frame</td><td>Frame</td><td>Calculation= (Existing sill width + 0.625" x 2 - MFF width) / 2</td><td rowspan="3">When the customer indicates the existing sill width for the Designer Sill Cap, and the custom extended sill width is less than the standard: ½" extend on each side (after calculation), then the standard ½" extend on each side will be used.

When the customer indicates the existing sill width for the Mission Sill Cap, and the custom extended sill width is less than the standard: 1" extend on each side (after calculation), then the standard 1" extend on each side will be used.</td></tr>
<tr><td>Frame</td><td>Sill Plate</td><td>Calculation= Existing sill width + 0.625" - MFF width</td></tr>
<tr><td>Sill Plate</td><td>Frame</td><td>Calculation= Existing sill width + 0.625" - MFF width</td></tr>
<tr><td>Sill Plate</td><td>Sill Plate</td><td>Close the Existing Sill Width field</td><td>Designer Sill Cap & Mission Sill Cap will be flush cut on both ends</td></tr>
</table>

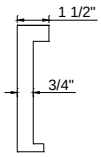
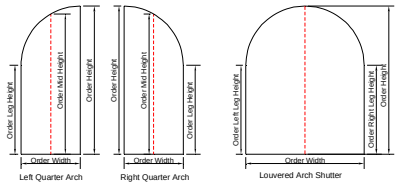
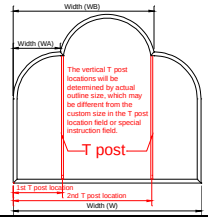
k: Update drawing.</td>
</tr>
</table>

2024 Shutter Revision log

2024/03/08	Features and Benefits	a	Change content from 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. to A wide selection of frames provides both the appearance and function to match your style and preference. Several of the frame options include a removable insert to keep installation screws out of sight for a clean look.
2024/03/16	InvisibleTilt	g,j2	Change InvisibleTilt™ / Invisible Tilt to InvisibleTilt®.
2024/05/08	Specialty Shutters	l	Update specialty shape information
2024/05/16	Custom colors	k	Custom colors update information.
	Horizontal T post Frame include in Rail	e,l	e: Add content “For Double Hung shutter with a horizontal T post, the face width of the horizontal T post defaults to 1” for Woodlore Plus-Waterproof, while the face width of the horizontal T post defaults to 1 3/4” for Woodlore Plus-non Waterproof.” l: Add content “For this reason, the panel will not have any magnets or hinges, since it is a fixed panel.”
Running change	Stile	c	Update the drawing of the stiles
2024/07/15 (MO date)	L Bracket 44mm	i	Add L Bracket 44mm and color coordination chart
2024/07	Specialty Shutters	l	Update and add content: The left and right vertical stiles cannot be less than 8.125” (for 2.375" series hinges) for the panel to have hinges on the outer left and/or right stiles with L / R / LR / LTR configurations. For stiles less than 8.125” (for 2.375" series hinges) tall, the configuration must be RTL with panels hinged to the T post. For all specialty shape shutters, if the hinges are required, the smallest vertical stile straight height (net panel leg height) must be greater than 8 1/8” (for 2.375" series hinges) / 9 3/4” (for Direct Mount 3" hinge) to allow for hinge installation. The limitations of these custom-made specialty shutters shown below are an approximate range. Actual limitations and availability vary depending on the width to height relationship, frame type, stile size, etc. This chart is used for general reference only.

2024 Shutter Revision log

2024/07/18	For bay window at 170 degree or above	e	Add content : Bay post will be used when the degrees of all bay posts in a Bay Window Shutter with both <170 degree and >= 170 degree at the same time.
2024/08/07	Stile	j2	Update description of stile.
2024/08/24	Sill cap Magnet Mount Options For Direct Mount Bypass	e, i, j2, k	e: Update drawings; i: 1. Update magnet drawing; 2. Change content from ● Direct mount without top and/or bottom sill option, “Light block”, “L magnet catch” and “Light block & L magnet catch” options are selectable. ● “Light block”, “L magnet catch” and “Light block & L magnet catch” options are applied to hang strip in one of the following situations: • 2-sided Hang strip IM without top and/or bottom sill option; • 2-sided Hang strip OM without top and/or bottom sill option; • 3-sided Hang strip OM without bottom sill option; • 3-sided inverted Hang strip OM beside the panel without top sill option; to ● A Direct Mount shutter that does not have a top and/or bottom sill option is able to use “Light Block”, “L magnet catch” or “Light block & L magnet catch” options. ● “Light Block”, “L magnet catch” or “Light block & L magnet catch” options can be used for Hang Strip shutters that have the following frame configurations: • 2-sided Hang strip IM that does not have a top and/or bottom sill option; • 2-sided Hang strip OM that does not have a top and/or bottom sill option; • 3-sided Hang strip OM that does not have a bottom sill option; • 3-sided Inverted Hang strip OM (hang strip beside the panel) that does not have a top sill option; j2: Add content and drawing. Note: The boxout frame’s “Side Frame” as well as panel overlap are additional factors that will effect the individual panel width calculation. Side Frame = ¾” thickness on each side Panel overlap will be 1 1/2” for 2” stile and 1 3/4” for 2 1/4”stile;

	Double hung		 k: Add content “Bifold panel configuration (including LL/RR/LLRR) is not available for Double Hung.”
2024/09/27	Bottom Pivot Brackets	j1	Update information of Bottom Pivot Brackets.
2024/10/24	Triangle with Horizontal Louvers & Triangle Sunburst Panel Lock & T-Post Connector Left Quarter Arch & Right Quarter Arch & Louvered Arch Shutter Arch Top Picture Window with horizontal louvers & Horizontal louvers center arch with quarter round side panels & Sunburst louvers center arch with quarter round side panels	e, i, l, j2	e & i & l: Upadte informantion; i: Upadte informantion. l. Add content and drawings.  Left Quarter Arch & Right Quarter Arch: The Order Mid Height must be greater than (Order Height- Order Leg Height)/2 + Order Leg Height. Louvered Arch Shutter: The Order Left Leg Height and the Order Right Leg Height must be no less than Order Height - (Order Width/2). For Arch Top Picture Window with Horizontal Louvers, Horizontal Louvers Center Arch with Quarter Round Side Panels & Sunburst Louvers Center Arch with Quarter Round Side Panels, The vertical T post locations will be determined by actual outline size, which may be different from the custom size in the T post location field or special instruction field, and there must be 2 vertical T posts at least as shown in the following example drawing; If the orders only have these two vertical T posts, it does not need to provide T post locations; If there are other vertical T post(s) excluding these two vertical T posts, please provide the location(s) of the other vertical T post(s). 

2024 Shutter Revision log

	Bypass		j2: Change content from “When the standard boxout / header depth is 7 13/16”, a custom extension up to ¾” can be added to the header depth for a total maximum depth of 8 5/8”.” to “When the standard boxout / header depth is 7 13/16”, a custom extension up to ¾” can be added to the header depth.”
2024/12/02	Arch Top Picture Window with horizontal louvers & Horizontal louvers center arch with quarter round side panels & Sunburst louvers center arch with quarter round side panels	l	Upadte informantion;
2024/12/05	Stile	c	Panel width < 9": Update information;
	Corner window / Bay window InvisibleTilt® Specialty Shutters	e, g, l	e: Supplementary statement of Corner window/Bay window g: Update the approximate panel height range of the maximum possible louvers with the InvisibleTilt® option. l: Add a supplementary statement of frame sides/vertical T-post Qty for specialty shutters and add Peak measurement drawing.

WOODLORE® PLUS

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g.	Tilt Rod	WLP g-1
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m.	Pricing	WLP m-1

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WOODLORE® PLUS

Features and Benefits

Built around the concept of modern convenience, Woodlore® plus combines wood composite frames with durable ABS louvers. Wood composite materials used are harvested from well-managed forests and finished with a polypropylene coating that prevents moisture absorption and allows for easy stain removal. ABS co-polymer louvers are dimensionally stable, which resist cupping, warping and twisting.

36” wide single panel for enhanced view

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.

A wide selection of frames provides both the appearance and function to match your style and preference. Several of the frame options include a removable insert to keep installation screws out of sight for a clean look.

Multiple stile options are available in various sizes to accommodate different window configurations. Use Astragal or Rabbet stiles provide a natural light block between panels.

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.

For Waterproof Option:

- The special option is perfect for wet or moisture prone areas in the home.
- Featuring enhanced resistance to moisture, shrinking and warping, the shutter frame, stile and louvers are made from durable and waterproof ABS co-polymer
- The unique UV inhibiting finish is designed for a virtually worry-free solution.
- Stainless steel hinges included in the option are guaranteed never to rust or corrode.

Colors & Louver Sizes/Louver Clearance

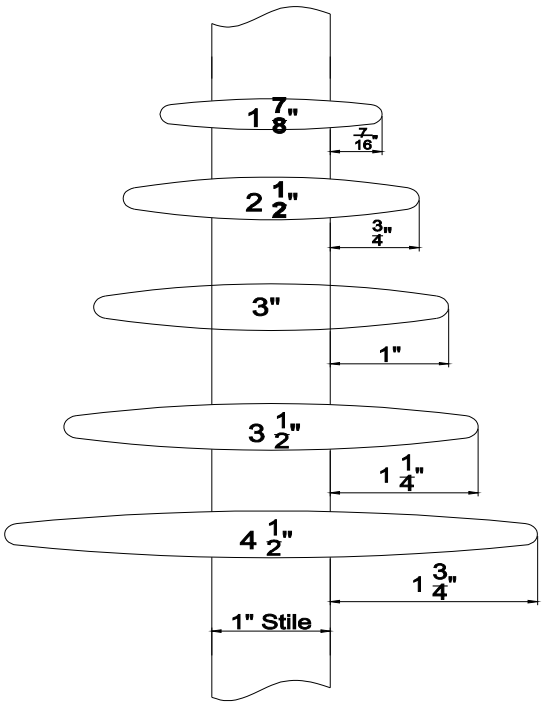
No.	Color ID	Color Name
1	001	Pure White
2	002	Extra White
3	003	Silk White
4	004	Bright White
5	006	Pearl
6	007	Ivory Lace
7	009	Creamy
8	012	Crisp Linen
9	013	Bisque
10	017	Gray Black
11	019	String
12	032	Sea Mist
13	046	Ice
14	053	Clay
15	063	Decorator's White
16	066	Winchester White 2010
17	076	Aura White
18	080	Taupe Gray
19	836	Classic Black
20	090	TS White
21	600	True White
22	601	Chiffon
23	603	Natural Linen
24	609	Chateau Brown

- Please note that darker colors absorb more heat than lighter colors. As a result, shutters in darker colors that face direct sunlight for an extended period of time may absorb more heat, which may potentially affect the long-term performance of the shutter.

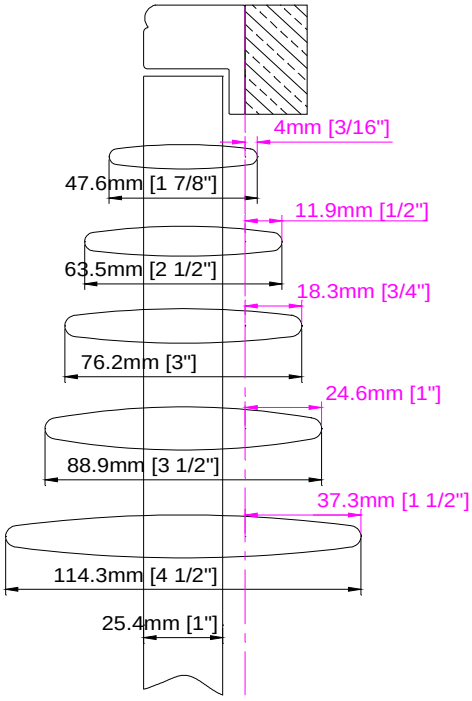
Louvers	
Elliptical	1 ⅞"* 2 ½" 3" 3 ½" 4 ½"

*Some surcharges apply

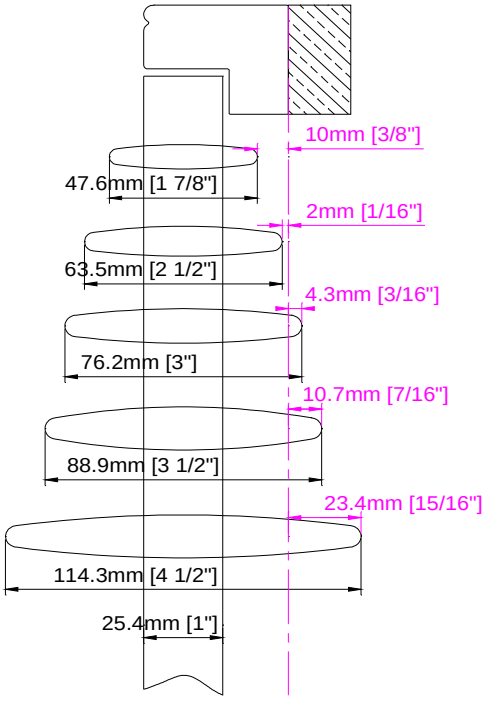
Louver Depth Clearance



Louver Depth Clearance For Specific Frames



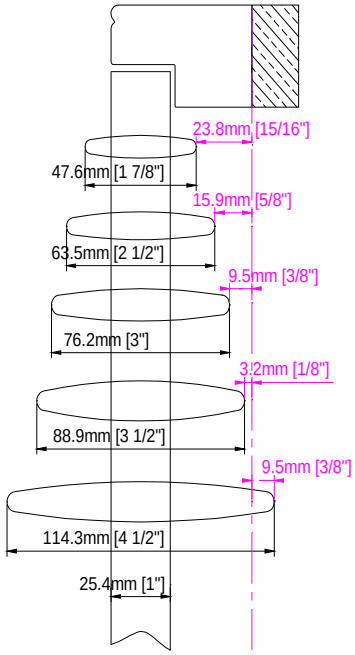
L Frame with1/4" light block



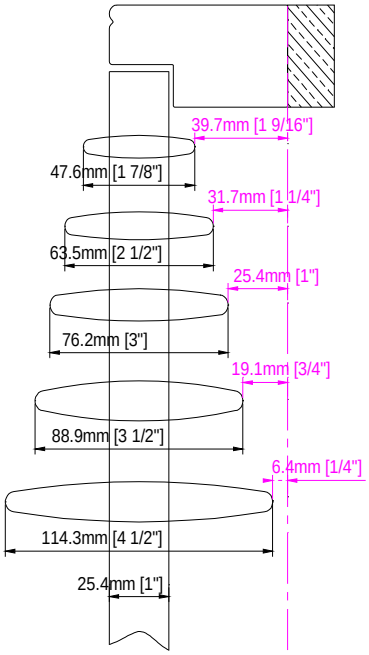
L Frame

Not available for waterproof option

*Some surcharges apply

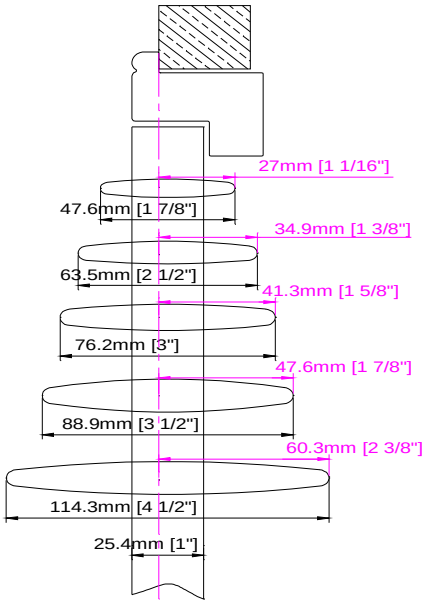


L Frame with 1/2" Buildout

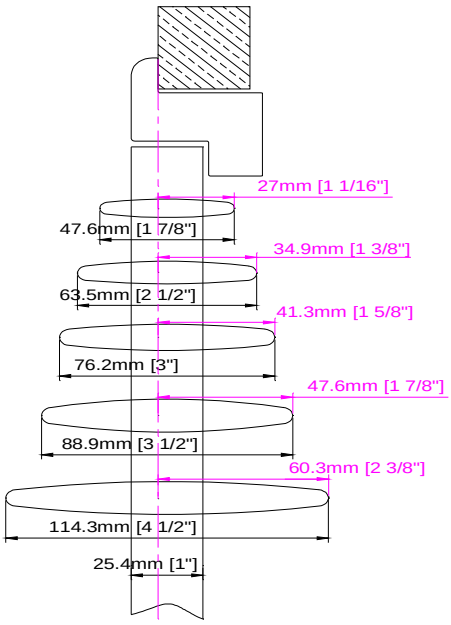


L Frame with 1" Buildout

Not available for waterproof option



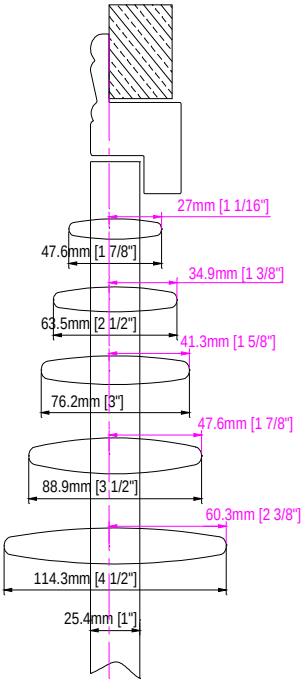
1 1/4" Beaded Z Frame



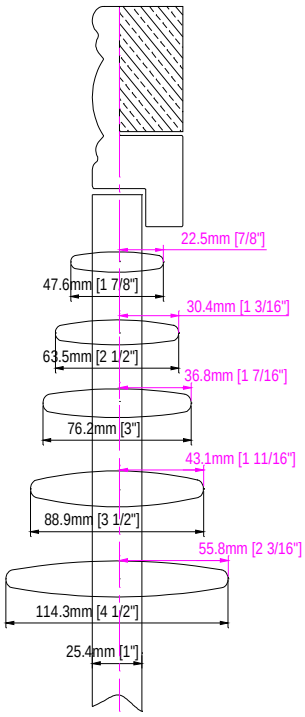
1 1/2" Bullnose Z Frame

Not available for waterproof option

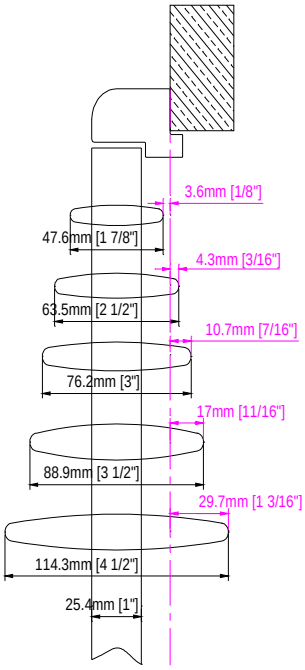
*Some surcharges apply



2" Bel Air Z Frame



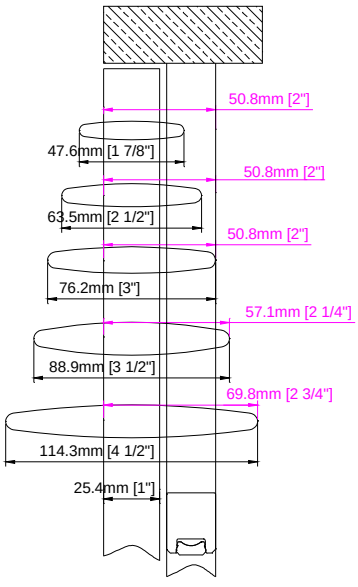
3" Crown Z Frame



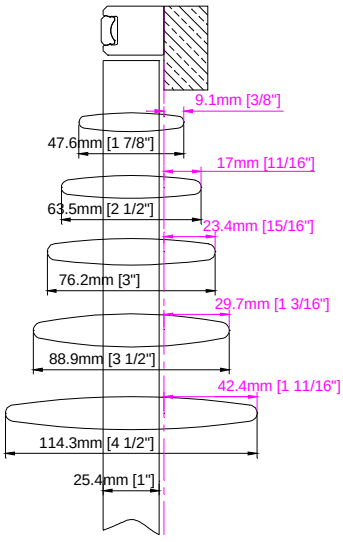
Tilt Out Z Frame

Not available for waterproof option

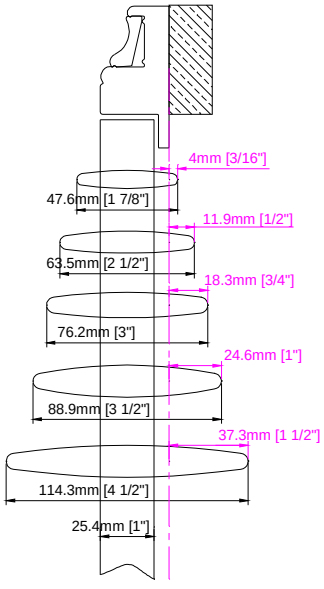
For non-waterproof option



Hang Strip (Behind the panel)



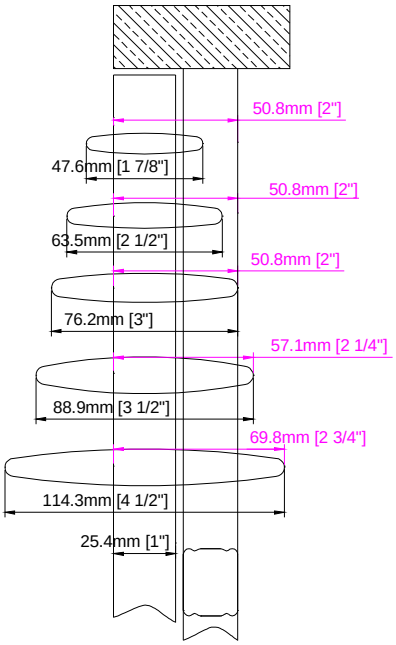
Hang Strip (Beside the panel)



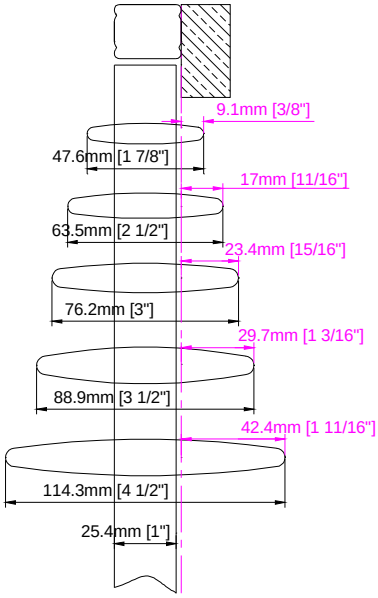
Deco Frame

*Some surcharges apply

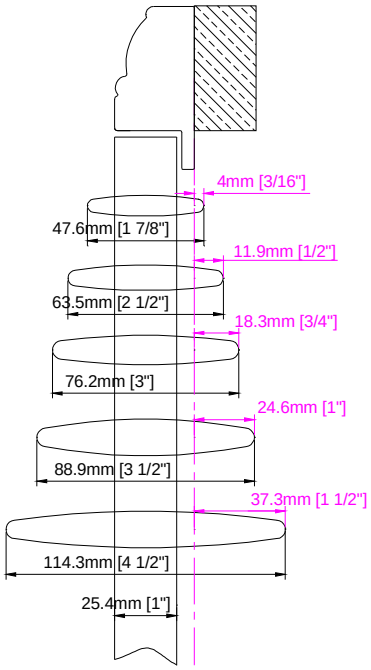
For waterproof option



Hang Strip (Behind the panel)



Hang Strip (Beside the panel)



Deco Frame

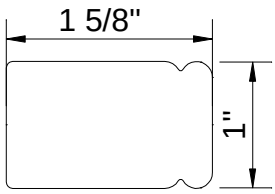
*Some surcharges apply

Stiles

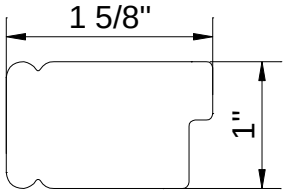
Default: Beaded stile

back

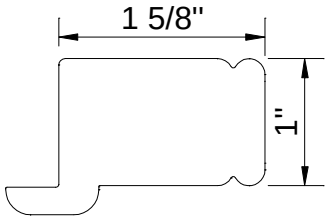
front



1 5/8" Butt Stile



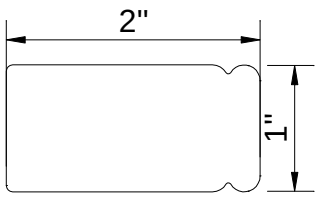
1 5/8" Rabbet Stile



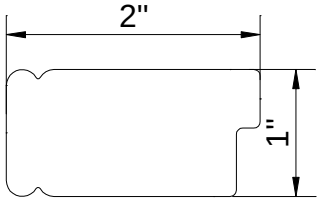
1 5/8" Astragal Stile

back

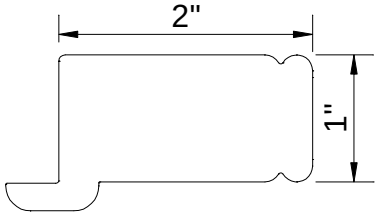
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2" Butt Stile



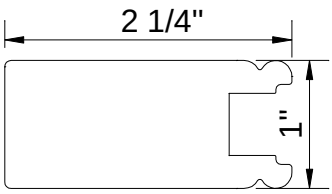
2" Rabbet Stile



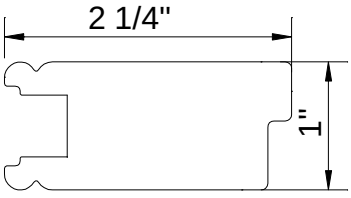
2" Astragal Stile

back

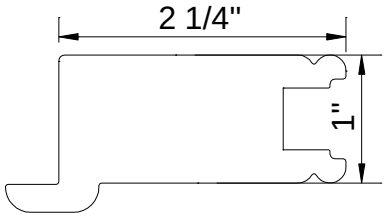
front



2 1/4" Butt Stile



2 1/4" Rabbet Stile



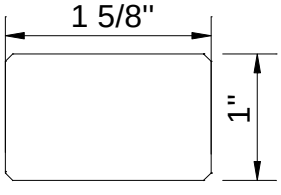
2 1/4" Astragal Stile

Note: 1 5/8” and 2 1/4” stiles are not available for Waterproof option.

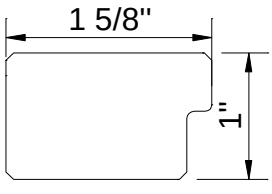
Optional: Chamfer stile

back

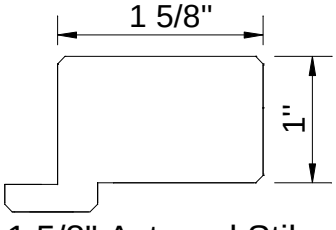
front



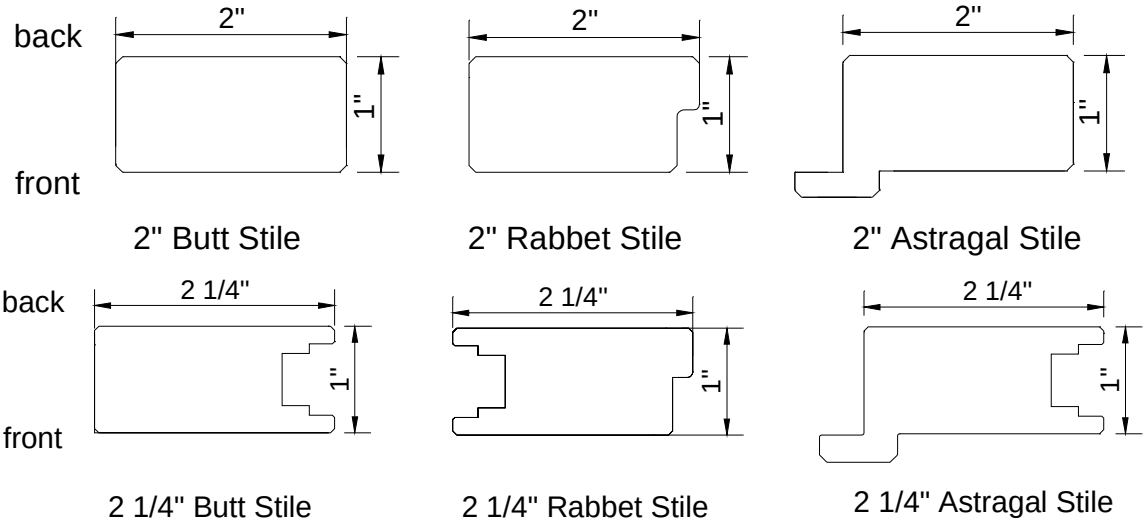
1 5/8" Butt Stile



1 5/8" Rabbet Stile



1 5/8" Astragal Stile



Note: 1 5/8” and 2 1/4” stiles are not available for Waterproof option.

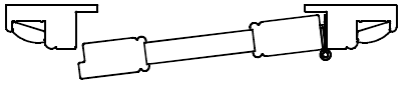
Stile between panel closure

Single panel

I) Panel width < 9"

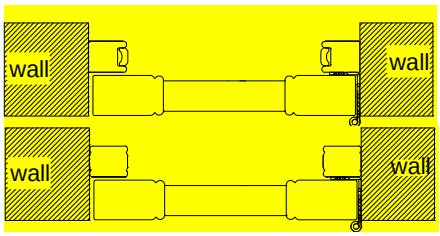
Rabbet stile (Hinged Shutter with Deco frame, L frame, Z frame, Hang strip beside panel and Direct Mount)

- 1 5/8”
- 2” (default)
- 2 1/4”



Butt stile (Hinged Shutter with Hang strip behind panel, French door Type E & Type F)

- 1 5/8”
- 2” (default)
- 2 1/4”



II) Panel width ≥ 9"

Butt stile only

- 1 5/8” (Optional for panel width ≤ 12”)
- 2” (default)
- 2 1/4”

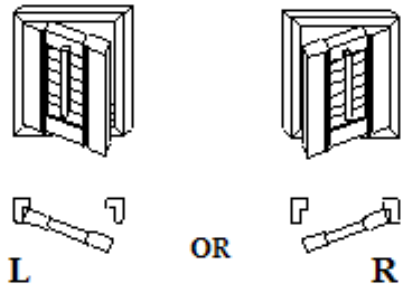
2 panels or more

Rabbet stile or Astragal stile

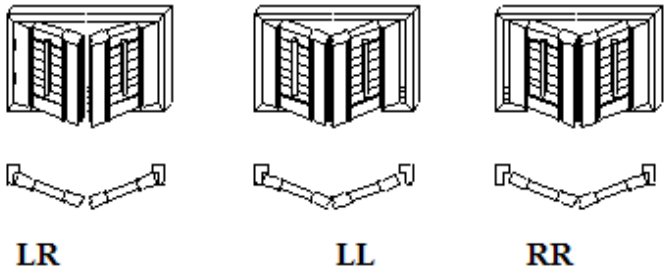
- 1 5/8” (Optional for panel width ≤ 12”)
- 2” (default)
- 2 1/4”

Panel Configurations

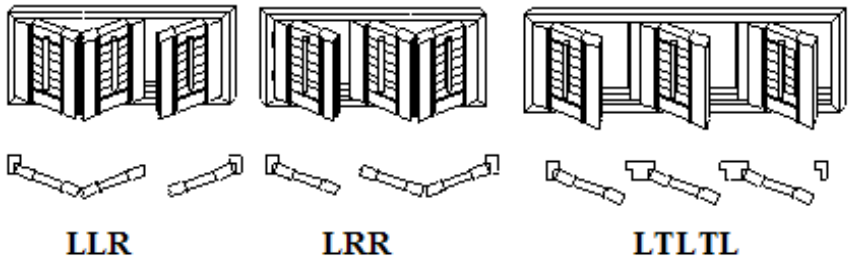
Single Panel

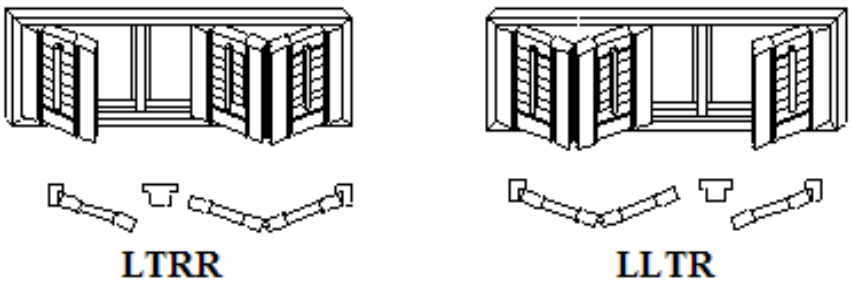


Two Panels

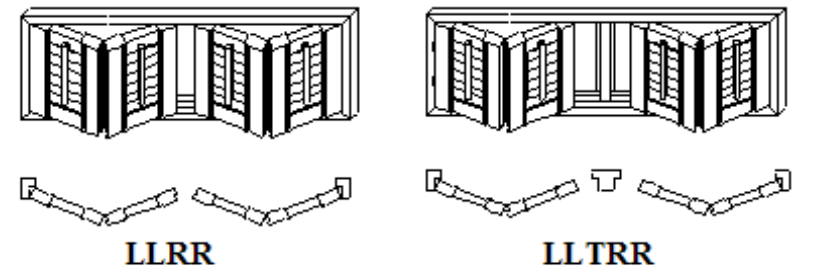


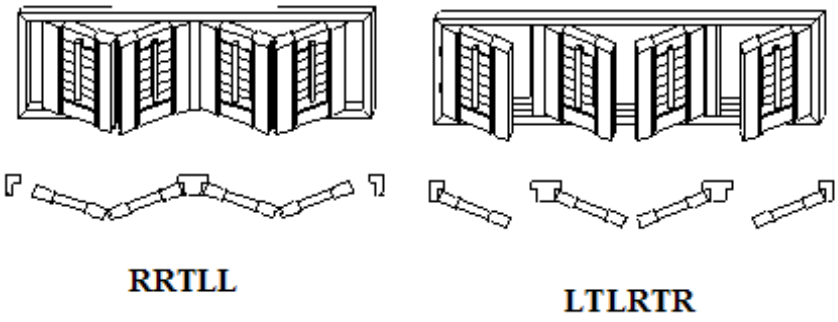
Three Panels



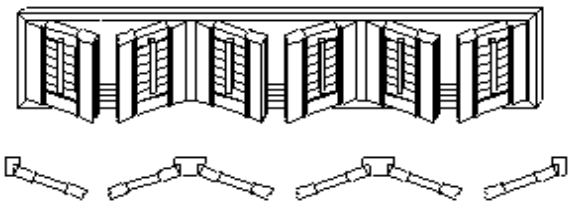


Four Panels

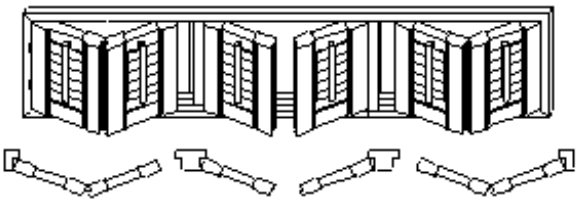




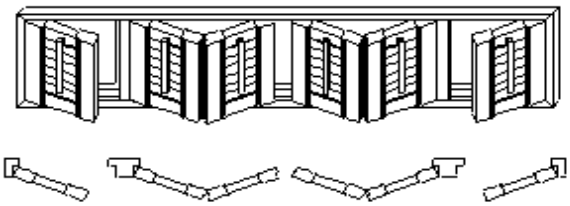
Six Panels



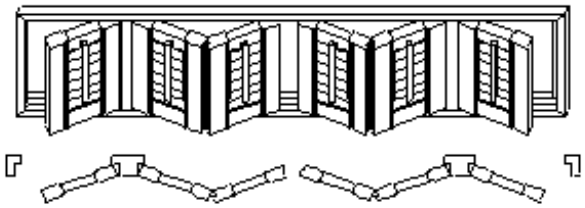
LRTLRTLR



LLTLRTRR



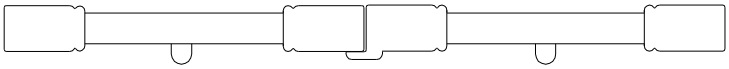
LTLLRRTR



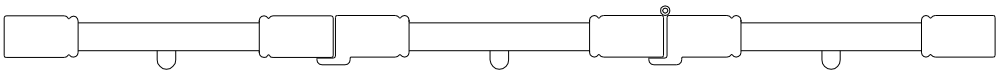
RTLLRRTL

Panel Configurations – Astragal Stile

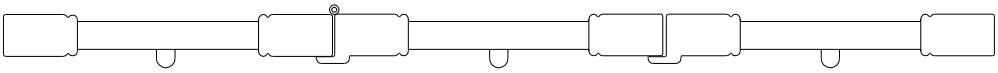
○ 2 Panels – LR/LL/RR



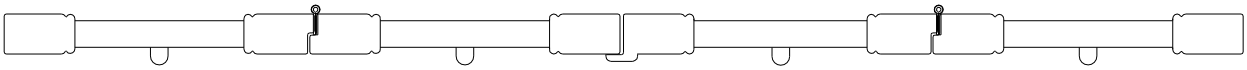
○ 3 Panels - LRR



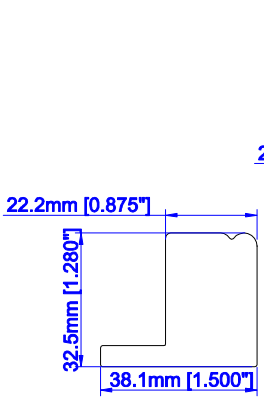
○ 3 Panels – LLR



○ 4 Panels - LLRR

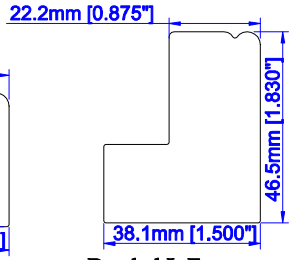


Frame Styles

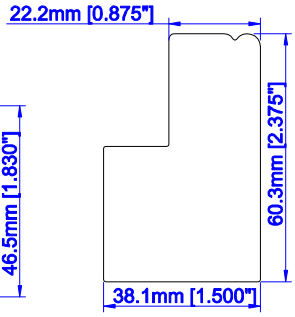


Beaded L Frame with 1/4" Light Block

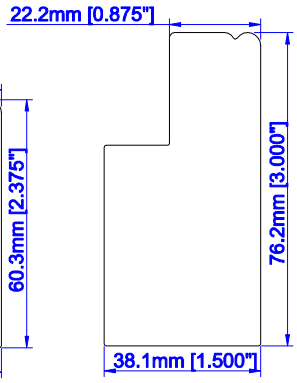
Not available for Waterproof option



Beaded L Frame

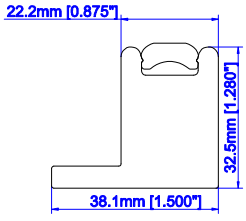


Beaded L Frame with 1/2" Buildout



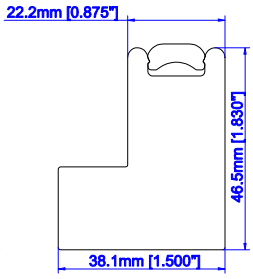
Beaded L Frame with 1" Buildout

Not available for Waterproof option



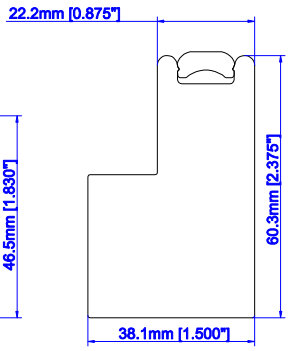
Vintage L Frame with 1/4" Light Block

Not available for Waterproof option



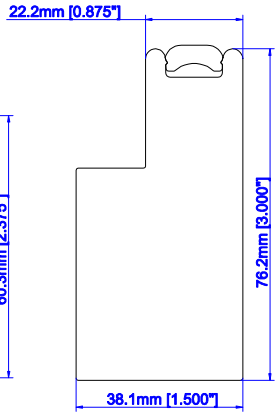
Vintage L Frame

Not available for Waterproof option



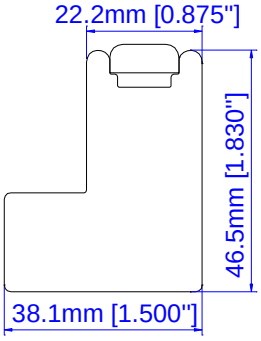
Vintage L Frame with 1/2" Buildout

Not available for Waterproof option



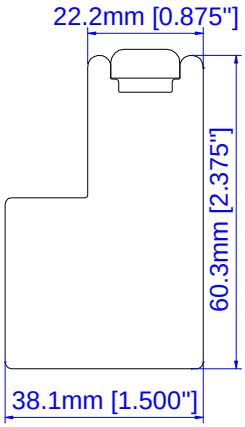
Vintage L Frame with 1" Buildout

Not available for Waterproof option



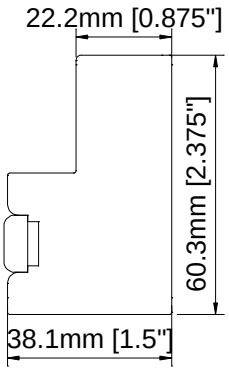
Vintage L Frame

For Waterproof option only



Vintage L Frame with 1/2" Buildout

For Waterproof option only

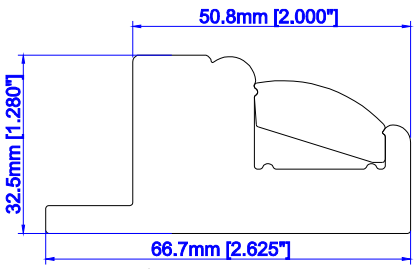


Deep Plain L frame

For Waterproof option only

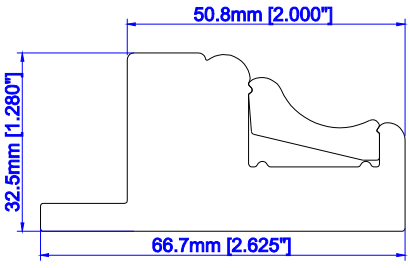
Note: Standard 1” extension for L frame for Waterproof option.

Frame Styles



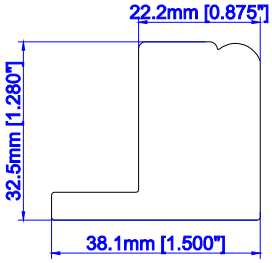
2" Camber Deco Frame

Not available for Waterproof

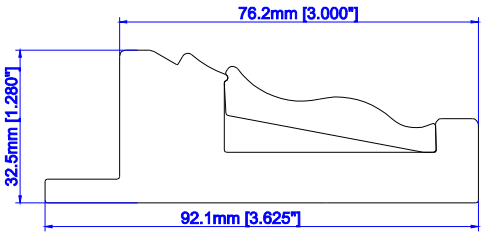


2" Classic Deco Frame

Not available for Waterproof

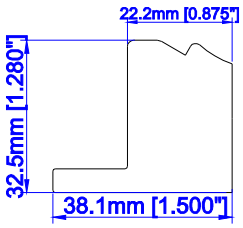


2" Deco Sill Plate



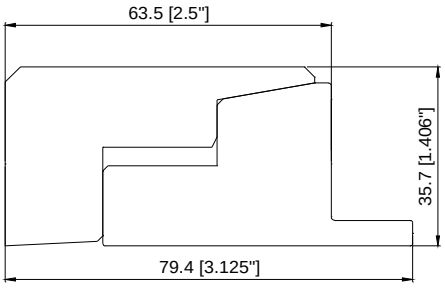
3" Ridge Deco Frame

Not available for Waterproof option



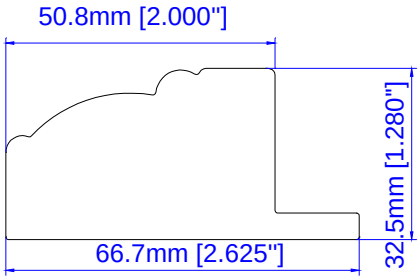
Ridge Deco Sill Plate

Not available for Waterproof option



2.5" Mission Deco Frame

Not available for Waterproof option



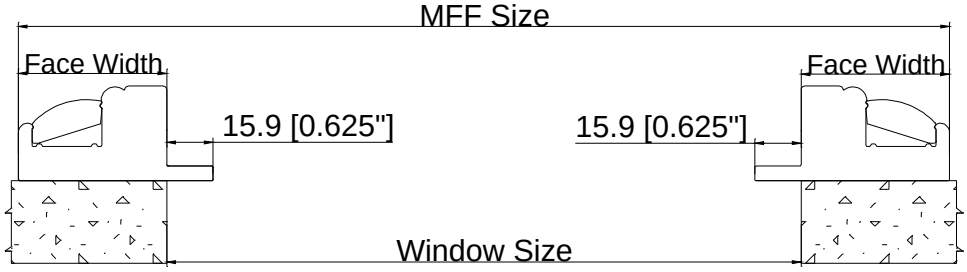
2" Camber Deco Frame

For Waterproof option only

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;

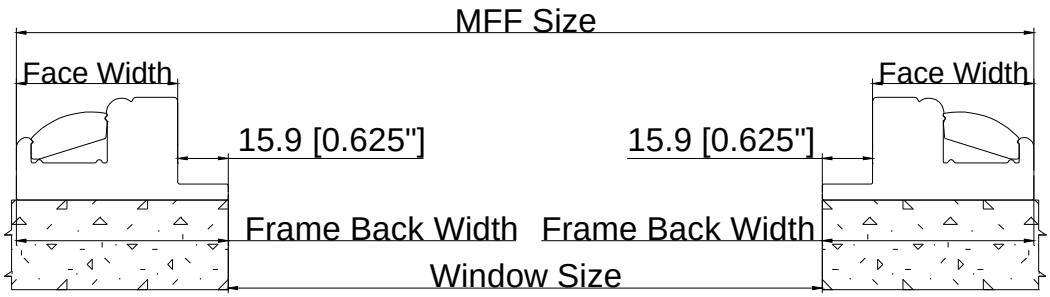
The window size is the exact size of the window opening;
The MFF size is the measurement of the entire shutter, including the frames;
The MFF size =Window Size + Face Width

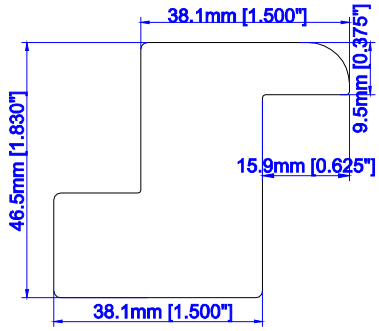


2. Optional: light block part flush with window opening.

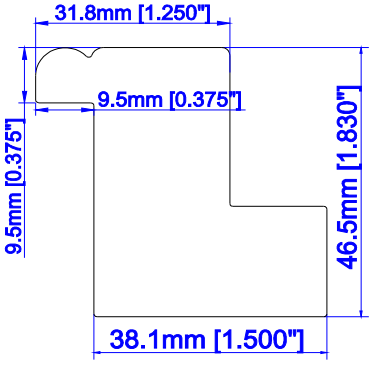
Frame Styles

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

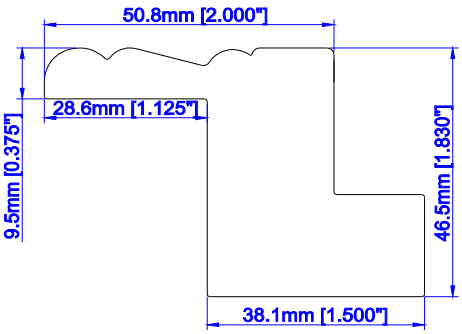




1 1/2" Bullnose Z Frame

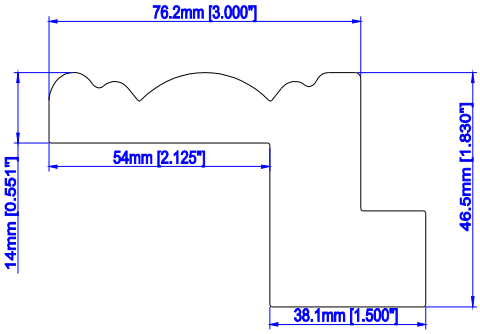


1 1/4" Beaded Z Frame

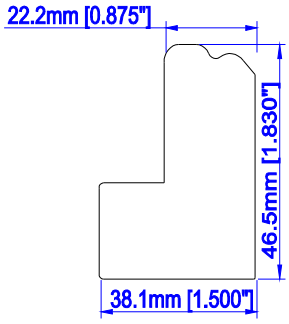


2" Bel Air Z Frame

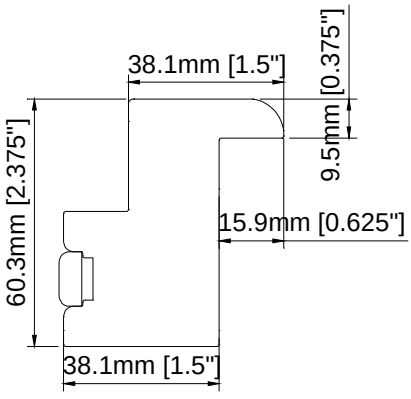
Not available for Waterproof option



3" Crown Z Frame



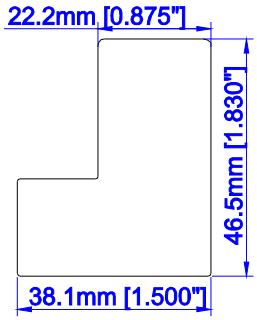
3" Crown Z Sill Plate



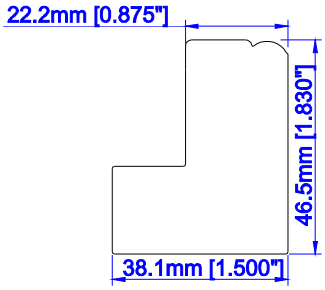
1 1/2" Deep Bullnose Z frame

For Waterproof option only

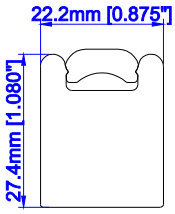
Frame Styles



Bullnose Z
1 1/4" Beaded Z
Sill Plate

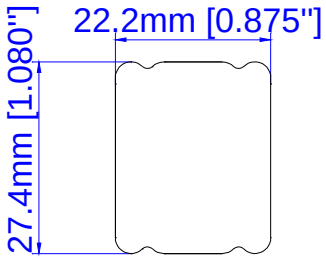


2" Bel Air Z Sill Plate



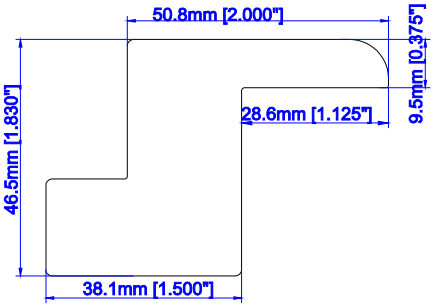
7/8" Vintage Hang Strip

Not available for Waterproof option

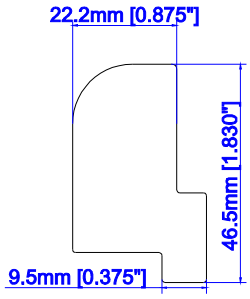


7/8" Traditional Hang Strip

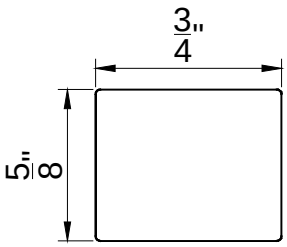
For Waterproof option only



2" Bullnose Z Frame

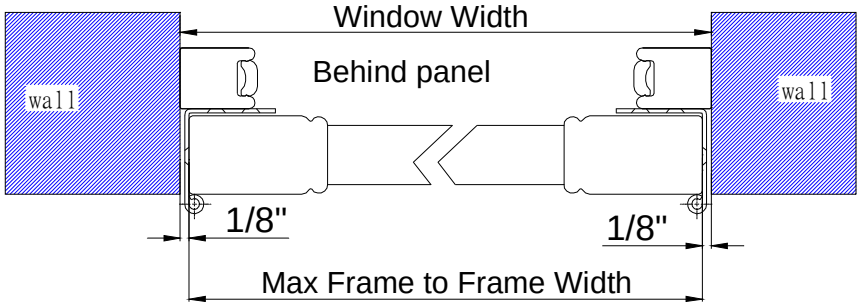


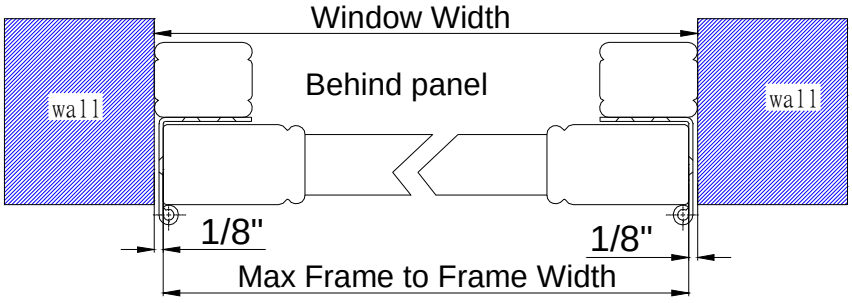
Tilt Out Z Frame



Light Block

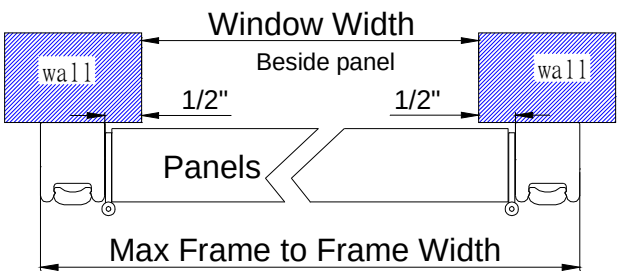
Not available for Waterproof option

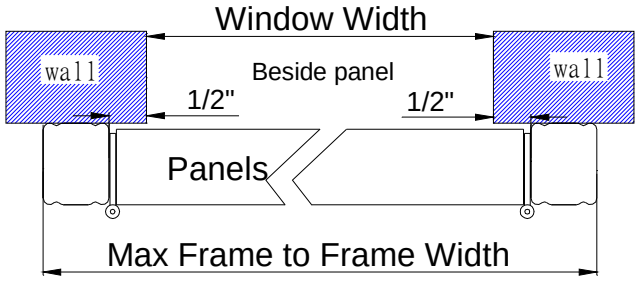




*Some surcharges apply

Frame Styles





Note: Outside mounted hang strips, behind the panel, is not available for all 4 sides ("all around") or 3 sides inverted.

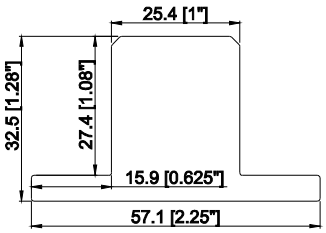
Standard Sill Plate:

The “Standard Sill Plate” is a sill plate that is made from the same frame type that is being used to mount the shutter. Standard Sill Plate is only available for Deco frames and Z frames (except Tilt Out Z frame). The Deco frame or Z frame is cut-down to convert it into a sill plate, and this enables the Standard Sill Plate to be mitered and connected to the side frames for a more seamless look.

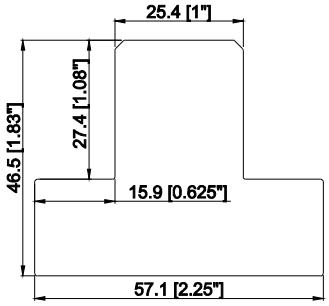
The Standard Sill Plate can be used on any side of the shutter for a non-specialty shape: top, bottom, left or right.

The standard sill plate can be used on a specialty shape shutter on any side that is not curved. Standard sill plate is not available for the following specialty shapes: Circle, Oval, French door, Hexagon and Octagon.

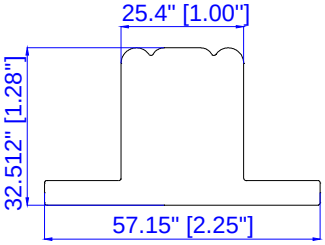
Note: The Standard Sill Plate is the only type of sill plate that can be used in combination with a bottom Sill Cap.



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

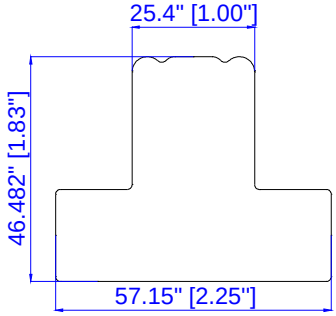


1" Chamfer T Post with 3/4" Light Block (L/Z/HS)



1" T Post with 1/4" Thick Light Block (Deco)

For Waterproof option only

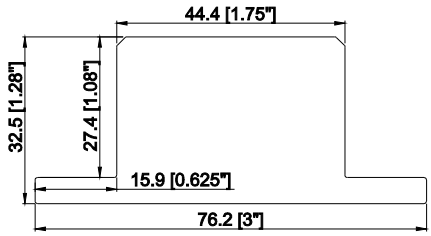


1" T Post with 3/4" Thick Light Block (L/Z/HS/Direct Mount)

For Waterproof option only

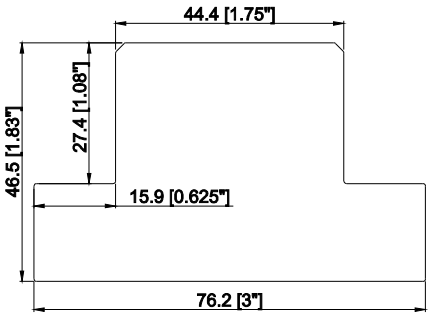
*Some surcharges apply

Frame Styles



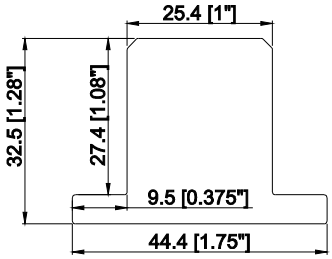
1.75" Chamfer T Post with 1/4" Light Block (Deco)

Not available for Waterproof option



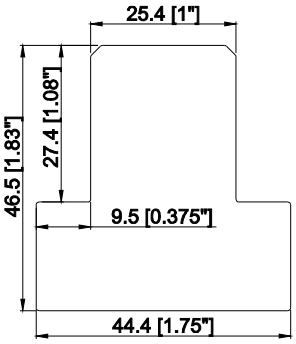
1.75" Chamfer T Post with 3/4" Light Block (L/Z/HS)

Not available for Waterproof option



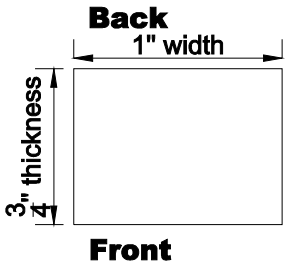
1" Chamfer T Post with 1/4" Thick x 3/8" Wide Light Block (Deco)

Not available for Waterproof option

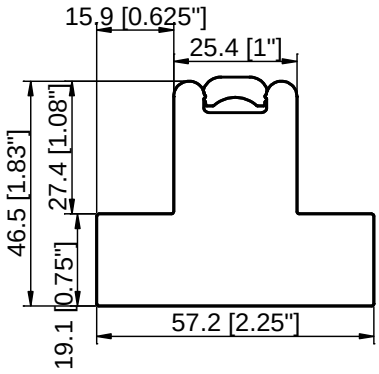


1" Chamfer T Post with 3/4" Thick x 3/8"Wide Light Block (L/Z/HS)

Not available for Waterproof option

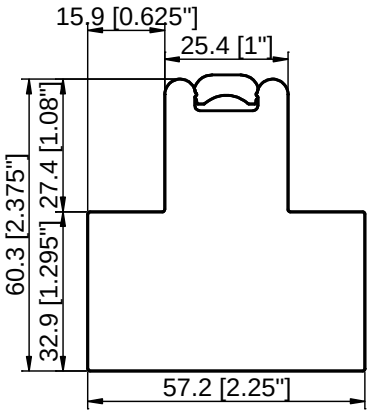


1" * 3/4" Post(No light block)



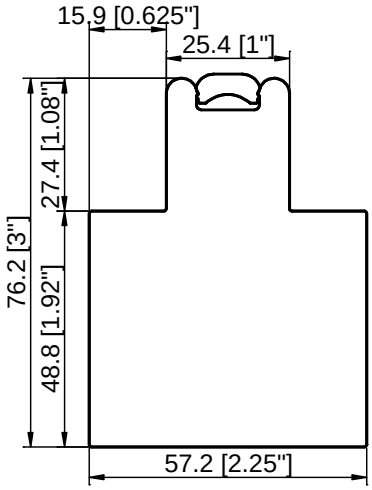
1" T Post with Insert with 3/4" Light Block

Not available for Waterproof option



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

Not available for Waterproof option



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

Not available for Waterproof option

Note: 1" Chamfer T Post with 3/4" Light Block, 1 3/4" Chamfer T Post with 3/4" Light Block, 1" Chamfer T Post with 3/4" Thick x 3/8" Wide Light Block, 1" T Post with 3/4" Thick Light Block, 1" T Post with Insert with 3/4" Light Block, 1" T Post with Insert with 1 5/16" Light Block, 1" T Post with Insert with 1 15/16" Light Block and Custom Chamfer T Post with 3/4" Thick Light Block are not available for all Deco frames and L frames with 1/4" Light Block.

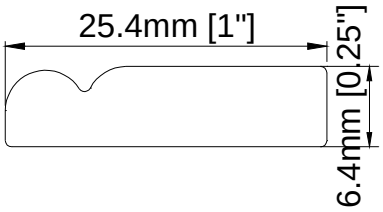
*Some surcharges apply

Frame Styles

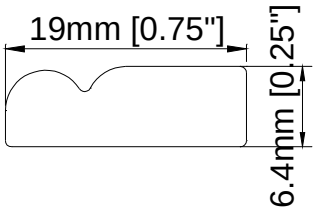
○ Custom width* up to 7½ “for T Posts (Made of Wood), and not available for Waterproof option

- Size limits (7 1/2”)
- Available for composite but it will be made from wood for non-Waterproof option;
- That a surcharge applies and customers should refer to their shutter pricing
- Any limitations

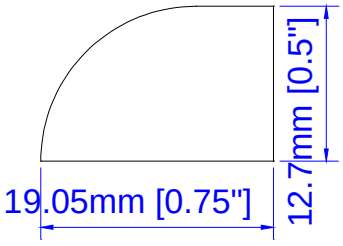
Note: The 1”x3/4” Post (No Light Block) is only available for Direct Mount. And no hardware will be supplied to install it on the existing window opening.



Scribe Trim 1



Scribe Trim 2

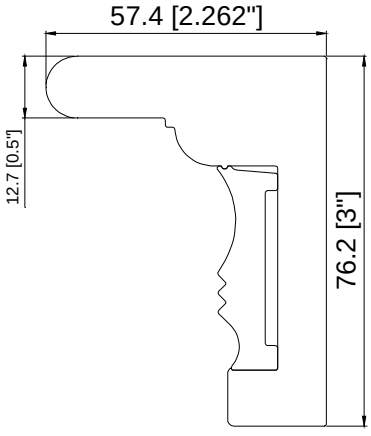


Quarter Round

Not available for Waterproof option

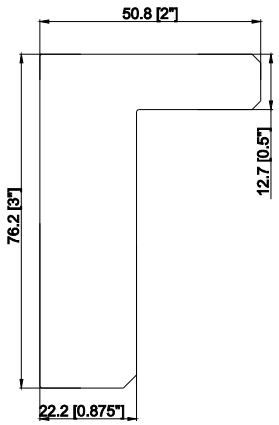
Note: Quarter Round will be made in Wood for non waterproof option.

Sill Frames- For use where there is no existing sill



3" Deco Sill Frame

Not available for Waterproof option



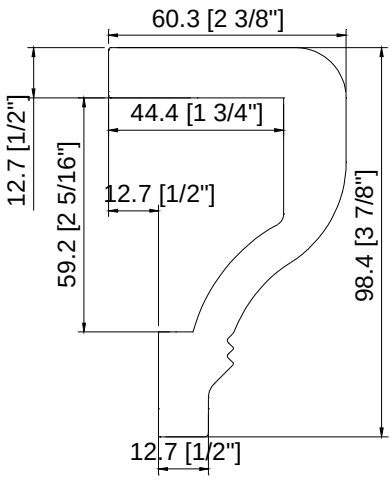
Mission sill Frame

Not available for Waterproof option

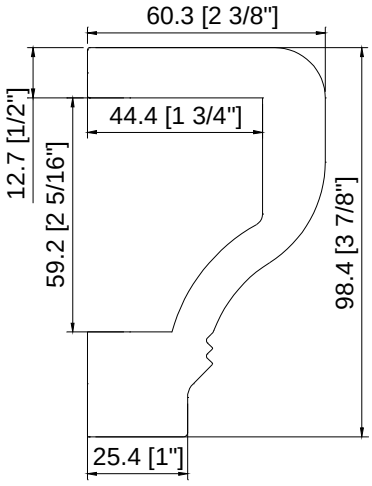
*Some surcharges apply

Frame Styles

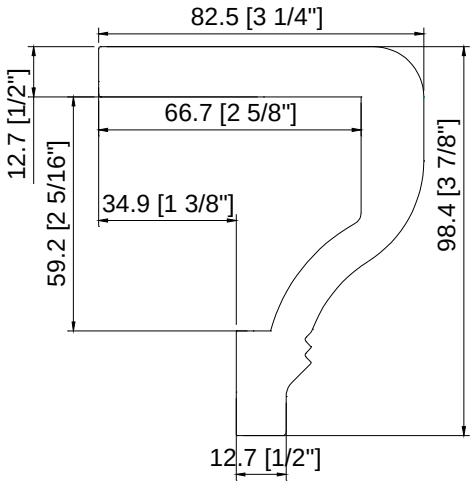
Sill caps-Used to cover existing sills



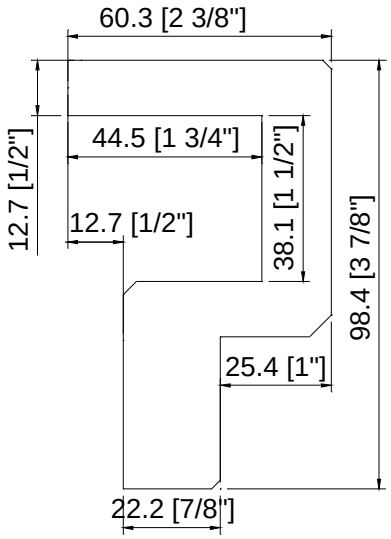
Designer Sill Cap (D/HS)



Designer Sill Cap (L)

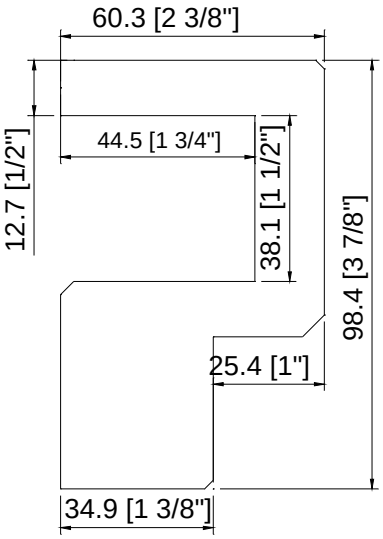


Designer Sill Cap (Z)



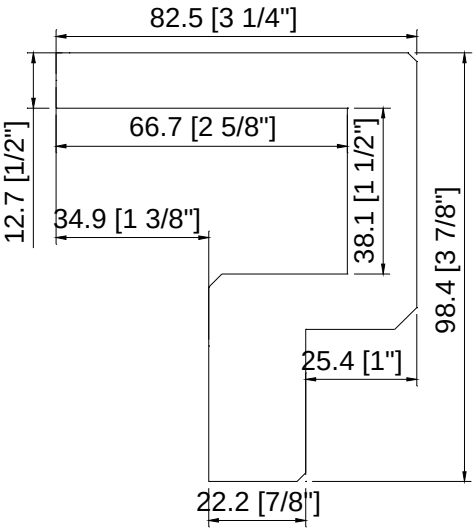
Mission Sill Cap (D/HS)

Not available for
Waterproof option



Mission Sill Cap (L)

Not available for
Waterproof option

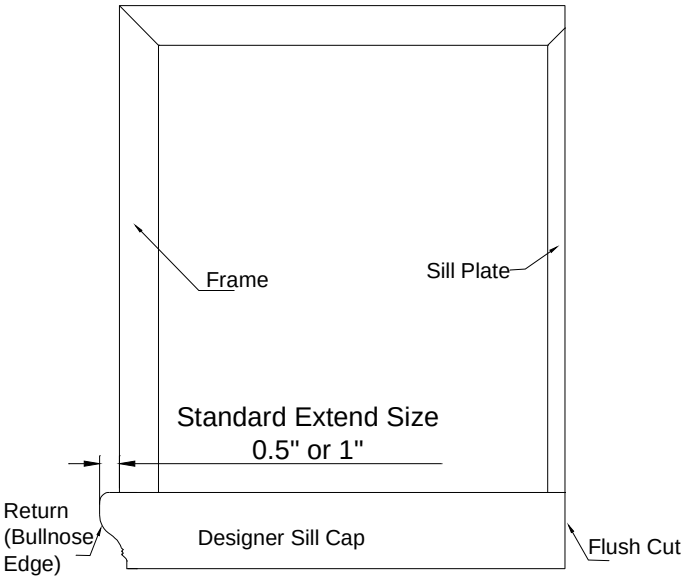


Mission Sill Cap (Z)

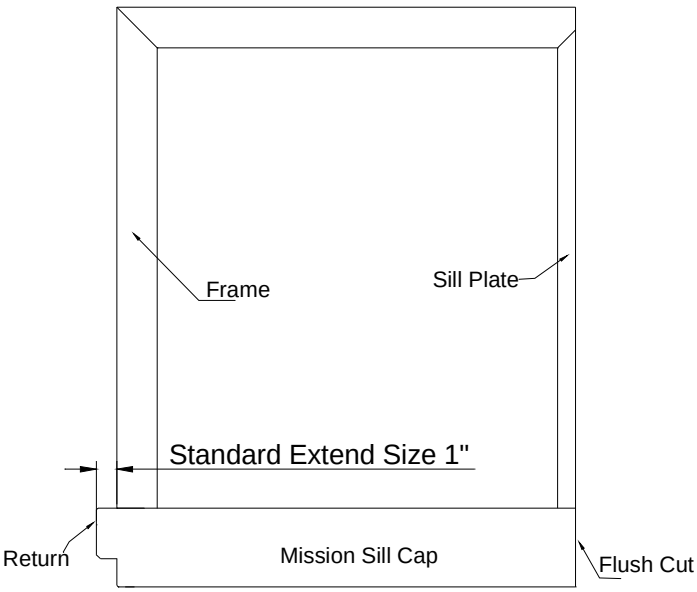
Not available for
Waterproof option

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

Frame Styles



Please note that by **DEFAULT: the Designer Sill Cap will be flush-cut and will not have a Return (bullnose edge) on the side(s) of the shutter th at has a Sill Plate at the left and/or right side(s).**



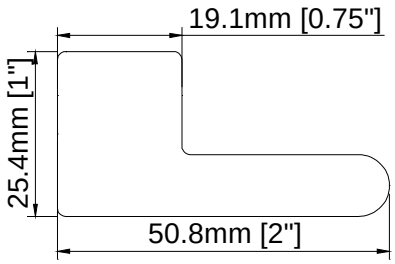
Please note that by **DEFAULT: the Mission Sill Cap will be flush-cut and will not have a Return on the side(s) of the shutter that has a Sill Plat e at the left and/or right side(s).**

Not available for Waterproof option

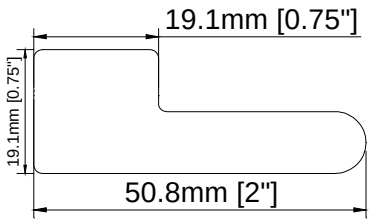
Left side frame situation	**Right side frame situation**	**judge extend size on each side for Designer Sill Cap & Mission Sill Cap**	**Notes**
Frame	Frame	Calculation= (Existing sill width + 0.625" x 2 - MFF width) / 2	When the customer indicates the existing sill width for the Designer Sill Cap, and the custom extended sill width is less than the standard: ½" extend on each side (after calculation), then the standard ½" extend on each side will be used. When the customer indicates the existing sill width for the Mission Sill Cap, and the custom extended sill width is less than the standard: 1" extend on each side (after calculation), then the standard 1" extend on each side will be used.
Frame	Sill Plate	Calculation= Existing sill width + 0.625" - MFF width	
Sill Plate	Frame	Calculation= Existing sill width + 0.625" - MFF width	
Sill Plate	Sill Plate	Close the Existing Sill Width field	Designer Sill Cap & Mission Sill Cap will be flush cut on both ends

Frame Styles

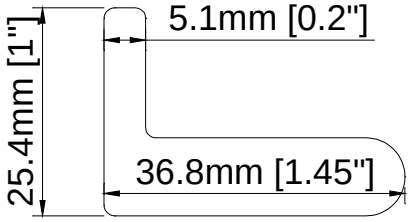
Sill Plates- Used with existing sills



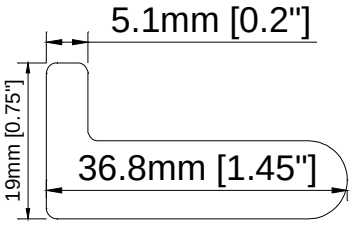
2" Sill Plate with 5/8" Light Block (L/Z)



2" Sill Plate with 3/8" Light Block (L/Z)

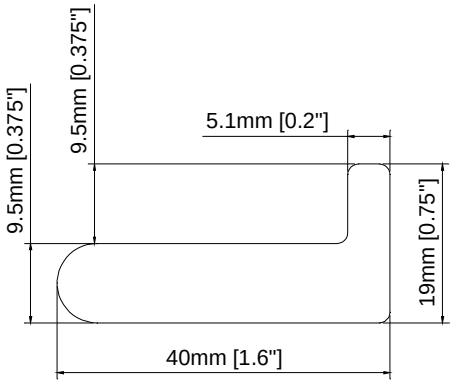


1.5" Sill Plate with 5/8" Light Block (Camber Deco)



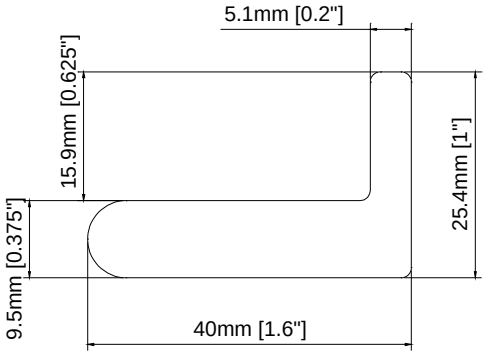
1.5" Sill Plate with 3/8" Light Block (Camber Deco)

For Waterproof option



1.6" Sill Plate with 3/8" Light Block

For Waterproof option



1.6" Sill Plate with 5/8" Light Block

(All Deco & L frames with 1/4” light block) - For Non-waterproof option

For 1.5”/ 1.6” / 2” sill plate with 5/8” (or 3/8”) light block:

- Regular shutters: Available for top sill and bottom sill on 2-sided and bottom sill on 3-sided;
- 3 sides Inverted frame: these sill options can be used at the top only.
- Café shutters: Available for bottom sill;
- Specialty shutters: Not available for shapes below:

Eyebrow Sunburst, Elongated Eyebrow Sunburst, Half Round Sunburst, Half Round w/ Horizontal Louvers, Left Quarter Round Sunburst, Right Quarter Round Sunburst;

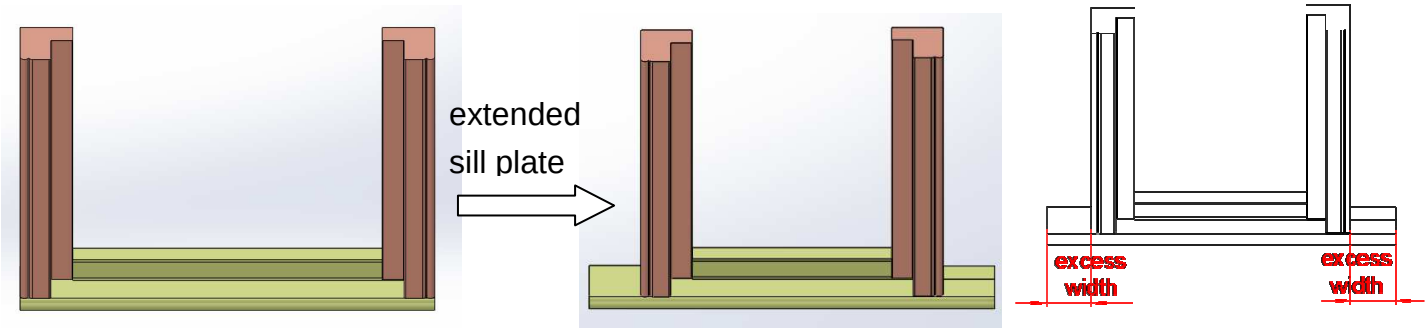
Hexagon, Octagon, Circle, Oval;

Triangle with Horizontal Louvers, Triangle Sunburst and French door.

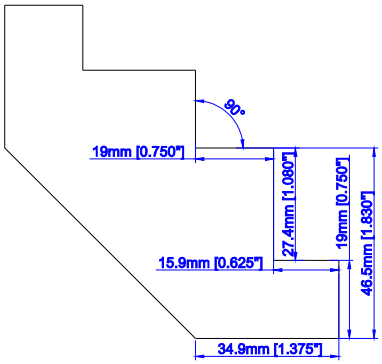
*Some surcharges apply

Frame Styles

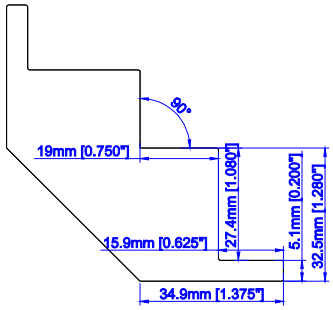
For 1.5”/ 1.6” / 2” sill plate with 5/8” (or 3/8”) light block, when an extended sill plate is requested, the excess width will be divided evenly on both sides, take the following drawing as an example for reference:



Standard Corner & Bay Posts

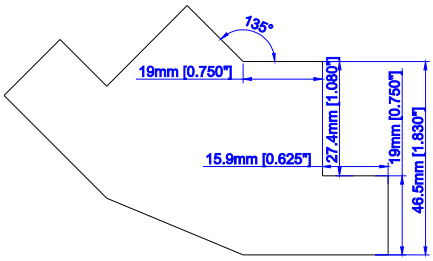


Corner Post with 3/4"
Light Block (L/Z/HS)

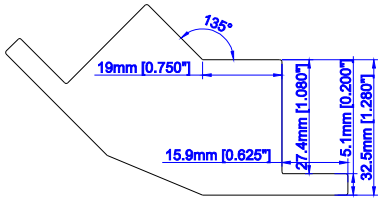


Corner Post with 1/4"
Light Block (Deco)

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



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



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

Also available

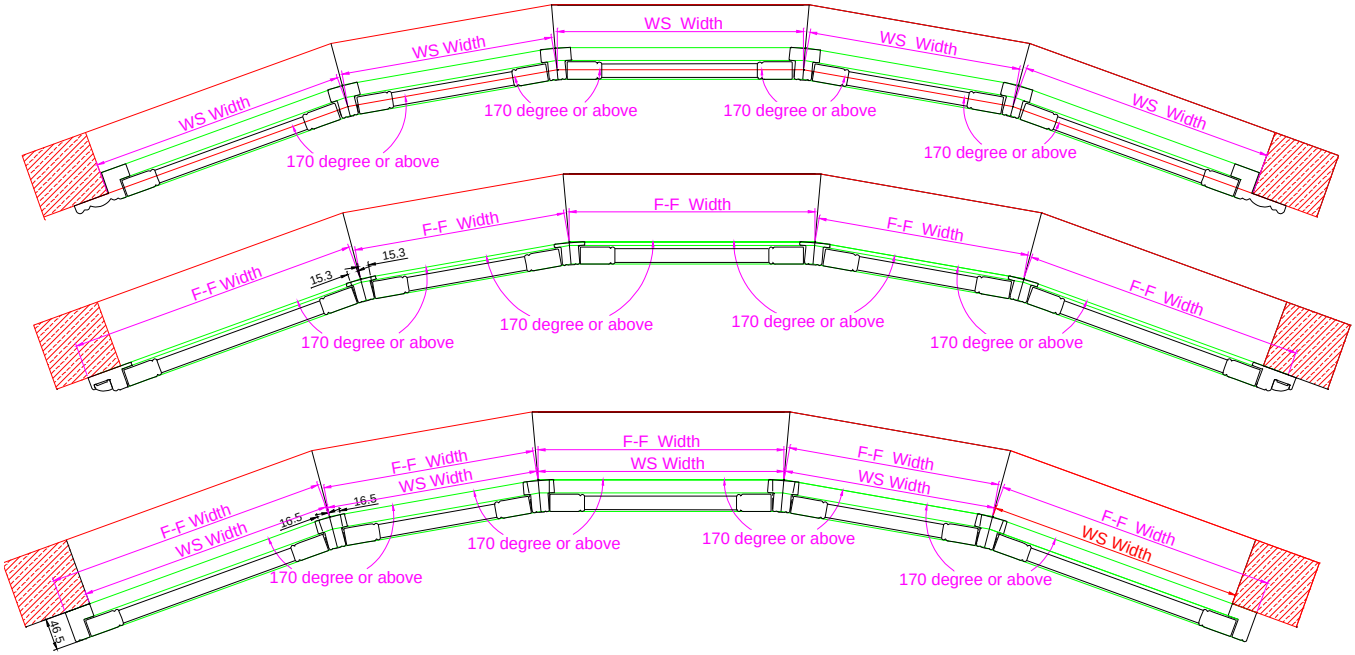
○ Custom angle bay posts*

*Some surcharges apply

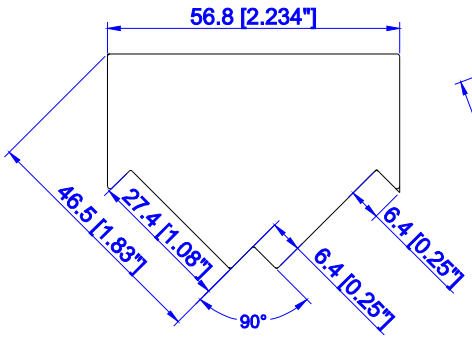
Frame Styles

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) and Waterproof option, bay post will be used.
- Bay post will be used when the degrees of all bay posts in a Bay Window Shutter with both <170 degree and >= 170 degree at the same time.

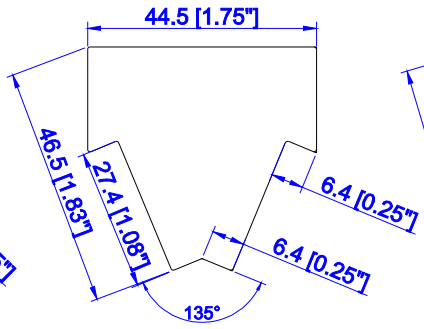


Slim Fit Corner & Bay Posts



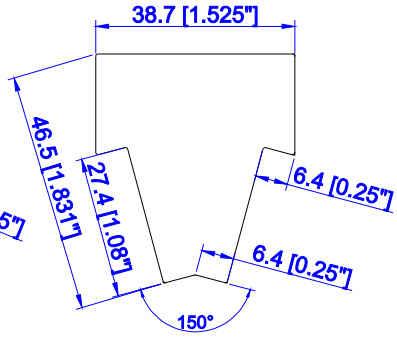
Slim Fit Corner Post for 90 Degree (L/Z/HS)

Not available for Waterproof option



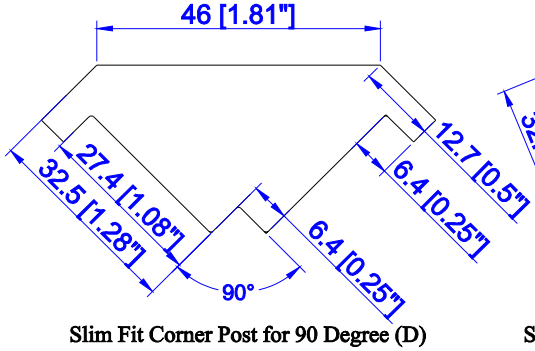
Slim Fit Bay Post for 135 Degree (L/Z/HS)

Not available for Waterproof option



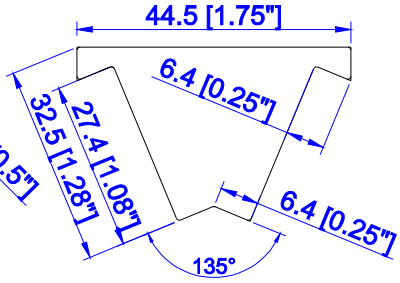
Slim Fit Bay Post for 150 Degree (L/Z/HS)

Not available for Waterproof option



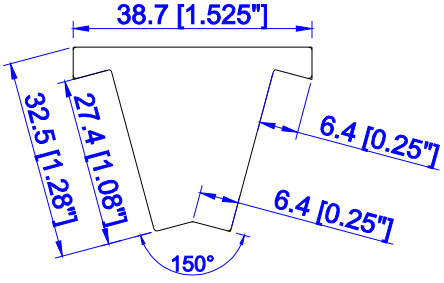
Slim Fit Corner Post for 90 Degree (D)

Not available for Waterproof option



Slim Fit Bay Post for 135 Degree (D)

Not available for Waterproof option



Slim Fit Bay Post for 150 Degree (D)

Not available for Waterproof option

*Some surcharges apply

Frame Styles

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.

- Slim Fit Posts are available in 90, 135 and 150 Degrees only.
- All Bay posts, Corner posts and Slim Fit Posts are made of Wood for non-Waterproof option; All Bay posts & Corner posts are made of ABS for Waterproof option.

In order to better match corner windows / bay windows:

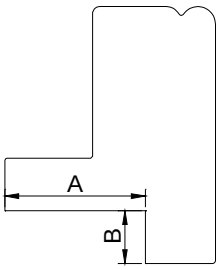
- **For non sample orders, please note that corner windows must have the same:**
  - Corner Post Type (Standard or Slim Fit)
  - Color
  - Hinge Options (Hinge Color, Hinge Size)
  - Louver (Louver Size, Adjustable Louver, Fixed Louver Options)
  - Frame Type
  - Mount Type
  - Frame Extension
  - Top Sill Options
  - Bottom Sill Options
  - T-Post Options (T-post Extension，T-post Light Block)
  - Measurement Type (Window Size or Max Frame to Frame)
  - Height
  - Stile Type and Stile Profile
  - Tilt Type
  - Divider Rail Options (Divider Rail Location, Allow Deviations or Exact Location)
  - Double-Hung Options (Double hung Location, Horizontal T-post)
  - Split Tilt Options (Split Tilt Location, Allow Deviations or Exact Location)
  - PerfectTilt Options (PerfectTilt G4: Yes or No)

- **For non sample orders, please note that bay windows must have the same:**
  - Bay Post Type (Standard or Slim Fit)
  - Color
  - Hinge Options (Hinge Color, Hinge Size)
  - Louver (Louver Size, Adjustable Louver, Fixed Louver Options)
  - Frame Type
  - Mount Type
  - Frame Extension
  - Top Sill Options
  - Bottom Sill Options
  - T-Post Options (T-post Extension，T-post Light Block)
  - Measurement Type (Window Size or Max Frame to Frame)

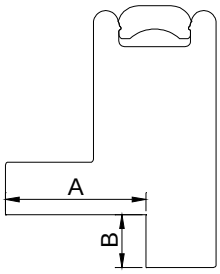
*Some surcharges apply

Frame Styles

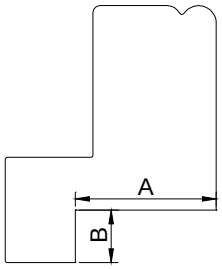
- Height
- Stile Type and Stile Profile
- Tilt Type
- Divider Rail Options (Divider Rail Location, Allow Deviations or Exact Location)
- Double-Hung Options (Double hung Location, Horizontal T-post)
- Split Tilt Options (Split Tilt Location, Allow Deviations or Exact Location)
- PerfectTilt Options (PerfectTilt G4: Yes or No)



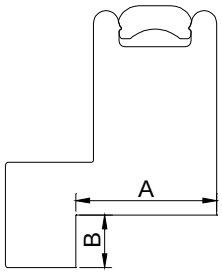
Notch Out
Beaded L Frame (A) *



Notch Out
Vintage L Frame (A) *



Notch Out
Beaded L Frame (B) *



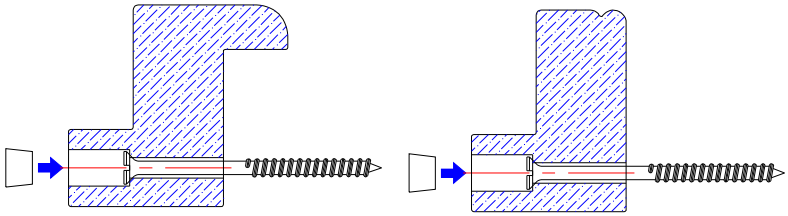
Notch Out
Vintage L Frame (B)

Limitation for the Notch Out Size:
(for Woodlore Plus Non-waterproof option);
A<=1"; B<=1/2" for Beaded/Vintage L frame;
A<=1"; B<=1" for Beaded/Vintage L frame with 1/2” Buildout;
A<=1"; B<=1 5/8” for Beaded/Vintage L frame with 1” Buildout;

Note: Notch Out L frames cannot be ordered with sill options, including 2” Sill Plate, Sill Frames, or Sill Caps (due to installation issues that would result).

Note: Notch Out L frame is not available for L frames w/ ¼” light block.

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

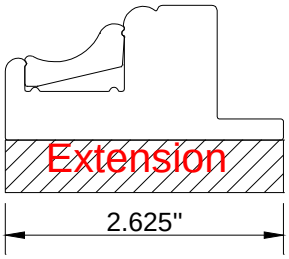


Please note that the prefilled hole and the plug will not be a 100% complete fit, but that would not affect the performance of the screw. Shutters can’t be remade solely because of this issue.

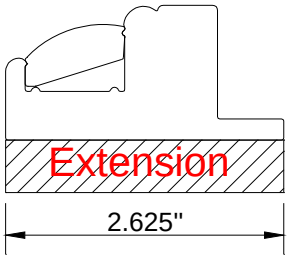
*Some surcharges apply

Frame Styles

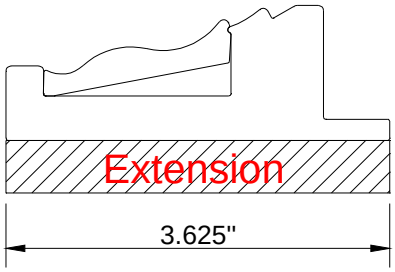
Extension for Deco Frame* (Default to have full extension):



2"Classic Deco Frame with extension



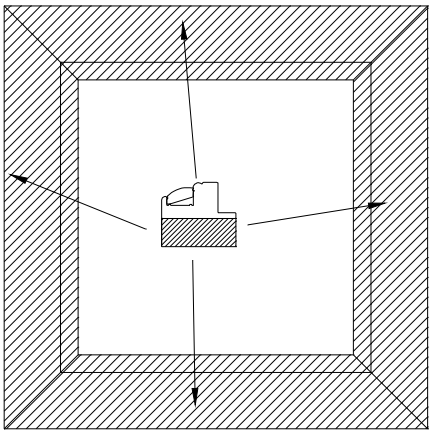
2"Camber Deco Frame with extension



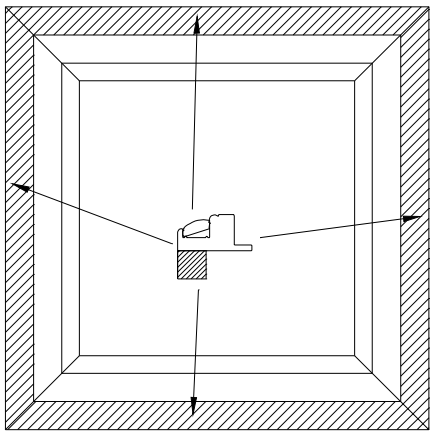
3"Ridge Deco Frame with extension

Note: Custom extensions* are available for Deco Frames, L frames & Hang strips (OM, beside the panel) & T posts, when the extension thickness is more than 2", the extension will not be attached to the frames and/or T posts.
Custom extensions* are available for the lips of all Z frames except Tilt out Z frames, when the extension thickness is more than 1", the extension will not be attached to the Z frames.

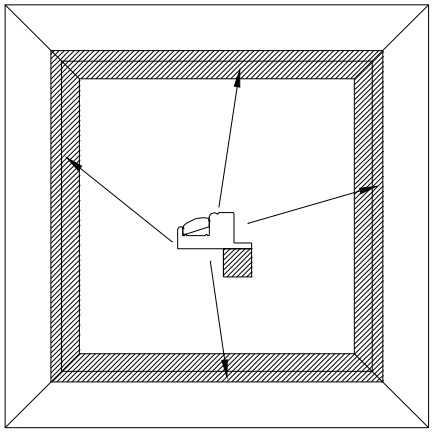
The extension can be on all sides of the frame, or individual sides can be selected if the extension is not needed on all sides.
See the following drawings below as examples:



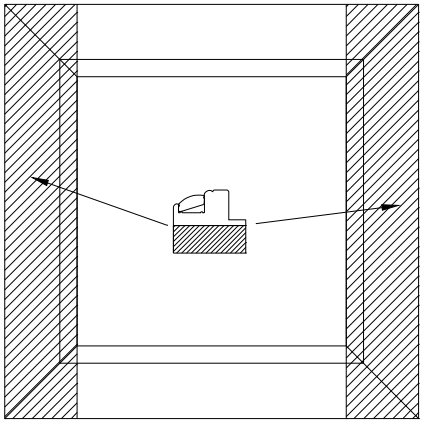
4 sides frames with xxx" full extension



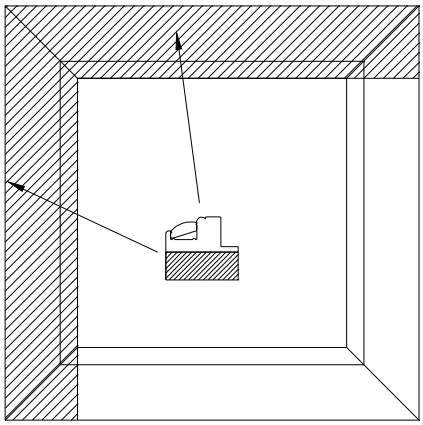
4 sides frames with xxx"wide extension, flush with outside edge of frame



4 sides frames with xxx"wide extension, flush with inside edge of frame



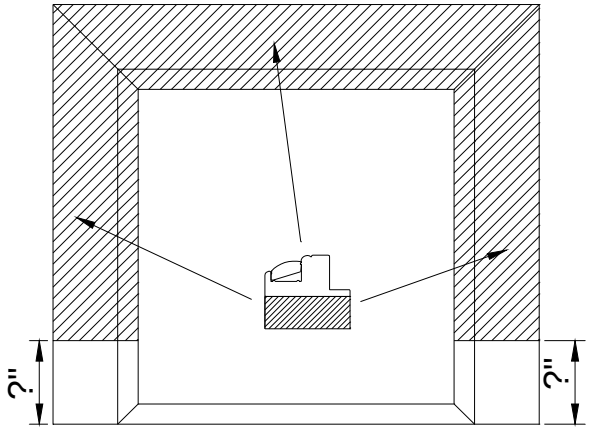
Left and right frames with xxx" full extension



Left and top frames with xxx" full extension

*Some surcharges apply

Frame Styles



xxx" full extension of left and right frames
start from ?", no extension on bottom frame

Notes:

- Add extension side (e.g. left, right, top, bottom) to distinguish.
- Add frame location (e.g. left, right, top, bottom) to instead of No. of sides to distinguish.
- Apply to regular shutters and café shutters.
- Apply to all frame types except Hang Strip (behind panel) and Tilt Out Z frame.
- For non-full extension size, please state that the extension is flushed with outside / inside edge of frame.
- When there are tiles or obstacles that prevent all sides of frame to add extension, please state that where to start adding the extension.

- Standard Filler Strips (width x depth) for non-waterproof option:

1" x 3/4"	1" x 2 15/16"	3/4" x 1 1/2"
1" x 1 3/16"		1" x 1 1/2"
1" x 1 9/16"	3/16" x 1 1/2"	1 3/16" x 1 1/2"
1" x 2"	3/8" x 1 1/2"	1 3/8" x 1 1/2"
1" x 2 3/8"	9/16" x 1 1/2"	1 9/16" x 1 1/2"

- Standard Filler Strips (width x depth) for waterproof option:

1/8" x 9/16"	3/16" x 1 3/4"	1 1/4" x 3/8"
1/8" x 3/4"	3/16" x 2 1 /2"	1" x 1 3/16"
1/8" x 1"	1 3/16" x 1 9/16"	1" x 1 9/16"
1/8" x 1 3/16"	1 9/16" x 1 9/16"	1" x 2"
1/8" x 2 3/8"	13/16" x 13/16"	1" x 2 3/8"
3/16" x 9/16"	3/4" x 3/4"	1" x 2 15/16"
3/16" x 1"	1" x 3/4"	

Note:

1. The width or depth of Custom filler strip / Standard filler strip can’t be less than 1/8”.
2. The width or depth of Custom filler strip / Standard filler strip can’t be greater than 7 7/8” for non-waterproof option.

*Some surcharges apply

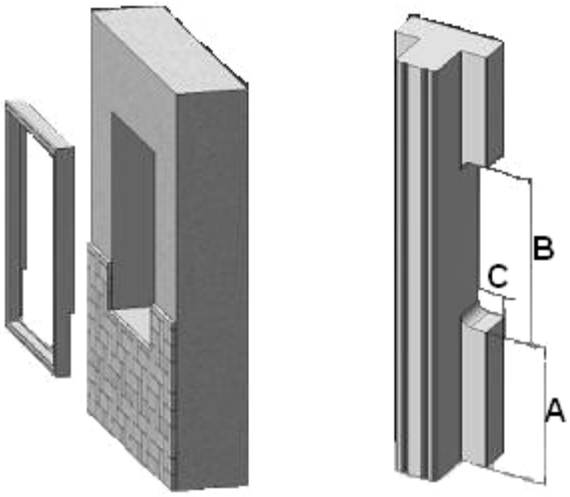
Frame Styles

3. The width or depth of Custom filler strip / Standard filler strip can't be greater than 6 11/16 " for waterproof option.
4. The width and depth of Custom filler strip / Standard filler strip can't be greater than 3 15/16" at the same time.

Notch out*:

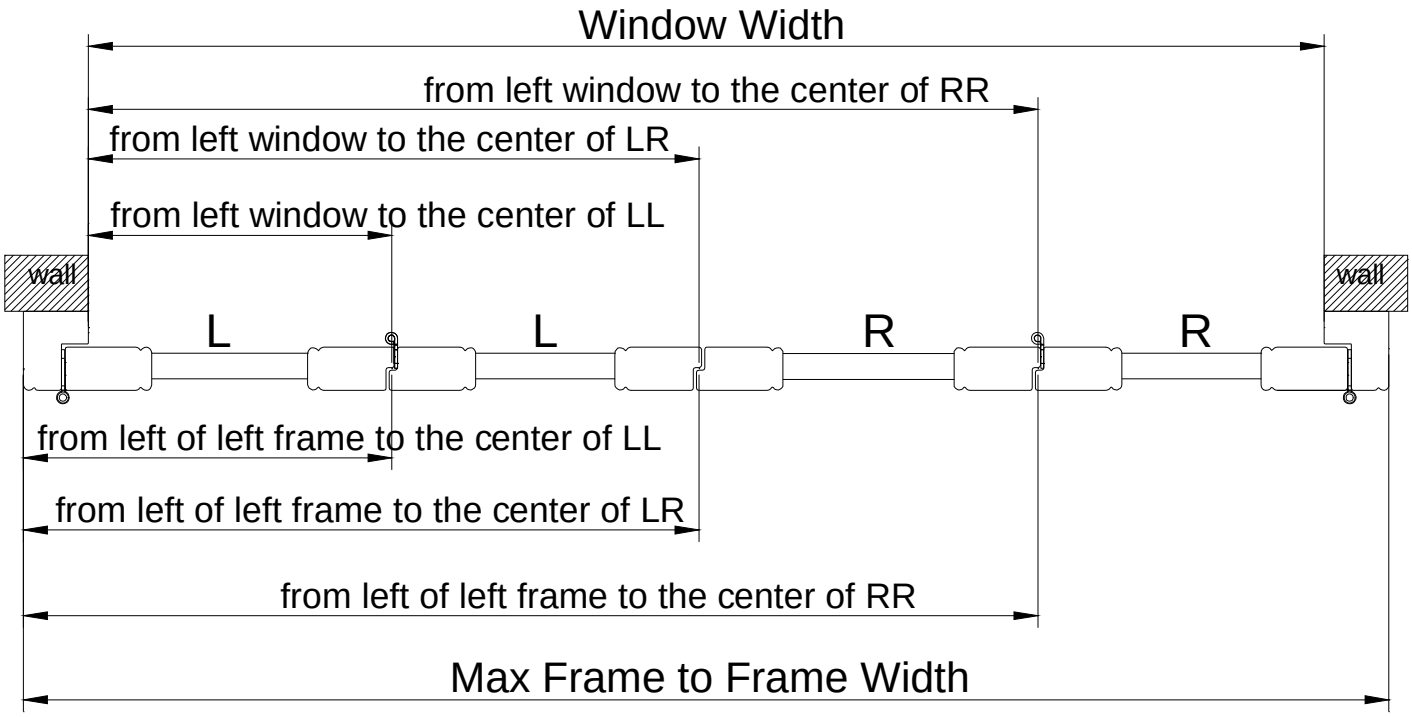
- o L Frame
- o T Post

Specify dimensions in special instruction box.



Uneven Panel Width:

Take Beaded L Frame outside mount as an example:

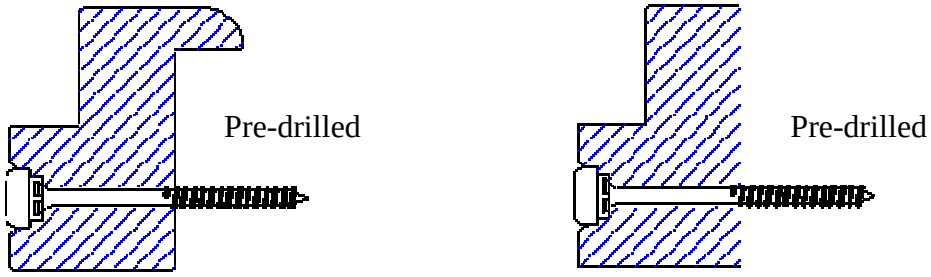


*Some surcharges apply

Frame Styles

Default principles:

1. The coordinating T-post for 1 1/2” Deep Bullnose Z frame & Deep Plain L frame will be 1” Chamfer T post W 1/4” light block (Deco) or 1” T post W 1/4” light block (Deco), T-post light block depth more than 1/4” is not available.
2. 1 1/2” Deep Bullnose Z frame & IM Deep Plain L frame will **NOT** be pre-drilled unless Pre-drilled “Yes” was specified in the order.



1 1/2" Deep Bullnose Z frame Deep Plain L frame

3. OM Deep Plain L frame will **NOT** be pre-drilled.
4. Regarding shutter with horizontal T-post type issue:

1). If Woodlore Plus-Waterproof with **Beaded** vertical T-post is selected, the horizontal T-Post type will be a Beaded T post; Otherwise, horizontal T-Post type will always be Chamfer T post by default.

2). For Woodlore Plus-non Waterproof, Horizontal T-Post type will always be the Chamfer T post unless otherwise specified.

3). For Double Hung shutter with a horizontal T post, the face width of the horizontal T post defaults to 1” for Woodlore Plus-Waterproof, while the face width of the horizontal T post defaults to 1 3/4” for Woodlore Plus-non Waterproof.

General Product Specifications

Description	**Minimum**	**Maximum**	
		Non-Waterproof Option	**Waterproof Option**
Single Panel Width (Regular)	6"	24" for 1 ⅞" louver 36" for 2½ ", 3", 3½", 4½" louver	24" for 1 ⅞" louver 31" for 2½ ", 3" louver 36" for 3½", 4½ " louver
Single Panel Width (Bifold)	6"	24"	24"
Single Panel Width (Bifold Track)	6"	24"	24" for 1 ⅞" louver 26" for 2½ ", 3", 3½", 4½" louver
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 freight, frames longer than 142 7/8" will be spliced.** **For orders shipped by air freight, frames longer than 120" will be spliced.)**	
Shutter Height	N/A	120" + frame	

Divider rail is required for panel heights over 78" for non-waterproof option.
Divider rail is required for panel heights over 72" for waterproof option.
Standard divider rail size is 3".
Please note the standard top/bottom rail size should be within 2.75"~6.5". For regular shutters, the step for the rail size is 1/8".

Shutters to be installed where there is no bottom supports are not available.

Shutters without bottom supports may sag and deform, including:
1. Shutters with a bottom gap over 0.1";
2. Shutters with no frame or existing bottom sill to support the panel (or shutter has bottom frame/existing sill, but the panel is frequently left in the open position).

Side by Side / Match Line Number:

When **Side by Side** is selected, it is solely to match top or bottom rails and the number of hinges will also be matched when the panel heights are within +/- 2”.

Match with Previous WO#:

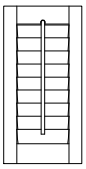
Match with Previous WO# matches the color if available. (Note: Matching rail sizes and louver counts are subject to product specification limitations.)

- For Pure White color and custom colors, color can only be matched for up to 1 year from original order date
- For non-Pure White color and non-custom colors, color can only be matched for up to 5 months from original order date.

Tilt Rods

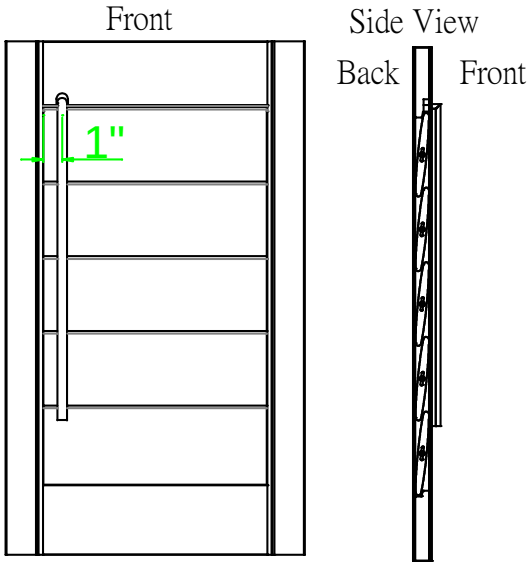
Standard Tilt Rod

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

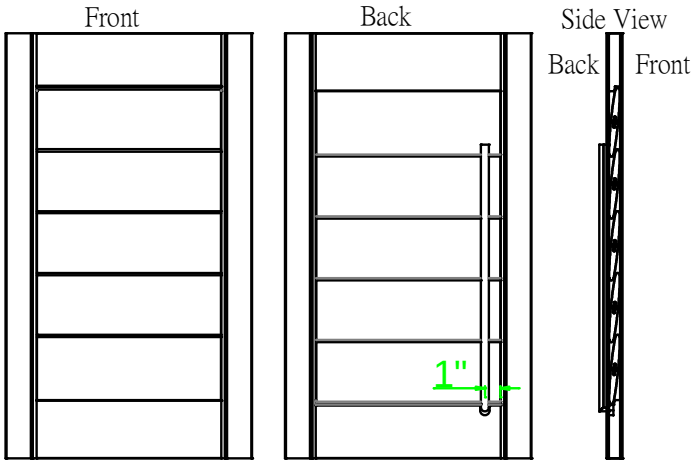


Offset Tilt Rod*

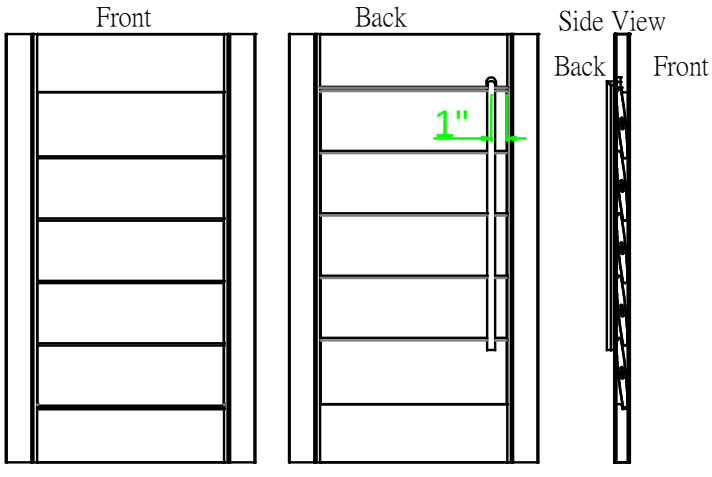
Default Location: On the front side of the panel and at 1” from the louver ends on the hinged side.
Optional location: On the back side of the panel, 1” from the end of the louvers on the hinged side.



Offset tilt rod on the front side of panel,
the louvers dress up from front view



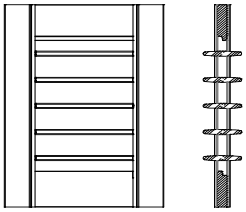
Offset tilt rod on the back side of panel,
the louvers dress up from front view



Offset tilt rod on the back side of panel,
the louvers dress down from front view

*Some surcharges apply

InvisibleTilt® *



Louver tilting system embedded within panel stile. It is not available for $1^{7}/_{8}$" louver. The tilting system is split when the number of louvers exceeds the limits as listed below:

Louver Size	Maximum Possible Louvers	Approximate Panel Height Range
2½"	24	54 3/4" – 61"
3"	19	54 1/4" – 60 1/2"
3½"	16	54 3/4" – 61"
4½"	12	54 3/4" – 61"

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 equally by default unless a custom location is requested.
When split equally is selected, 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.

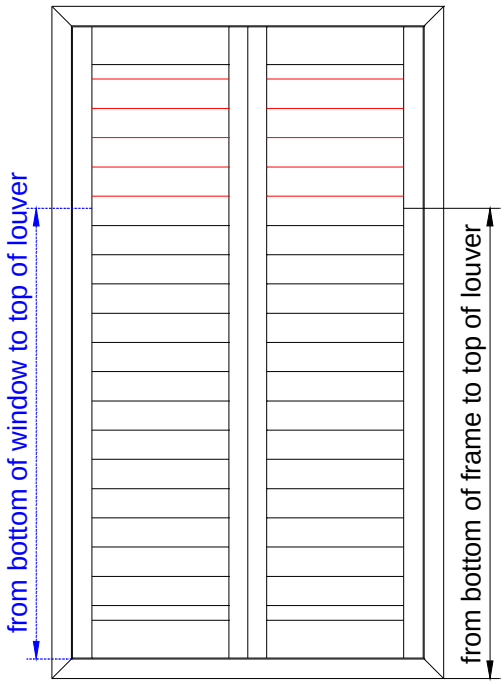
When the customer selects a custom location, the measurement will be as follows (please note that the louvers are in the closed position when measured):
Window size:

— 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.

*Some surcharges apply



Split tilt allowable deviations

Louver Size	Allowable ± Deviation
1 7/8”	3/4”
2½"	1"
3”	1 1/4”
3½"	1½"
4½"	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.

- **Please note that Tilt options (including tilt rod), Split Tilt, Divider Rail, Double Hung, and PerfectTilt™ motorization are not available for panels with one louver. In addition, there will be no mouse hole on a panel or louver section that has only one louver.**
  Panels with one louver may be any of the following:
  a. only one louver on the panel;
  b. only one louver above or below a divider rail;
  c. only one louver above or below a split tilt location;
  d. only one louver on Double Hung top panel or Double Hung bottom panel.

*Some surcharges apply

Divider Rails

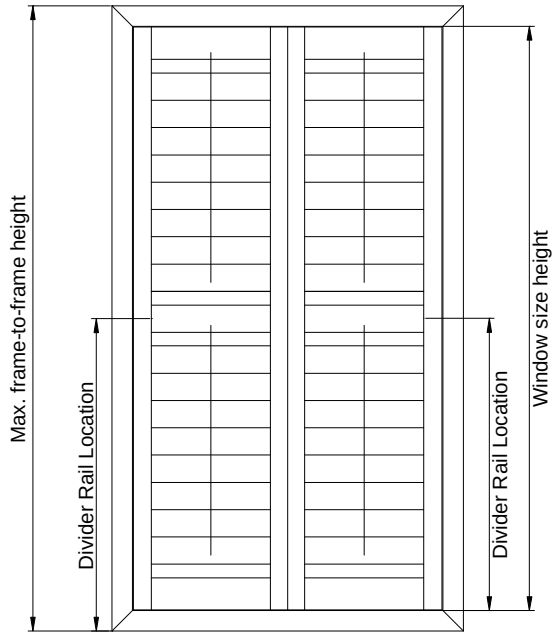
A divider rail is an extra rail in the middle of the panel.
Creates two sections in the panel so louvers can be operated independently.
Strengthens the panel and enhances structural integrity.
Divider rail is required for panel heights over 78” for non-waterproof option.
Divider rail is required for panel heights over 72” for waterproof option.
For tall panels, the divider rail location should be placed within the panel height maximum, so that the remaining panel space above or below the divider rail is not taller than the panel height maximum. If the divider rail is placed too high or too low on the panel, then a 2nd divider rail may be required.

Specifications

Standard size: 3”
Default location: center of the panel unless specified otherwise
If the Divider Rail Location must be accurate, “Exact Location” must be selected or specified when placing an order.

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.
- Between 2 divider rails / 2 split tilt rod locations / 1 divider rail location and 1 split tilt location, there needs to have at least two or more louvers for non-motorization shutters.



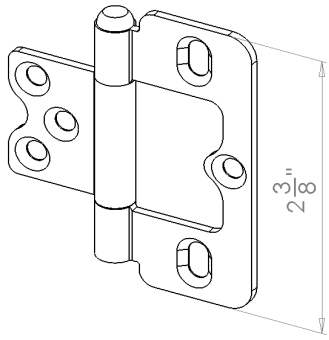
Divider rail allowable deviations

Louver Size	Allowable ± Deviation
1⅞"	¾"
2½"	1"
3”	1 1/4”
3½"	1½"
4½"	2"

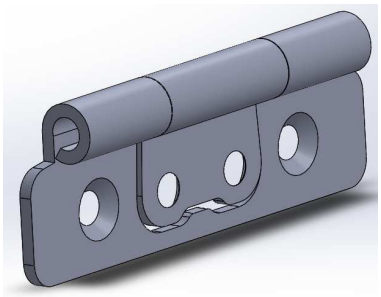
Hardware

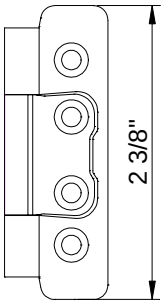
Hinges

2.375” Self-Mortise Hinge

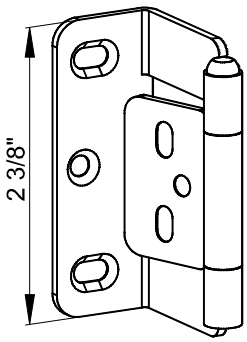


2.375” Bi-fold Hinge

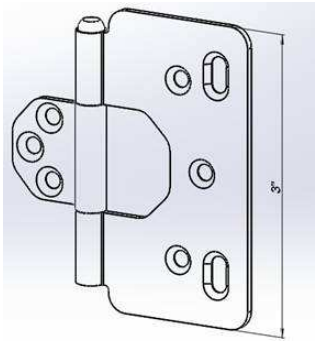




2.375” L Hinge



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.

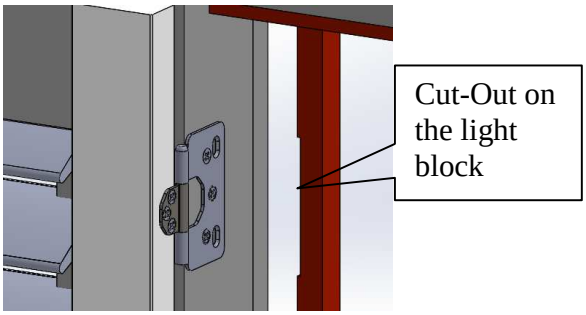
For Waterproof option, regular hinges are only available in Stainless Steel, and Sleeve & Base Plate will be used as catches. Invisible hinges are only available in Pearl-Chrome Plated.

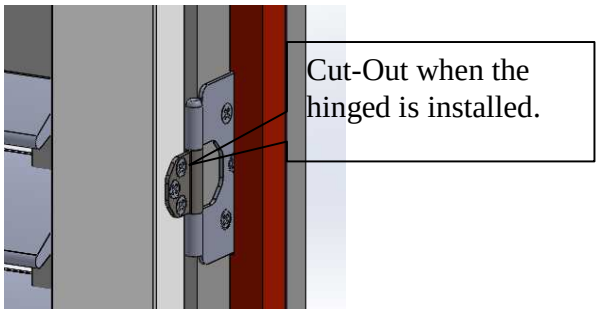
False hinges are not available.

*Some surcharges apply

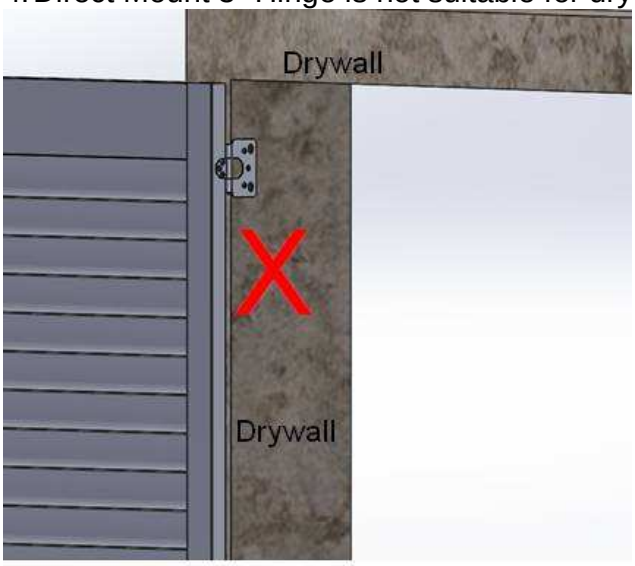
- Direct Mount 3” Hinge:

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;
2. The hinge is only to be installed 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.



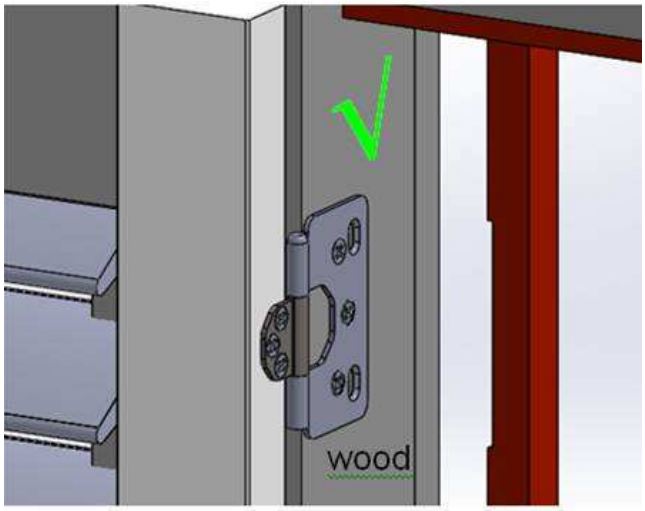


4. Direct Mount 3” Hinge is not suitable for drywall installations.



Direct Mount 3" hinge is not suitable for drywall installations.

It’s not recommended.



It’s acceptable.

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.
4. The invisible hinge is not available with the following specialty shapes: Circle w/ horizontal louvers, Circle sunburst, Oval w/ horizontal louvers, Type E 60 degree French door cutout, and Type F rectangular French door cutout.

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	/
2” Bullnose Z Frame	Y	/
1.5” Bullnose Z Frame	Y	/

*Some surcharges apply

2" Bel Air Z Frame	Y	/
3" Crown Z Frame	N	/
7/8" Vintage Hang Strip	N	/
Traditional Hang Strip(beside the panel)	Y	/
1" 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" T-Post w/3/4" Light Block(for L/Z/HS)	Y	
1" Chamfer T-Post w/ 1/4" Light Block(for Deco)	Y	
1" Chamfer T-Post w/3/4" Light Block(for L/Z/HS)	Y	
1" Chamfer T-Post w/ 1/4" thick 3/8” wideLight 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	available with hinge on BOTH side, for example, RTL.
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	/
Slim Fit Corner Post for 90 Degree(L/Z/HS)	N	
Slim Fit Corner Post for 90 Degree(D)	N	
Slim Fit Bay Post for 135 Degree(L/Z/HS)	N	
Slim Fit Bay Post for 135 Degree(D)	N	
Slim Fit Bay Post for 150 Degree(L/Z/HS)	N	
Slim Fit Bay Post for 150 Degree(D)	N	

Invisible Hinge Qty:

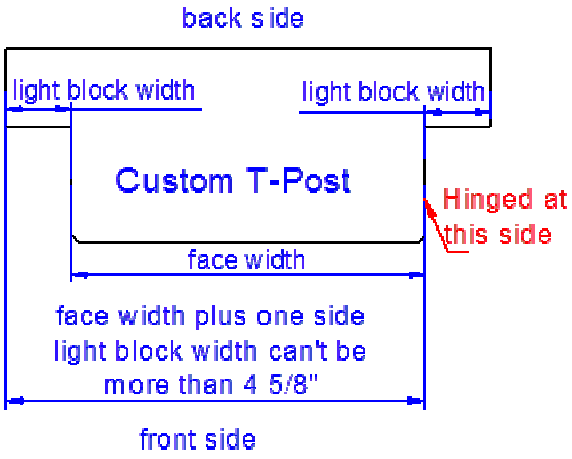
Panel Height (H)	Hinge Qty
H<=48"	2
48"<H<=78"	3
78"<H<=96"	4
96"<H<=120"	5

*Some surcharges apply

Preinstallation:

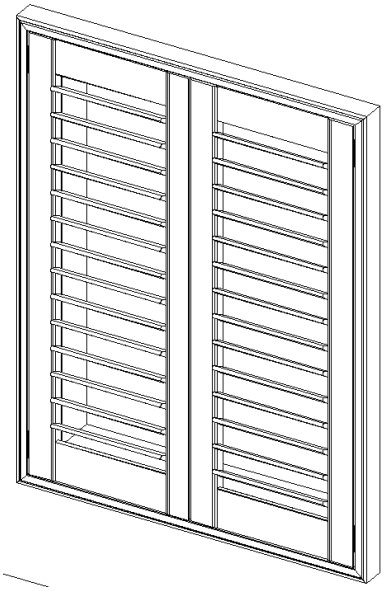
Panels and frames will be packaged individually, and the hinge is preinstalled onto the frame/post, with the screws for the other half part on the panels in the hardware box.

Note: If Custom T-posts need to install Invisible Hinge, the size of Custom T-post face width plus one side light block width can't be more than 4 5/8"; Please see drawing for reference.



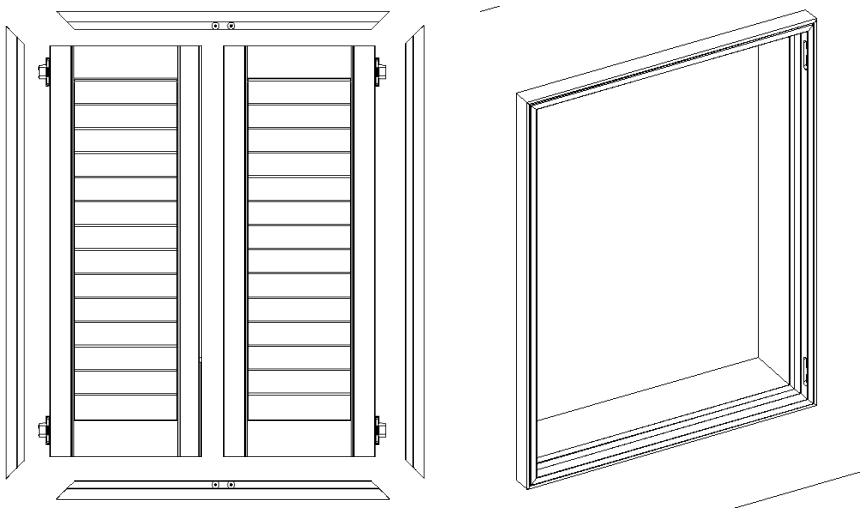
Installation Instructions for the Invisible hinges

Take L Frame as an example:

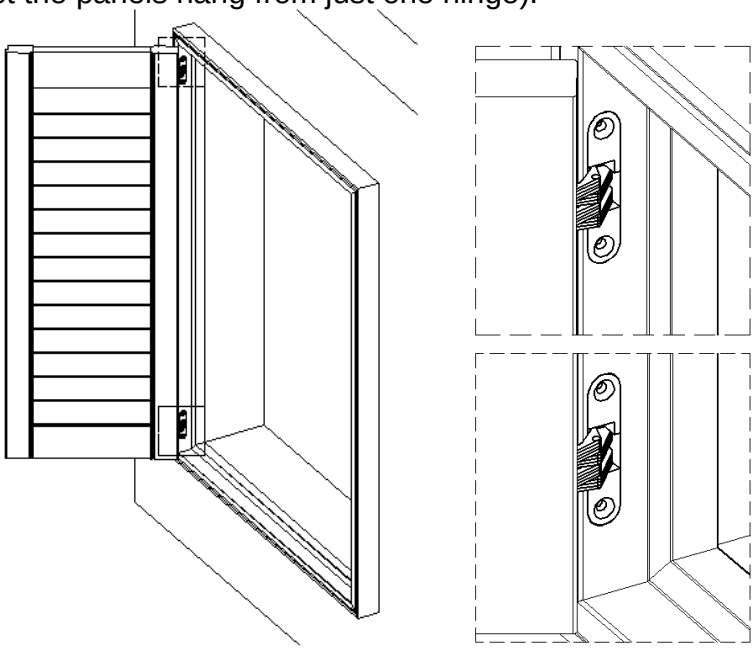


1). Remove the corresponding panels and frames from their packaging and match the panels with the correct frames.

Install the frames on the corresponding windows and make sure they are square (diagonals are equal)

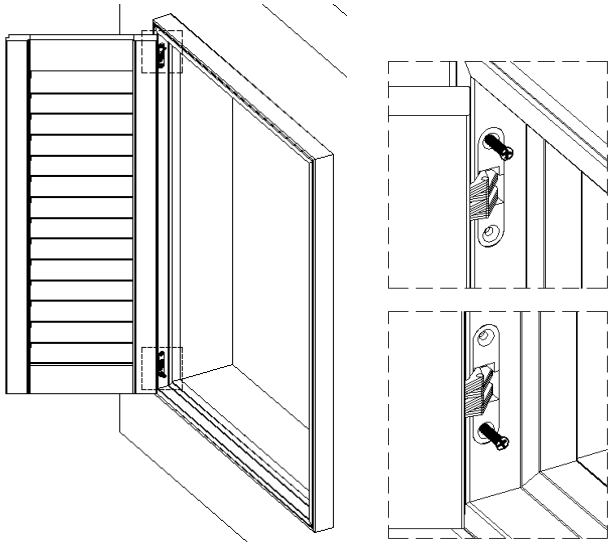


2). Please insert **ALL of** the Invisible hinges on the panel into the hinge holes on the corresponding frames prior to trying to secure any single hinge. This may require the assistance of a second person to hold the panel to prevent the hinges from sliding out of their slots while the screws are secured (Do not let the panels hang from just one hinge).

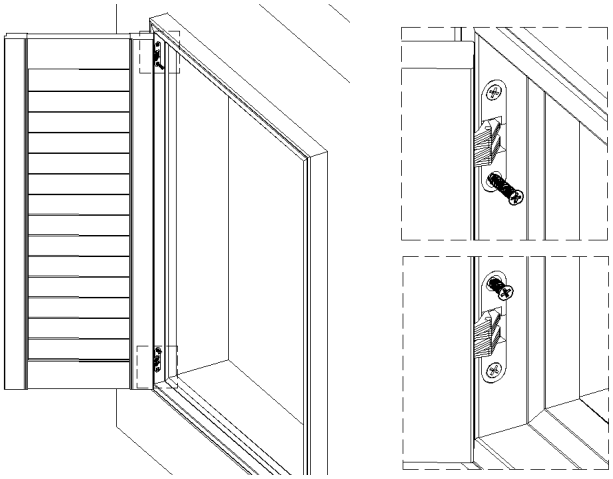


3).To properly secure the panels, first please tighten the upper screw of the uppermost top hinge and the lower screw of the lowest hinge. Close the panel to check whether the shutter closure is normal and the gap is uniform.

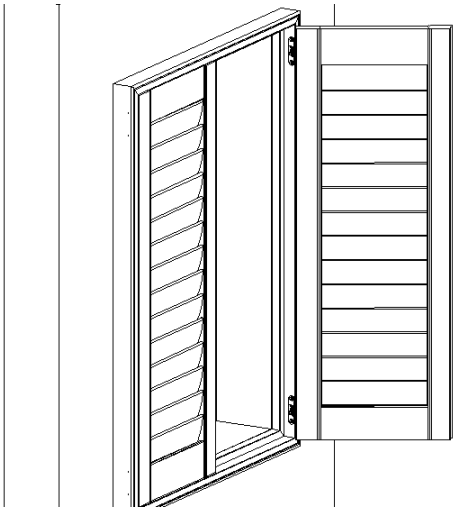
Note:
a) When locking the screw, again it is important to prevent the invisible hinges from sliding out of their slots.
b) Only the screws provided in the hardware box may be used and they cannot be replaced by other screws.



4). When the closure gap is uniform, secure the remaining screws.



5). Install the remaining panels in the same manner.

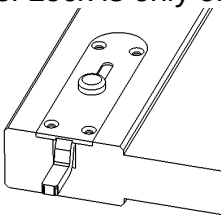
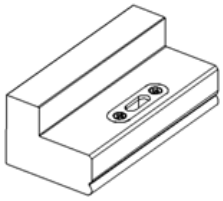


Panel Lock: (not available for 1.625" Stile)

Available Material: All

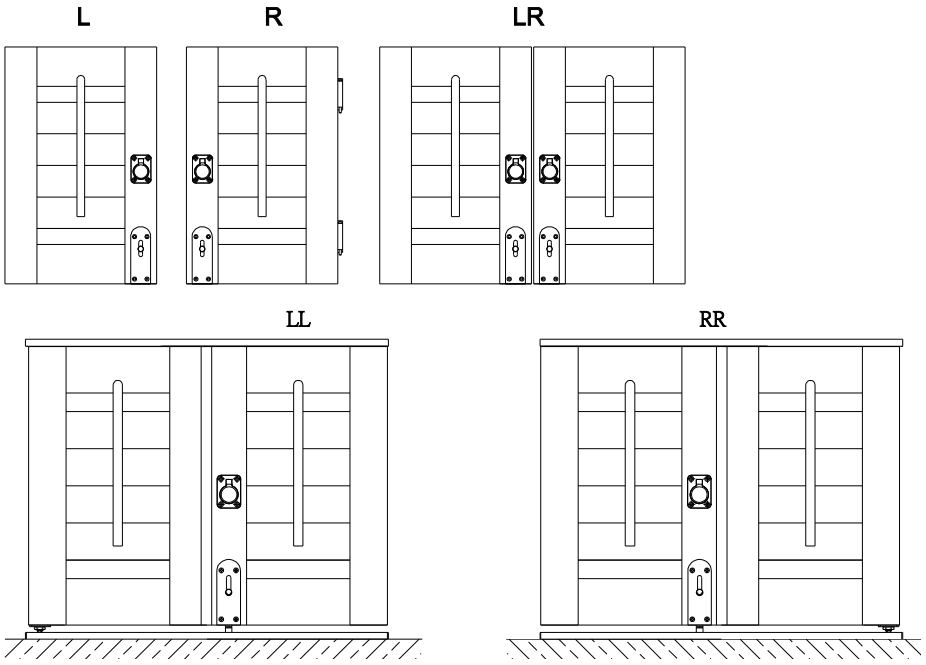
Color: Brush Nickel Plated, Pure White, Pearl, Black.

For waterproof option, Panel Lock is only offered in Brush Nickel Plated.

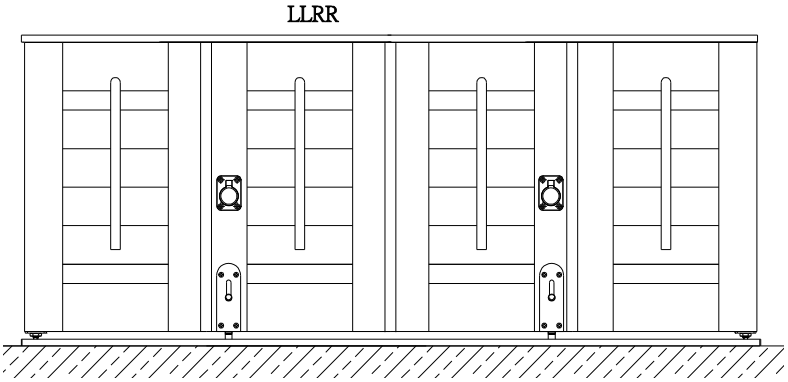




Position:

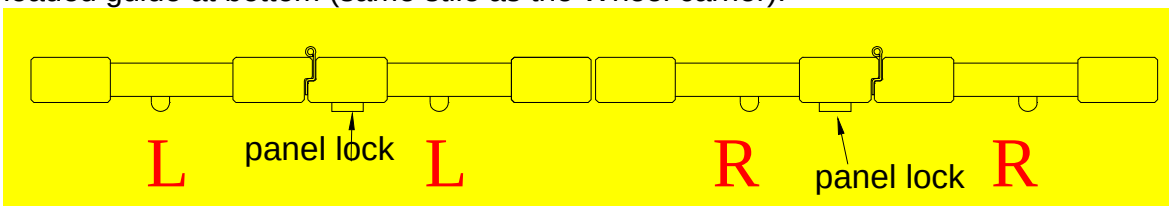
- Only available on Bottom for Track Shutters with Bottom Track.
- For Regular, available on Top/Bottom/both Top and Bottom.
- Café shutters can only have a panel lock at the bottom.
- Specialty shapes with a straight edge across the top or bottom may have a panel lock at top or bottom.
- Specialty shapes with the hinges on the bottom cannot have a panel lock at the bottom.
  Specialty shapes that are able to have the hinges at the bottom are:
  Eyebrow Sunburst, Elongated Eyebrow Sunburst,
  Half Round Sunburst, Half Round with Horizontal Louvers,
  Left Quarter Round Sunburst, Right Quarter Round Sunburst,
  Triangle with Horizontal Louvers, Triangle Sunburst
  Sunburst on Top with Divider Strip-top section,
  Sunburst on Top with T Post-top section,
  Arch Top Picture Window with Sunburst-top section,
  Sunburst Louvers Center Arch with Quarter Round Side Panels-top section
  Standard Unit with Horizontal Arch Center-top section.



*Some surcharges apply

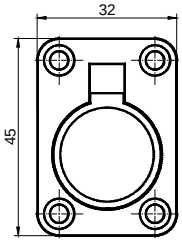


The Panel Lock location for both track system shutters and regular shutters would be the same. The general principle is that the Panel Lock position will avoid the stile which will install the spring-loaded guide at bottom (same stile as the Wheel carrier).



Ring pull: for easy opening and closing. (Not available for 1.625" Stile)

Available in all shutter programs.



Handles(Not available for 1.625" Stile):

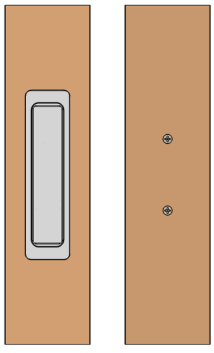
Available in all shutter programs.

Handle color options: White, Pearl, Black, Brushed Nickel.

Curved Hidden Handle & Rectangle Hidden Handle (for non Bypass track shutter)





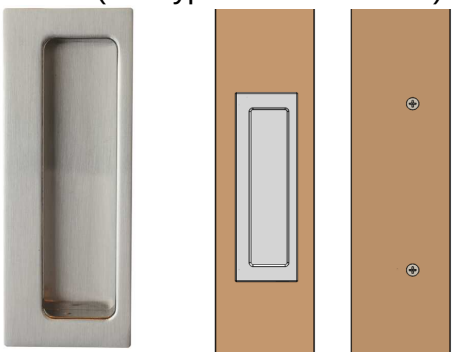


*Some surcharges apply

Front of stile Back of stile

Ring pull, Curved hidden handles and rectangular handles are not available for the following specialty shapes.
Eyebrow Sunburst, Elongated Eyebrow Sunburst, Half Round Sunburst, Half Round w/ Horizontal Louvers, Left Quarter Round Sunburst, Right Quarter Round Sunburst;
Hexagon, Octagon, Circle, Oval;
Triangle with Horizontal Louvers and Triangle Sunburst.

Recessed Handle (for Bypass track shutter)



Front of stile Back of stile

Ring pull & Curved Hidden Handle & Rectangle Hidden Handle location principle for Floating Panels:

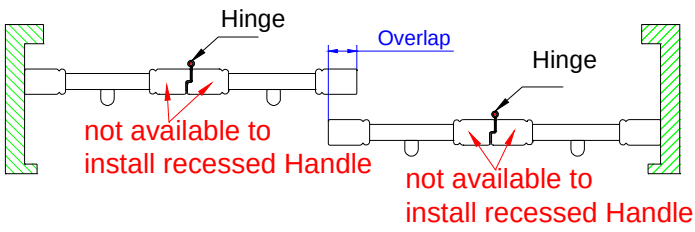
1. When floating panel config is in pairs, it will be split into halves, the left will be for LL and the right will be for RR. So the ring pull / Curved Hidden Handle / Rectangle Hidden Handle location for FF/FF, FF/FF/FF/FF will be same as that of panel config as LL/RR, LL/LL/RR/RR.
2. When floating panel config is FF, the ring pull / Curved Hidden Handle / Rectangle Hidden Handle location will be same as that of panel config LL.
3. 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 / Curved Hidden Handle / Rectangle Hidden Handle location for FF/FF/FF, FF/FF/FF/FF/FF will be same as that of LL/LL/RR, LL/LL/LL/RR/RR.

Recessed Handle location principle for Bypass track shutters:

Recessed Handle is not available for hinge connected stiles.
Panels on the rear track of an Open Bypass shutter that have panel light block or that have a connecting hinge are not able to have a recessed handle.

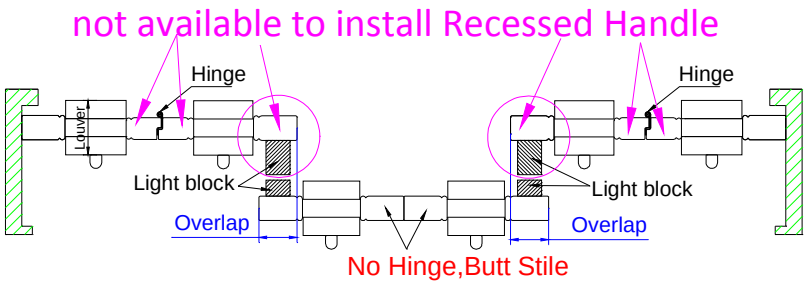
Take the following diagrams of the 4 panel side opener with Rabbet stile & 6 panel center opener with Rabbet stile as examples:

4 panels side open w/Rabbet stile



*Some surcharges apply

6 panels center open front w/Rabbet stile



Please note the ring pull / handles color will match with the hinge color.
When shutter order with Invisible Hinge, the ring pull / handles 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
Handles color	White	White	Pearl	Pearl	Black	Brushed Nickel	Brushed Nickel	Brushed Nickel	Brushed Nickel	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
Handles color	Pearl	Pearl	Brushed Nickel	Brushed Nickel	Brushed Nickel	Brushed Nickel

- The ring pull colors and Handles colors are selectable.

For non-waterproof option:

Paint colors (Solid colors) (24)：

No.	Color ID	Color Name	2.375" Hinge color (Default)	Direct Mount 3" Hinge color (Default)	T-post connector color (Default)	Ring pull color (Default)	Curved Hidden Handle / Recessed Handle / Rectangle Hidden Handle color (Default)	Panel Lock (Default)	Invisible hinge color	New Top & Bottom Tracks color (Default)	Dovetail Key Color (Default)
1	001	Pure White	Pure White	Pure White	Pure White	White	White	Pure White	Pearl Chrome Plated	Bright White	White
2	002	Extra White	Silk White	Silk White	Silk White	White	White	Pure White		Bright White	White

*Some surcharges apply

3	003	Silk White	Silk White	Silk White	Silk White	White	White	Pure White		Bright White	White
4	004	Bright White	Silk White	Silk White	Silk White	White	White	Pure White		Bright White	White
5	006	Pearl	Pearl	Pearl	Pearl	Pearl	Pearl	Pearl		Bright White	White
6	007	Ivory Lace	Pearl	Pearl	Pearl	Pearl	Pearl	Pearl		Metallic Gray	White
7	009	Creamy	Pearl	Pearl	Pearl	Pearl	Pearl	Pearl		Bright White	White
8	012	Crisp Linen	Crisp Linen	Bisque	Bisque	Bisque	Pearl	Pearl		Metallic Gray	White
9	013	Bisque	Bisque	Bisque	Bisque	Bisque	Pearl	Pearl		Metallic Gray	White
10	017	Gray Black	Black	Black	Black	Black	Black	Black		Black	Black
11	019	String	String	Bisque	Bisque	Bisque	Pearl	Pearl		Metallic Gray	Transparent
12	032	Sea Mist	Sea Mist	Nickel Plated	Nickel Plated	Brushed Nickel	Brushed Nickel	Brush Nickel Plated		Metallic Gray	White
13	046	Ice	Silk White	Silk White	Silk White	White	White	Pure White		Bright White	White
14	053	Clay	Nickel Plated	Nickel Plated	Nickel Plated	Brushed Nickel	Brushed Nickel	Brush Nickel Plated		Bronze	Transparent
15	063	Decorator's White	Silk White	Silk White	Silk White	White	White	Pure White		Bright White	White
16	066	Winchester White 2010	Pearl	Pearl	Pearl	Pearl	Pearl	Pearl		Metallic Gray	White
17	076	Aura White	Silk White	Silk White	Silk White	White	White	Pure White		Bright White	White
18	080	Taupe Gray	Taupe Gray	Nickel Plated	Nickel Plated	Brushed Nickel	Brushed Nickel	Brush Nickel Plated		Metallic Gray	White
19	836	Classic Black	Black	Black	Black	Black	Black	Black		Black	Black
20	090	TS White	Pure White	Pure White	Pure White	White	White	Pure White		Bright White	White
21	600	True White	Silk White	Silk White	Silk White	White	White	Pure White		Bright White	White
22	601	Chiffon	Silk White	Silk White	Silk White	White	White	Pure White		Bright White	White
23	603	Natural Linen	Pearl	Pearl	Pearl	Pearl	Pearl	Pearl		Metallic Gray	White
24	609	Chateau Brown	Nickel Plated	Nickel Plated	Nickel Plated	Brushed Nickel	Brushed Nickel	Brush Nickel plated		Metallic Gray	Transparent

*Some surcharges apply

For waterproof option:

Paint colors (Solid colors) (24)：

No.	Color ID	Color Name	Regular Hinge color (Default)	Ring Pull color (Default)	Curved Hidden Handle / Recessed Handle / Rectangle Hidden Handle color (Default)	Panel Lock (Default)	Invisible hinge color (Default)	Dovetail Key Color (Default)
1	001	Pure White	Stainless Steel	Brushed Nickel	Brushed Nickel	Brush Nickel Plated	Pearl Chrome Plated	White
2	002	Extra White						White
3	003	Silk White						White
4	004	Bright White						White
5	006	Pearl						White
6	007	Ivory Lace						White
7	009	Creamy						White
8	012	Crisp Linen						White
9	013	Bisque						White
10	017	Gray Black						Black
11	019	String						Transparent
12	032	Sea Mist						White
13	046	Ice						White
14	053	Clay						Transparent
15	063	Decorator's White						White
16	066	Winchester White 2010						White
17	076	Aura White						White
18	080	Taupe Gray						White
19	836	Classic Black						Black
20	090	TS White						White
21	600	True White						White
22	601	Chiffon						White
23	603	Natural Linen						White
24	609	Chateau Brown						Transparent

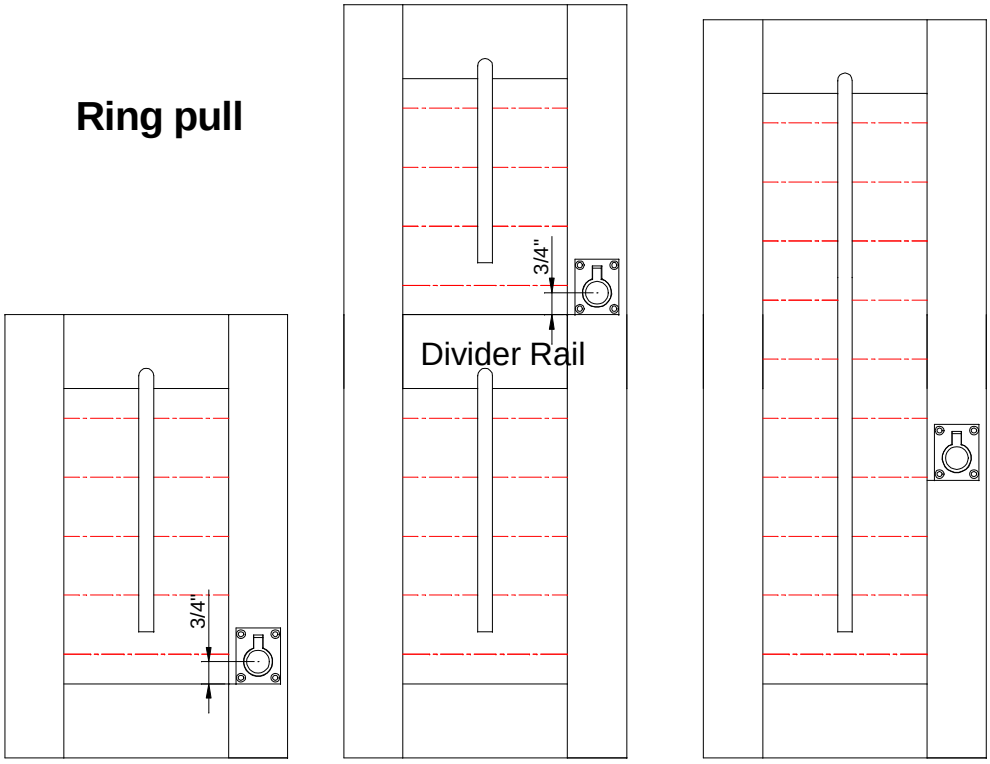
- When the bottom track colors are bright white and metallic gray, the default spring loaded guide color will be white; When the bottom track colors are bronze and black, the default spring loaded guide color will be coffee.
- Please note that the color options for pin/tension gears are White and Coffee. For custom color orders please select either White or Coffee when placing an order.

*Some surcharges apply

- For custom color orders, the supplied dovetail keys will match the selected pin/tension gear color (White or Coffee).
- For custom color orders, please select the desired T-post connector color from the available options when placing an order.
- For custom color orders with Invisible Hinge, but without Bifold hinge, please select the desired magnet catch (round magnet catch or sill magnet catch or 8.5x25mm magnet catch) color from the available options when placing an order.

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

Ring pull



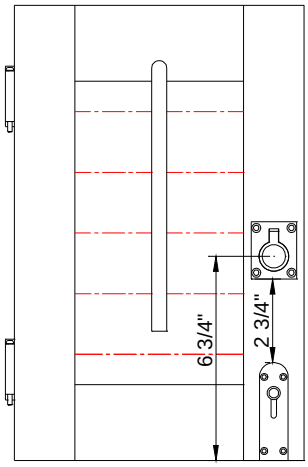
Above Bottom Rail **Above Divider Rail** **Custom Position**

Position:
A. Above Bottom Rail
B. Above Divider Rail / Center of panel
C. Custom Position

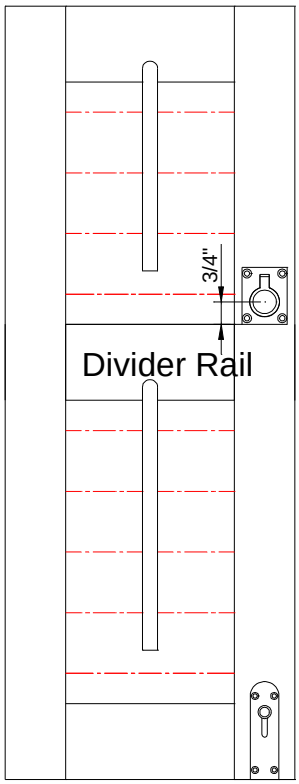
If both Panel Lock & ring pull are specified, the distance between them is 2 3/4”, and the ring pull location is 6 3/4” from the bottom of panel.
When there is no mid rail, ring pull will be just on the top of Panel Lock (2 3/4” above Panel Lock) as default location; if there are mid rails, bottom of ring pull lines up with top of the 1st mid rail as default location.

*Some surcharges apply

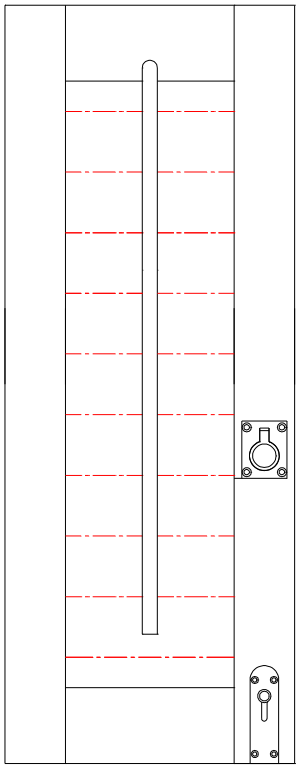
Ring pull



Above Panel Lock



Above Divider Rail



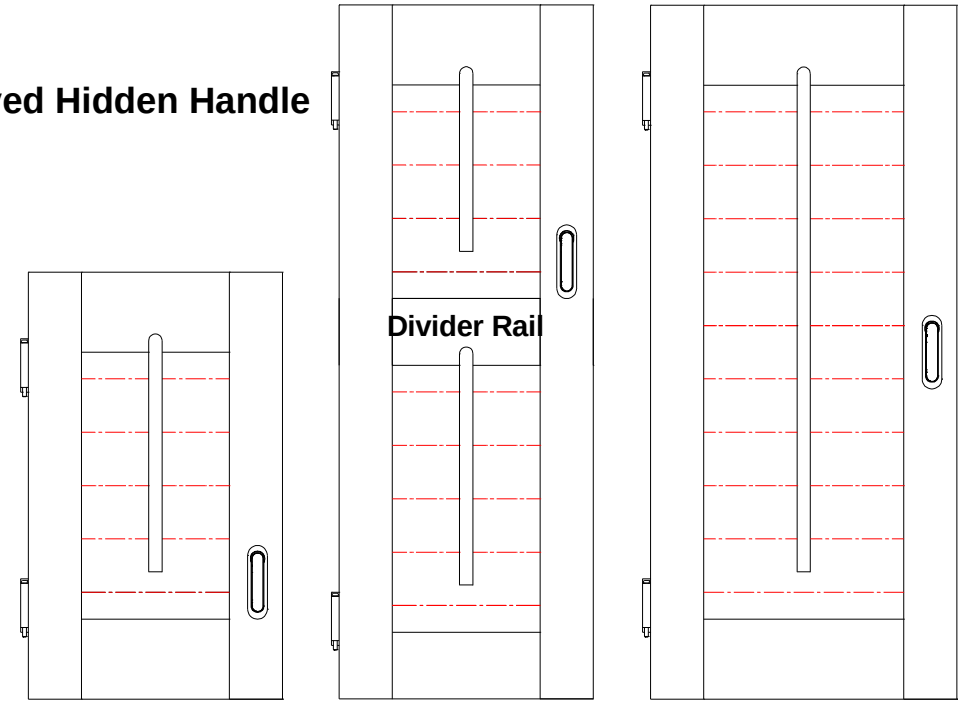
Custom Position

Position:
A. 2 3/4” Above Panel Lock
B. Above Divider Rail / Center of panel
C. Custom Position

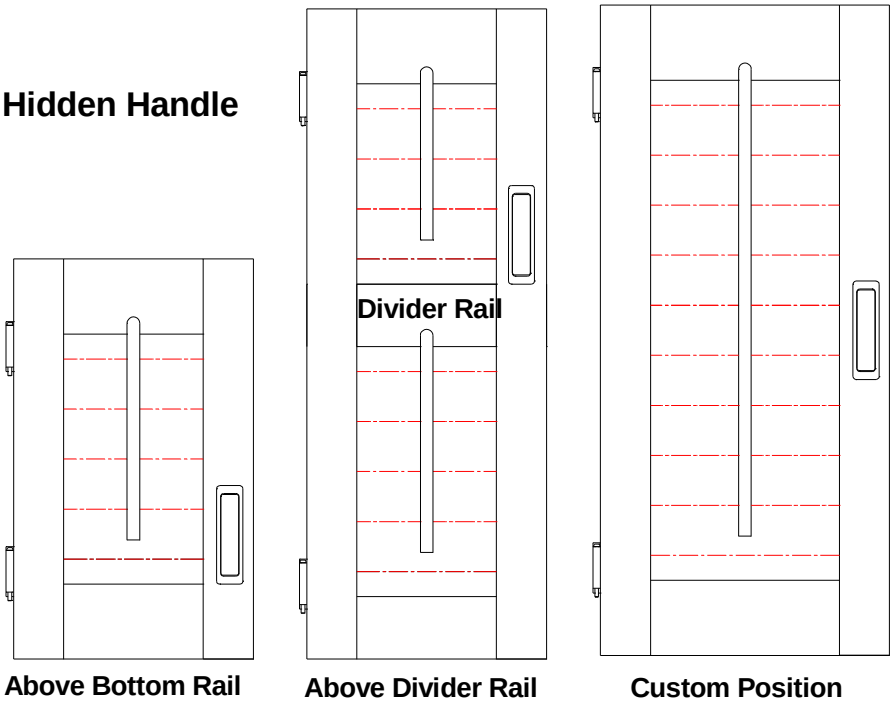
Measurements:
- Window size:
  - — Measure from the bottom of the window to the center of the ring pull.
- Max frame-to-frame:
  - — Measure from the bottom of the frame to the center of the ring pull.

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

Curved Hidden Handle



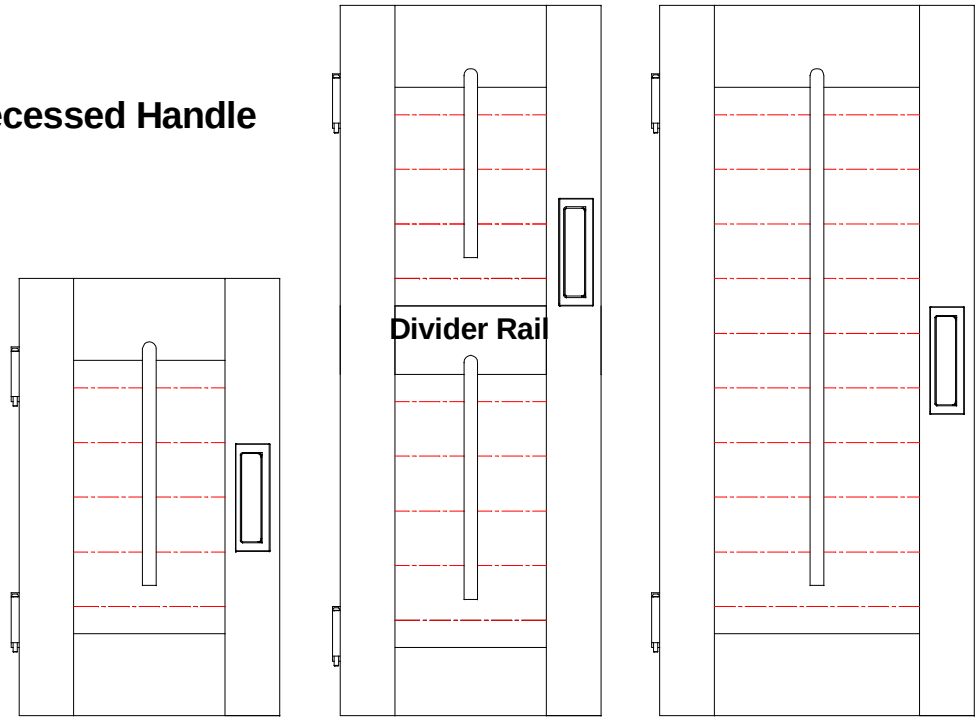
Rectangle Hidden Handle



Position:
A. Above Bottom Rail
B. Above Divider Rail / Center of panel
C. Custom Position

*Some surcharges apply

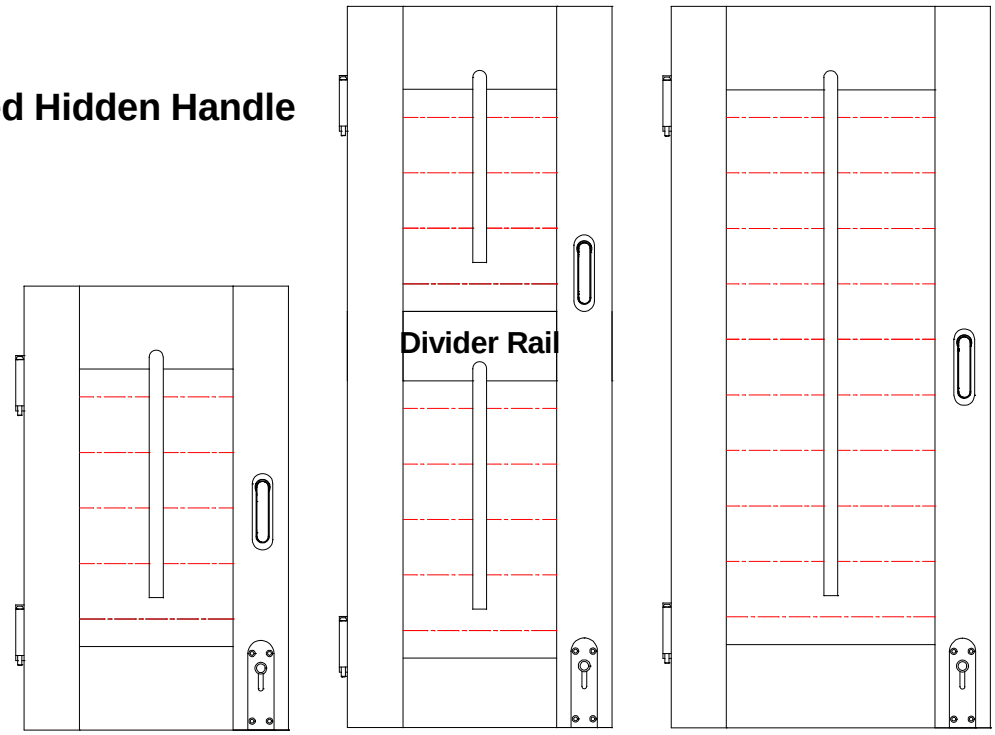
Recessed Handle



Center of panel | Above Divider Rail | Custom Position

Position:
A. Center of panel
B. Above Divider Rail
C. Custom Position

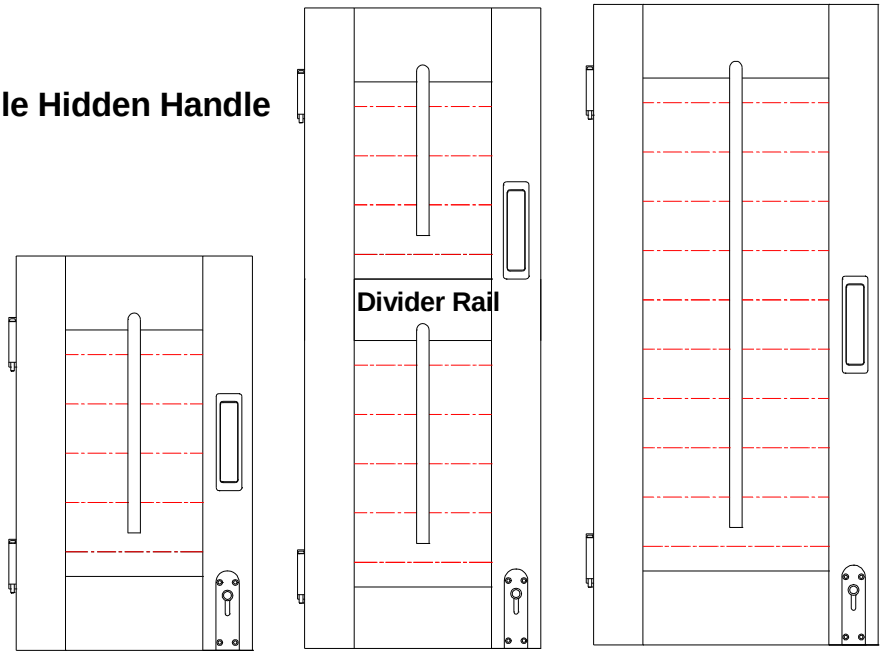
Curved Hidden Handle



Center of panel | Above Divider Rail | Custom Position

*Some surcharges apply

Rectangle Hidden Handle



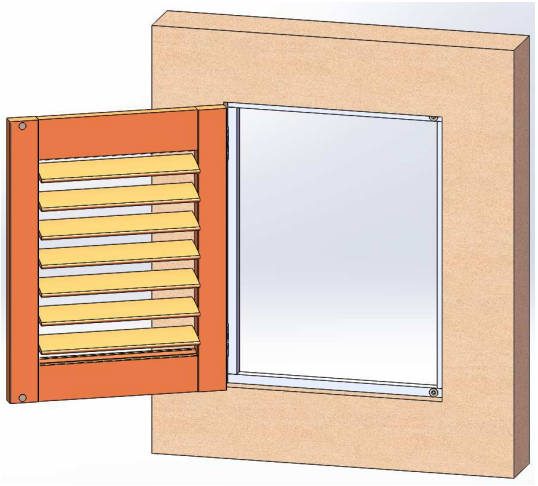
Center of panel **Above Divider Rail** **Custom Position**

Position:
A. Center of panel
B. Above Divider Rail
C. Custom Position

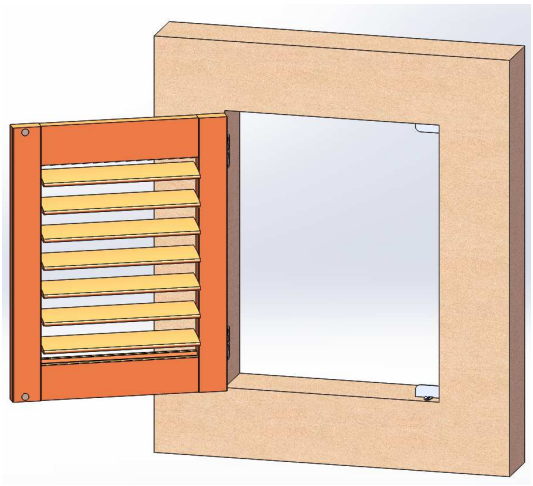
Measurements:
- Window size:
  — Measure from the bottom of the window to the center of the Handles.
- Max frame-to-frame:
  — Measure from the bottom of the frame to the center of the Handles.

Mount Options for Direct Mount:

Light block

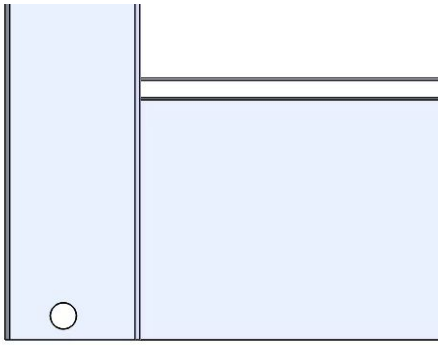


L magnet catch

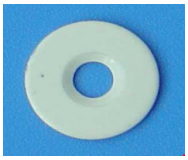


*Some surcharges apply

- A Direct Mount shutter that does not have a top and/or bottom sill option is able to use “Light Block”, “L magnet catch” or “Light block & L magnet catch” options.
- “Light Block”, “L magnet catch” or “Light block & L magnet catch” options can be used for Hang Strip shutters that have the following frame configurations:
    - 2-sided Hang strip IM that does not have a top and/or bottom sill option;
    - 2-sided Hang strip OM that does not have a top and/or bottom sill option;
    - 3-sided Hang strip OM that does not have a bottom sill option;
    - 3-sided Inverted Hang strip OM (hang strip beside the panel) that does not have a top sill option;
- “L magnet catch” and “Light block & L magnet catch” options are not available for Waterproof option.



Magnet (recessed into panels); Not available for Waterproof option.



Round Magnet Catch (installed on light blocks); Not available for Waterproof option.

L Magnet Catch (sill magnet catch): used for catching the magnets when ordering panels without light blocks. Not available for Waterproof option.



Round Magnet Catch and L Magnet Catch are available in:
Pure White, Silk White, Bisque, Pearl, Bright Brass, Antique Brass, Black, Nickel plated, Crisp Linen, String, Sea Mist, Stone Gray, Brown Gray, Taupe Gray.

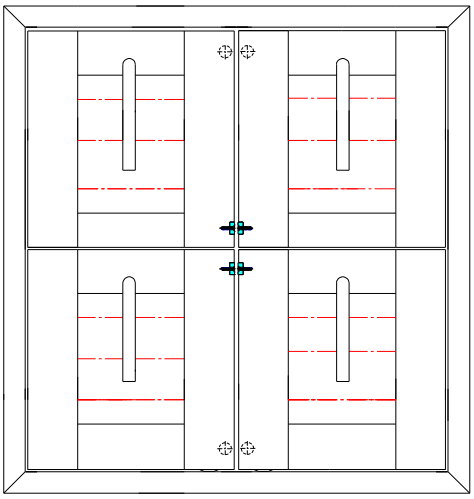
*Some surcharges apply

Side Magnet: Not available for Waterproof option;

Available for Butt, Rabbet and Astragal stile; Side Magnets will be applied in the following situation:

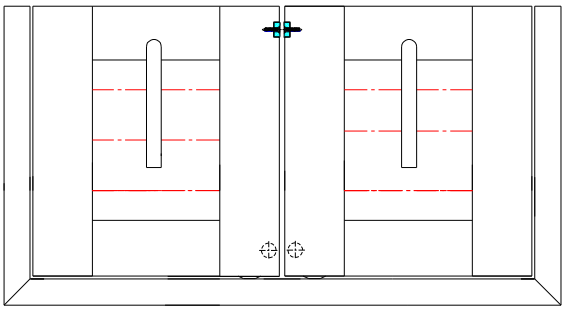
1. Double Hung shutter but without horizontal T post:

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



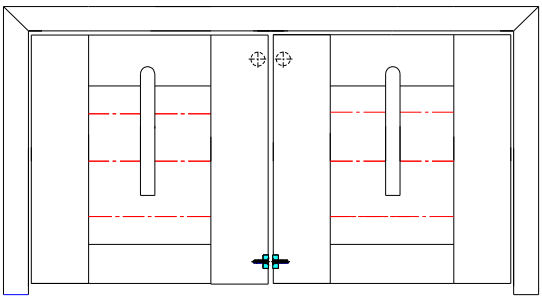
2. Café Shutter

   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.

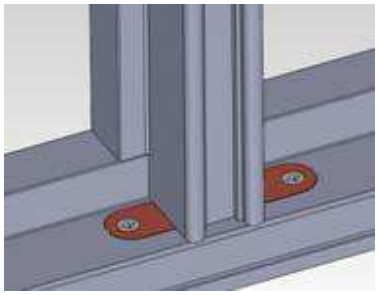
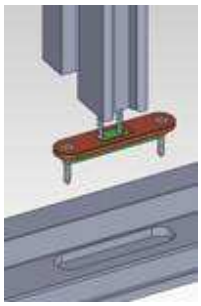
   Side magnets will be applied to the meeting stiles of the L and R panel. (Optional)



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.

*Some surcharges apply

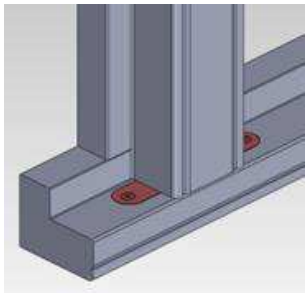
T-Post Connector

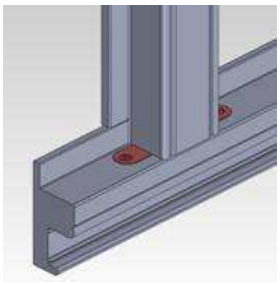
- Available colors: Pure White; Silk White; Pearl; Bisque; Black; Nickel-Plated.
- Available for all types of T Posts (custom-width T posts excluded).

T Post Connector can be used with the following Frames.

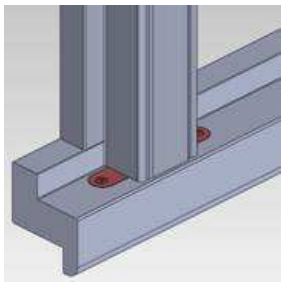
L Frame:



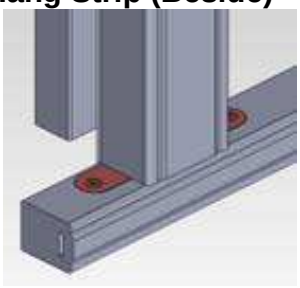
Deco Frame:



Z Frame:



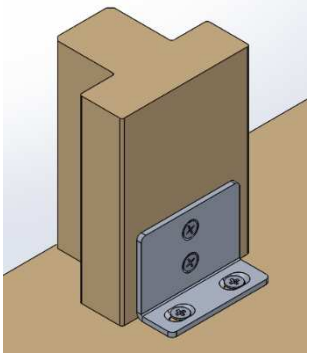
Hang Strip (Beside)



Note:

1. For Horizontal T Post, Hang Strip (Behind) and shutter with 1.5” sill (for Waterproof option) / 1.6” sill (for non-Waterproof option) / 2” Sill, T Post connector is not available and T Post will be installed by screws instead;
2. If there is a panel lock or sleeve & base plate 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 or sleeve & base plate may only interfere with one T-Post;
3. 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.
4. The screw color is Stainless Steel for Waterproof shutter regardless of the color of the T Post connector;
5. The screw color is Nickel Plated for Non-Waterproof shutter regardless of the color of the T Post connector;

L Bracket 44mm (It is used when the T Post Connector is not available.)
Available colors: White, Silver



Notes:

1. For the Custom Paint Color orders：

- When the order only has L Bracket 44mm, but without T Post Connector, please advise the color of L bracket 44mm;
- When the order has both T Post Connector and L bracket 44mm, the color of the L bracket 44mm will match the T Post Connector color as shown in the table below:

T Post Connector color	L Bracket 44mm color
Pure White	White
Silk White	White
Pearl	Silver
Bisque	Silver
Black	Silver
Nickel-Plated	Silver

2. For the Standard Color orders, they will follow the color coordination chart as below shown:

Paint colors (Solid colors) (24)：

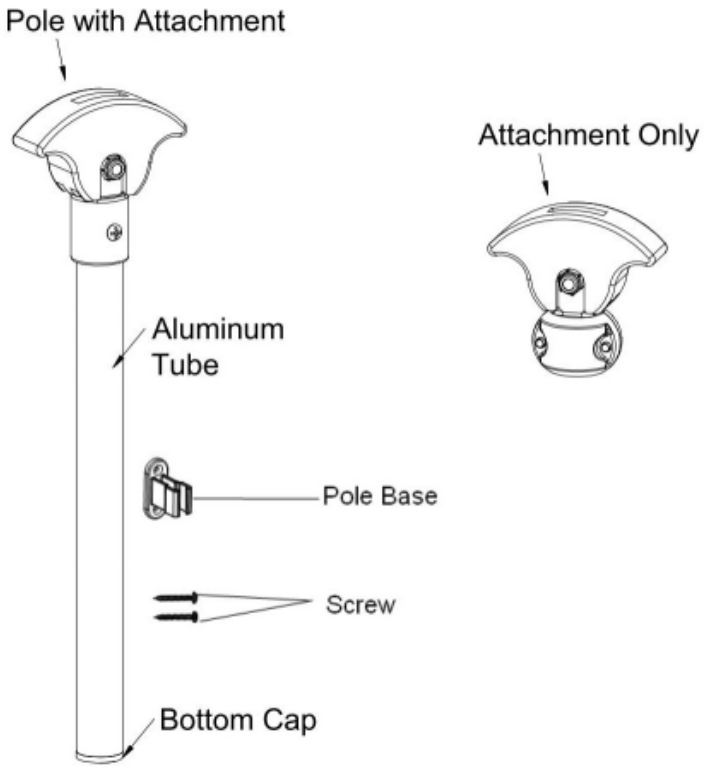
No.	Color ID	Color Name	L Bracket 44mm color (Default)
1	001	Pure White	White
2	002	Extra White	White
3	003	Silk White	White
4	004	Bright White	White
5	006	Pearl	Silver
6	007	Ivory Lace	Silver
7	009	Creamy	Silver
8	012	Crisp Linen	Silver
9	013	Bisque	Silver
10	017	Gray Black	Silver
11	019	String	Silver

*Some surcharges apply

12	032	Sea Mist	Silver
13	046	Ice	White
14	053	Clay	Silver
15	063	Decorator's White	White
16	066	Winchester White 2010	Silver
17	076	Aura White	White
18	080	Taupe Gray	Silver
19	836	Classic Black	Silver
20	090	TS White	White
21	600	True White	White
22	601	Chiffon	White
23	603	Natural Linen	Silver
24	609	Chateau Brown	Silver

Optional Poles:

1. Terminology



*Some surcharges apply

Component

NO.	Name	Note
1	Pole with Attachment	Aluminum Tube, Pole Base and Bottom Cap included *Surcharge applies.
2	Attachment only	● Compatible with extension poles found in most home improvement stores. ● Screw thread (3/4”) and thread pitch (1/5”) *Surcharge applies.

2. Available Pole Length

   Two lengths available:

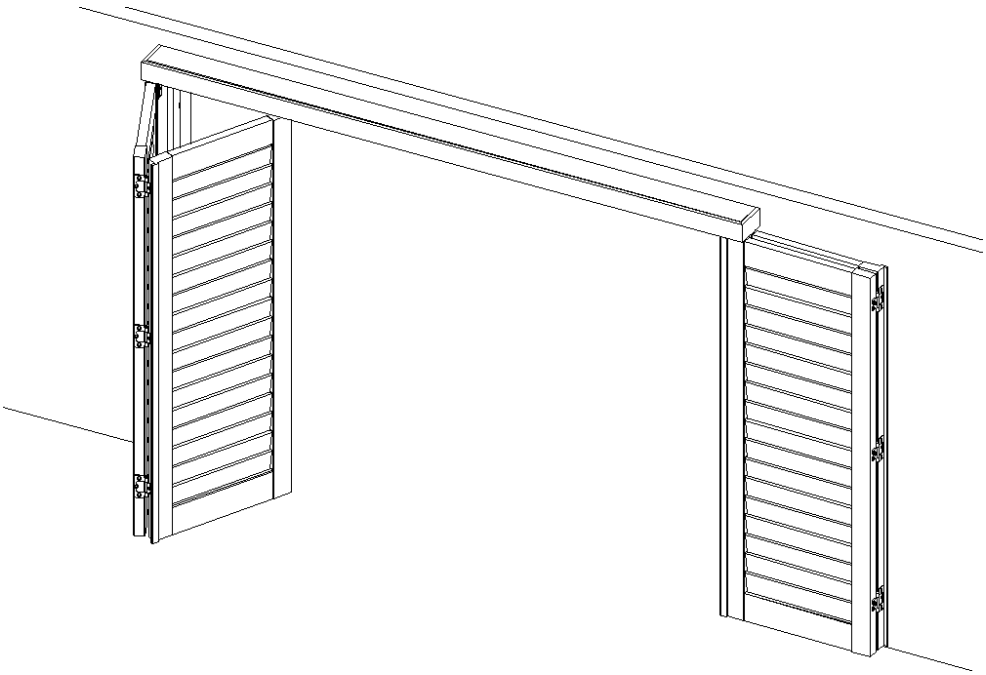
   - 36”
   - 60”

Bi-fold 180™

Guidelines and Specs:

Description	**Minimum**	**Maximum**	
		1⅞"	2½" ; 3" ; 3½" ; 4½"
Single-Panel Width (Bi-fold Track) for Non-Waterproof option	6"	24"	24"
Single-Panel Width (Bi-fold Track) for Waterproof option	6"	24"	26"
Single-Panel Width (LLL/RRR)	N/A	N/A	N/A
Single-Panel Height	10"	120"	120"

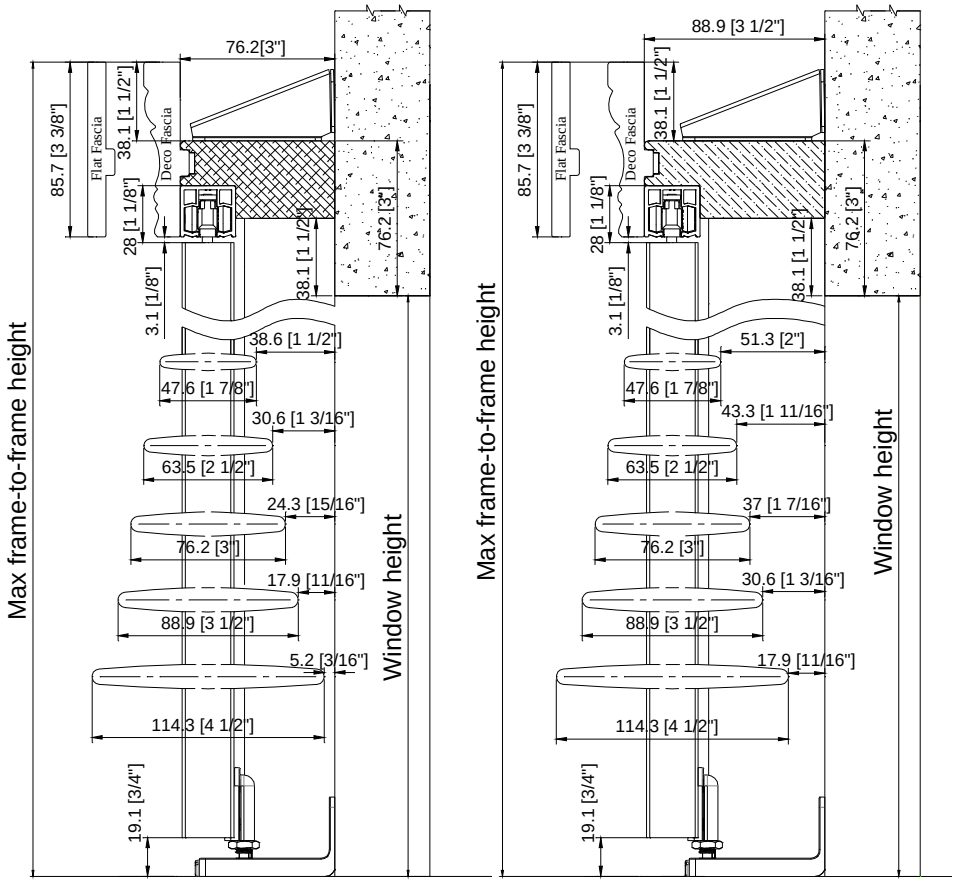
Outside Mount
Max frame-to-frame width: window width + 3 1/2"
Max frame-to-frame height: window height + 4 1/2"



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

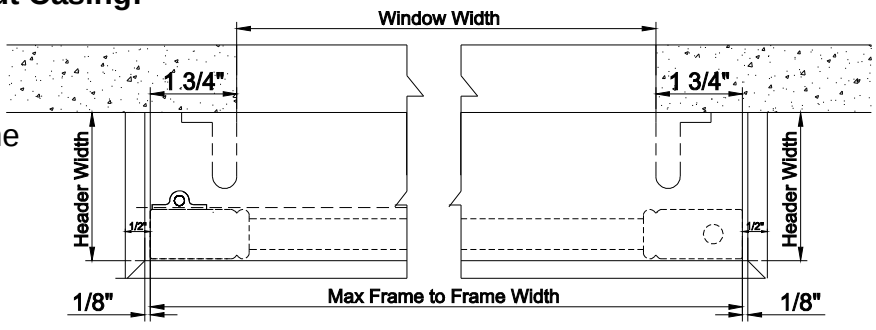
Mounting Options: Outside Mount only

Side View



Top View

Without Casing:



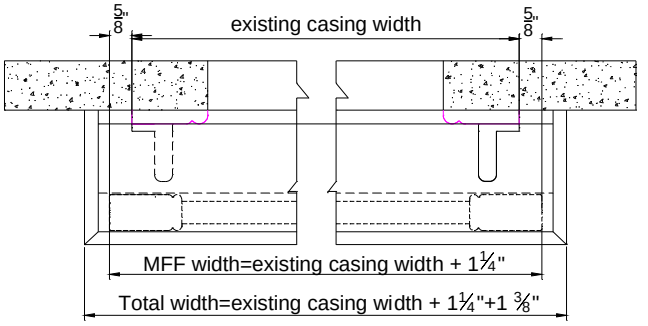
Note:

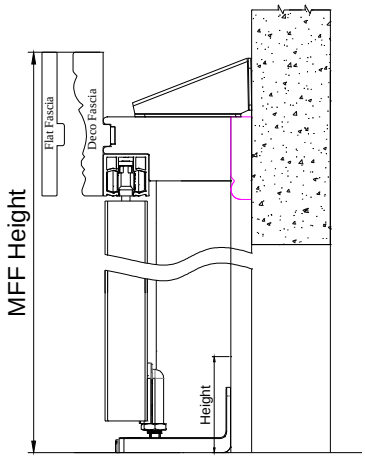
◇ Fascia return will protrude the panel about 1/2” for each side.

◇ The header will protrude the panel about 1/8” for each side.

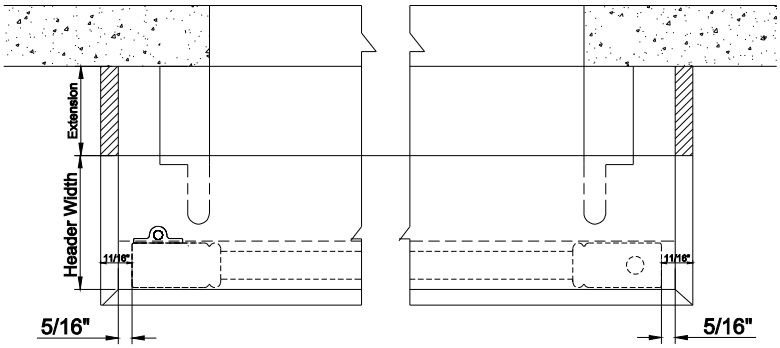
◇ Header, light blocks, and bottom pivot bracket(s) must be installed on a flat surface.

With Existing Casing:

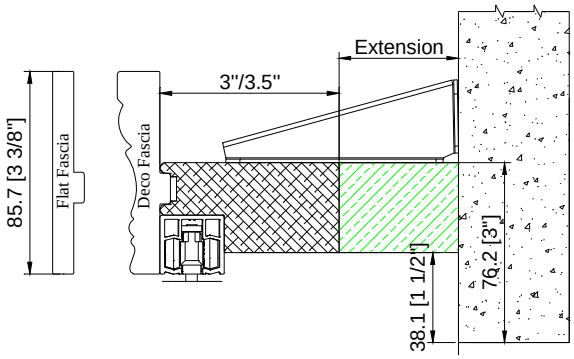




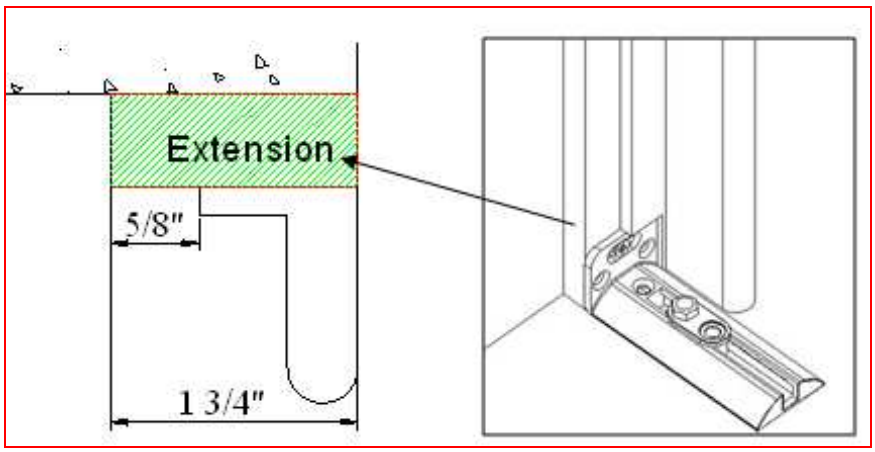
- ✧ Header Extension: Optional
- ✧ Custom extension up to 2” for Header
- ✧ When extension is needed, the header will protrude the panel 5/16” for each side and the fascia return will protrude the panel 11/16” for each side.



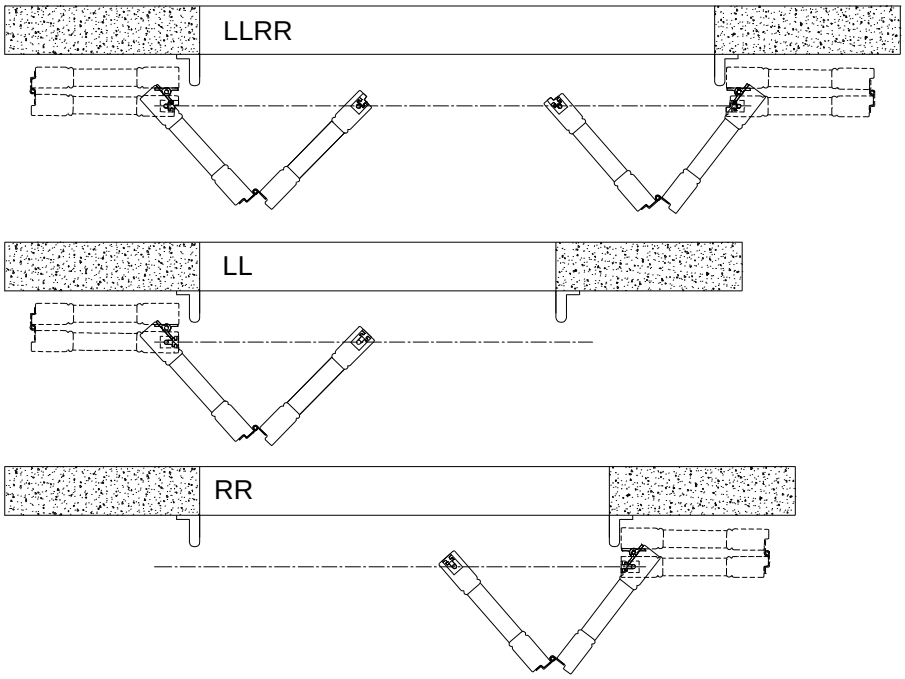
- ✧ The extension will be pre-attached.



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:



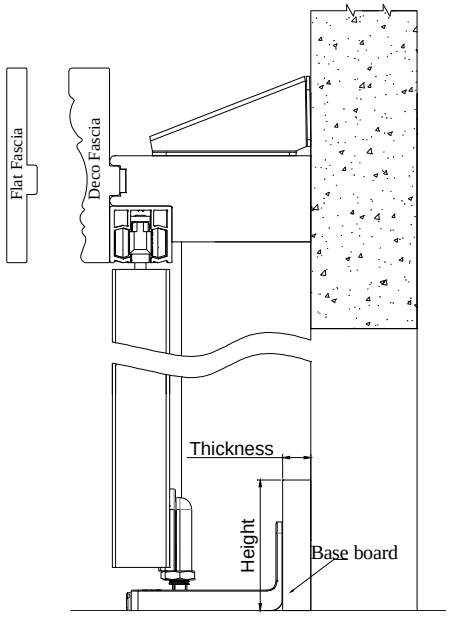
Panel Configuration:
Only 2”, 2 1/4” rabbet and butt stiles are available for non-waterproof option.
Only 2” rabbet and butt stiles are available for waterproof option.
Center stile is not available.



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”.

Please see the drawing below:



180^0 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"

180^0 Bi-fold Track Shutters Hardware Box

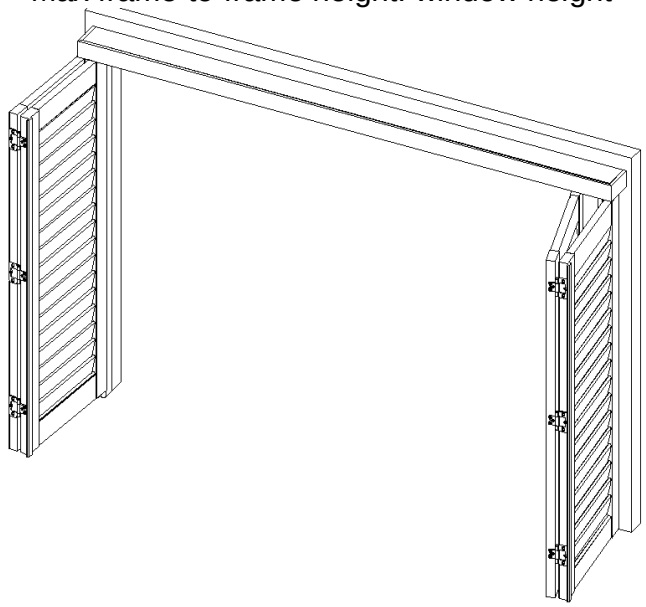
Parts
Wrench
Hinge Pin
Triangle Bracket (based on the length of header)
2" screws for Triangle Bracket
¾ " screws for Triangle Bracket
Bottom Pivot Bracket
1 ½ " screws for bottom pivot bracket
2 ½ " screws for Frame with predrilled screw holes

Bi-fold 90

Guidelines and Specs:

Description	**Minimum**	**Maximum**	
		1⅞"	2½" ; 3"; 3½" ; 4½"
Single-Panel Width (Bi-fold Track) for Non-Waterproof option	6"	24"	24"
Single-Panel Width (Bi-fold Track) for Waterproof option	6"	24"	26"
Single-Panel Width (Multifold track up to 4 panels)	N/A	N/A	N/A
Single-Panel Height	10"	120"	120"

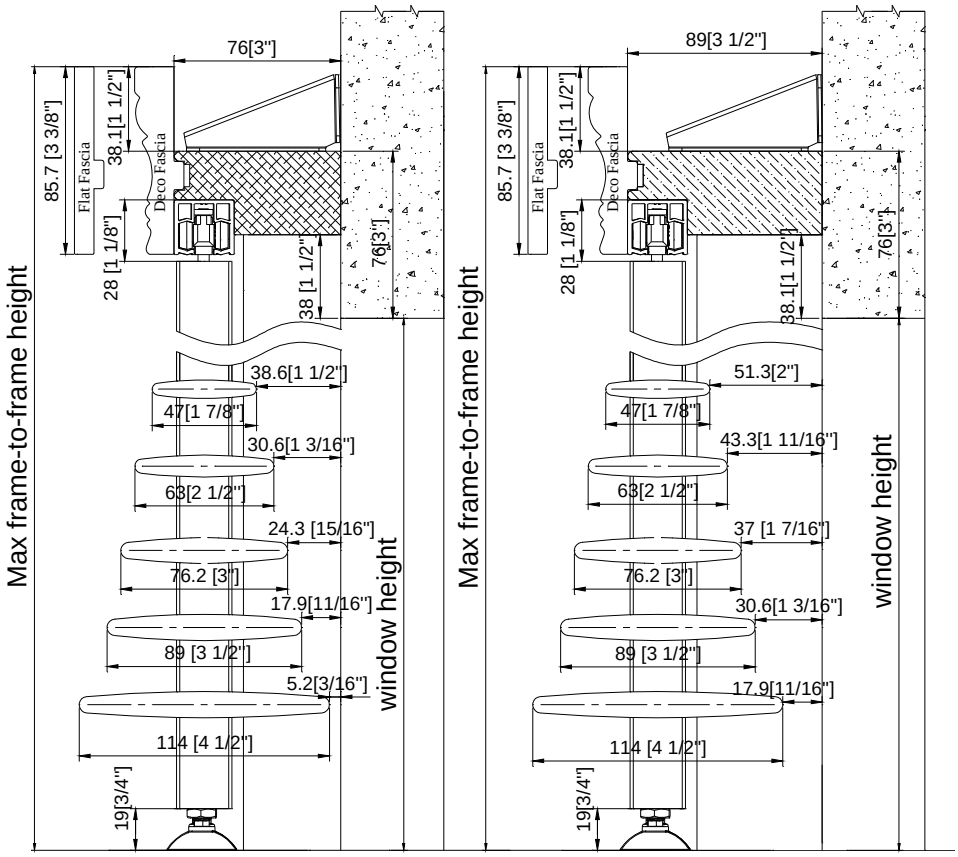
Outside Mount
Max frame-to-frame width: window width + 3 1/2"
Max frame-to-frame height: window height + 4 1/2"
Semi-Inside Mount
Max frame-to-frame width: window width - $^{1}/_{8}$"
Max frame-to-frame height: window height + 1 $^{3}/_{8}$"
Inside Mount
Max frame-to-frame width: window width - $^{1}/_{8}$"
Max frame-to-frame height: window height - $^{1}/_{8}$"



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

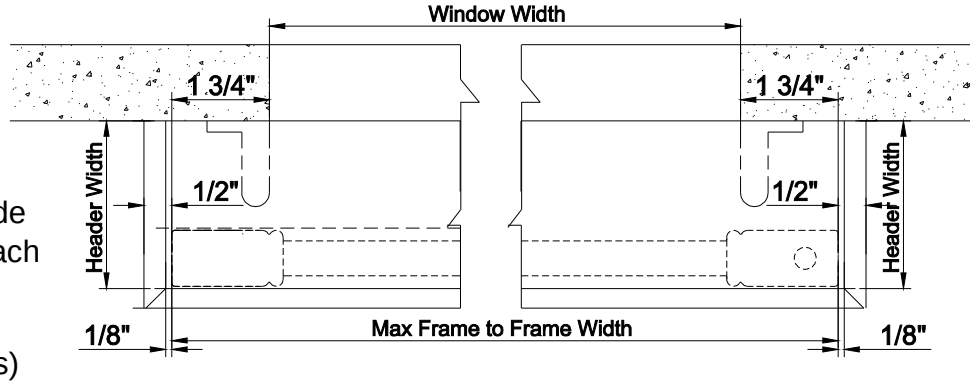
Mounting Options: Outside Mount

Side View



Top View

Without Casing:



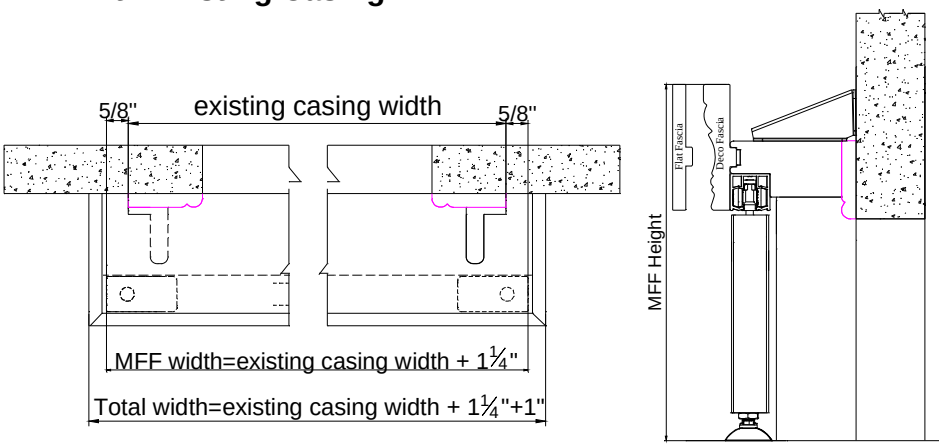
Note:

◇ Fascia return will protrude the panel about 1/2” for each side.

◇ The header will protrude the panel about 1/8” for each side.

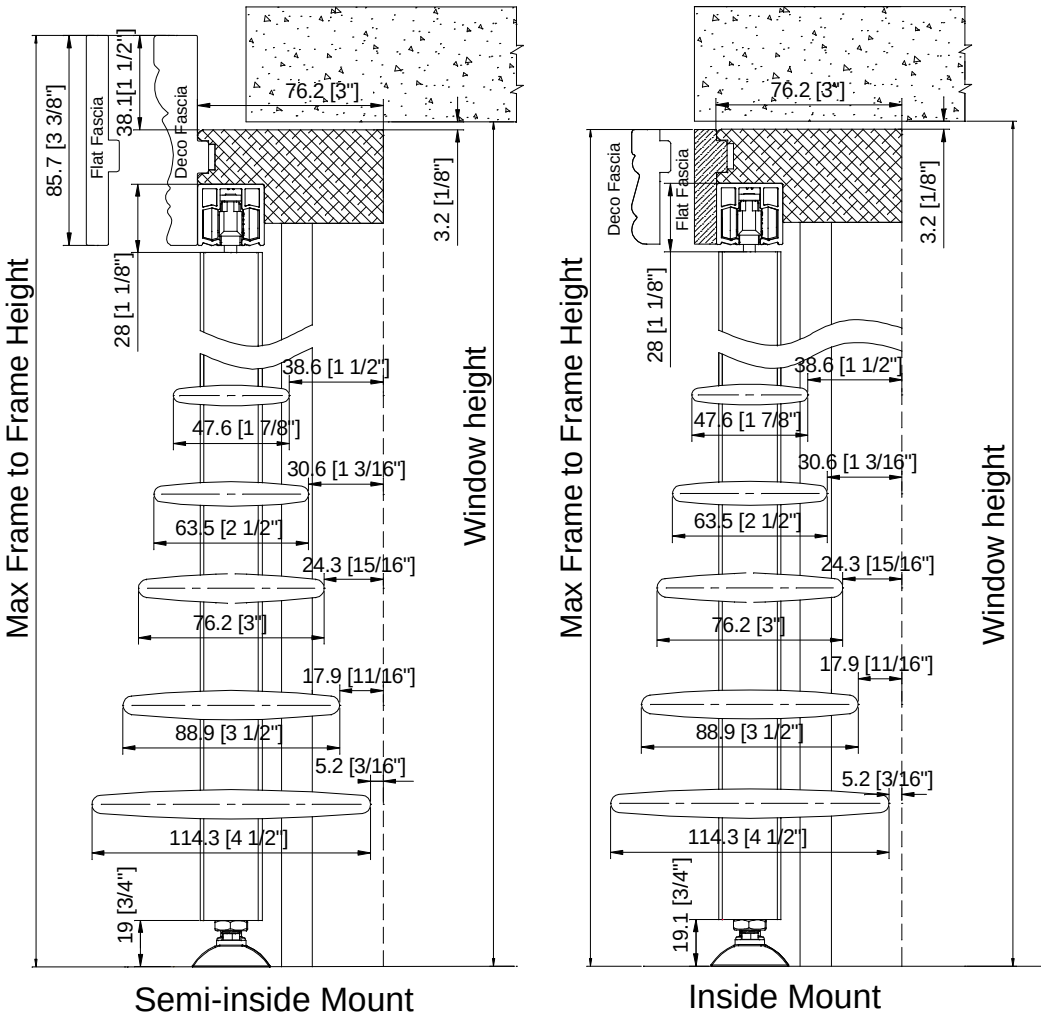
◇ Header, light blocks, and bottom pivot bracket(s) must be installed on a flat surface.

With Existing Casing:

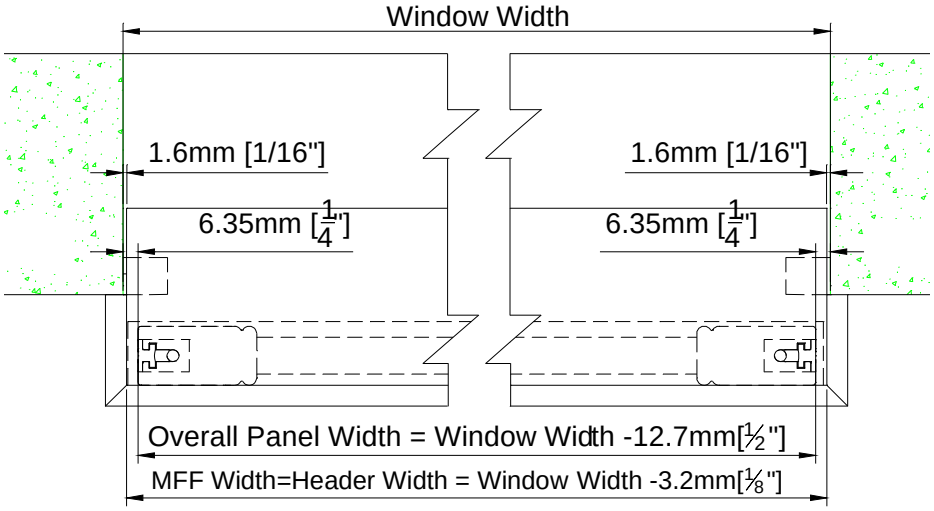


Semi-Inside/Inside Mount

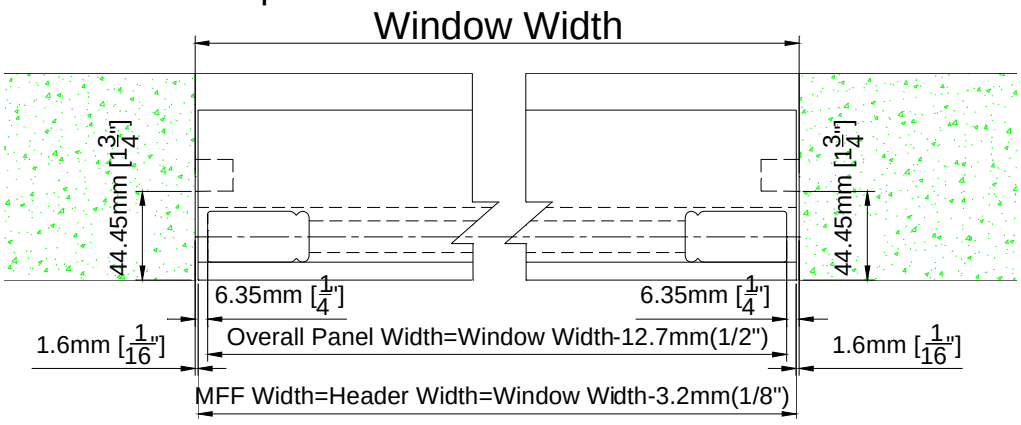
Side View



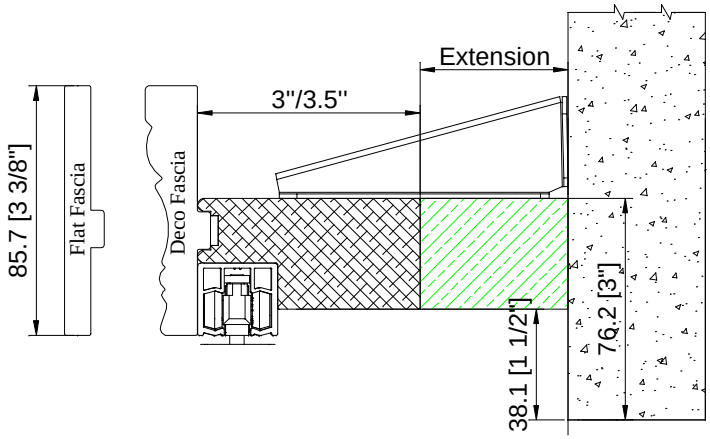
Semi-Inside Mount Top View



Inside Mount Top View



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



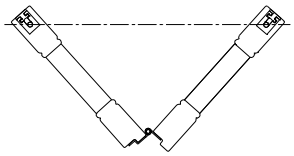
Panel Configuration：

Only 2”, 2 1/4” rabbet and butt stiles are available for non-waterproof option.

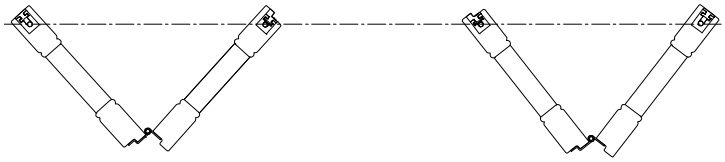
Only 2” rabbet and butt stiles are available for waterproof option.

Center stile is not available.

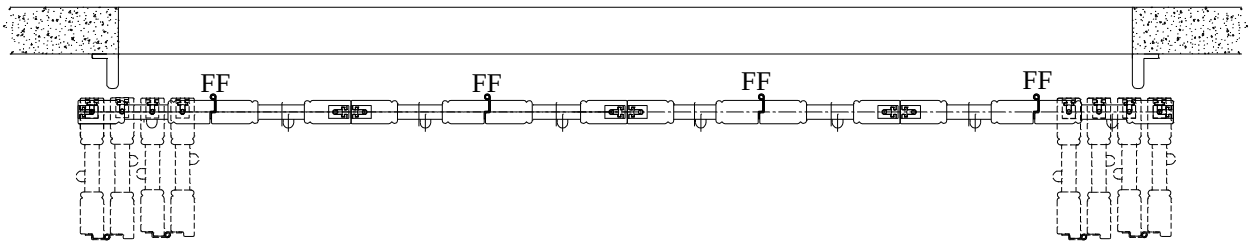
LL or RR

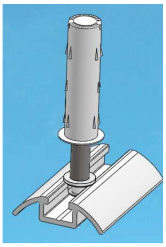


LLRR



90^0 Floating Panels





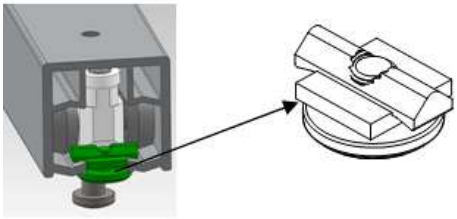
- Two panels can be hinged together, fold and slide to either direction
- Application comes with wheel carrier, spring loaded guide and floor track
- Can be used on large window

Note:

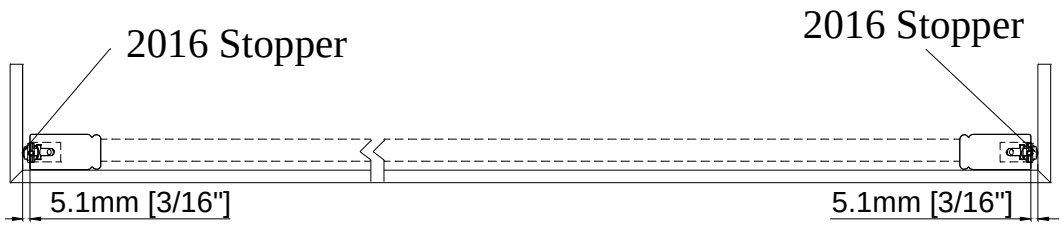
1. For 90^0 Floating Panels outside mount/semi-inside mount without side boards, the 2016 Stopper will be supplied by default. The gap between the fascia return / end of top track and the panel is 5mm each side.

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

90 degree Bi Fold Track Shutters Framing Materials (For Waterproof option, only plain fascia is available)

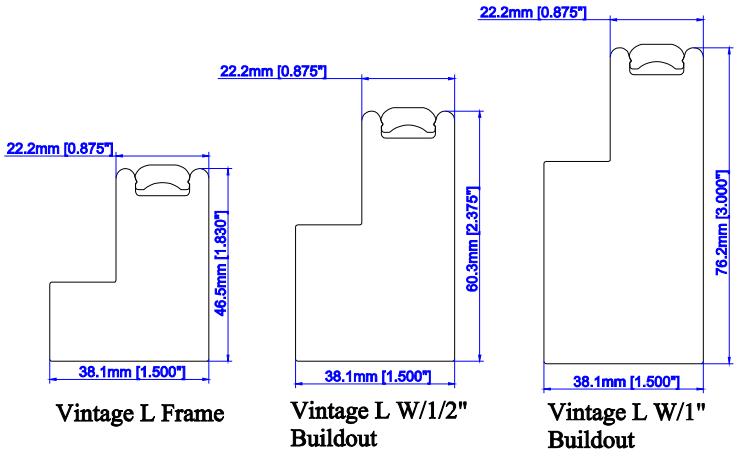
Type		Header Dimension	Top Fascia Dimension	Light Block Strip Dimension
Header & Top Fascia& Light Block Strip	OM	3”	3 3/8"	1 9/16"
		3 1/2”		2 1/16"
	Semi-IM	3"		5/8"x3/4"
	IM	3"	1 7/8"	5/8"x3/4"

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

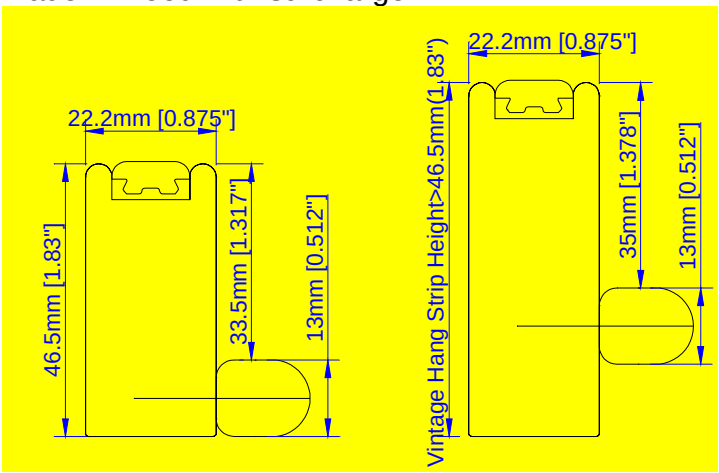
Frame Hinged Bifold (Not available for Waterproof option)

Available Stile: Rabbet Stile Only

Available Frame type

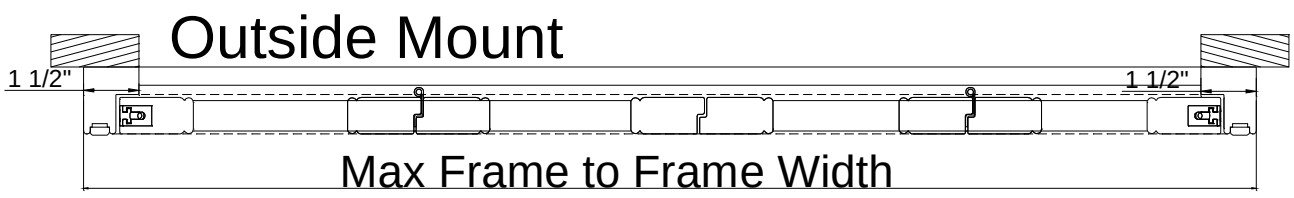


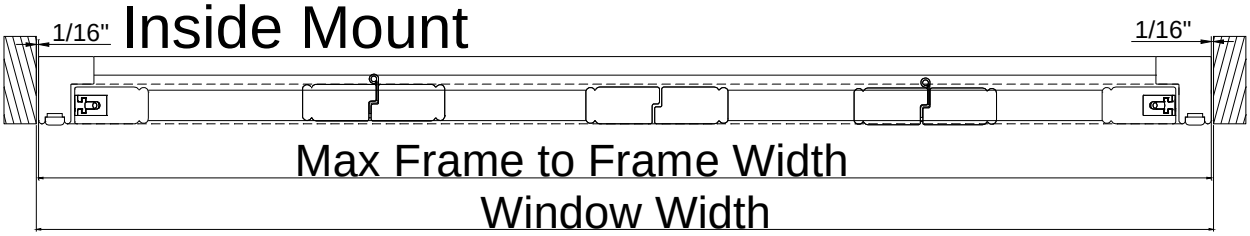
Vintage Hang Strip with 13mm light block: For single direction shutter with even panel qty, the frame on the unhinged side will be Vintage Hang Strip with 13mm [0.512''] light block, the height of the Vintage Hang Strip will match with that of the hinged side frame. The Vintage Hang Strip will be made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



Top View

Hinged at Left or Right with wheel assembly at top;

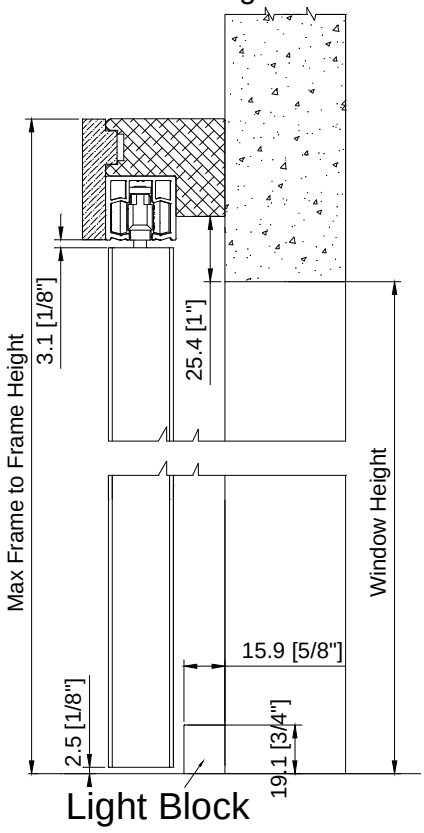




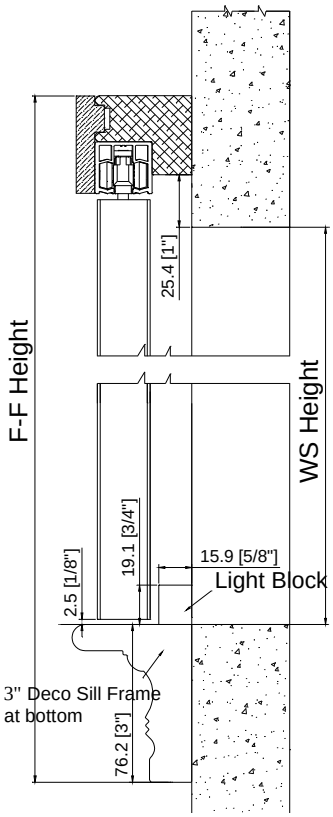
Side View

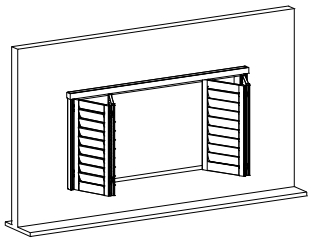
Outside Mount

3-Sides + bottom light block



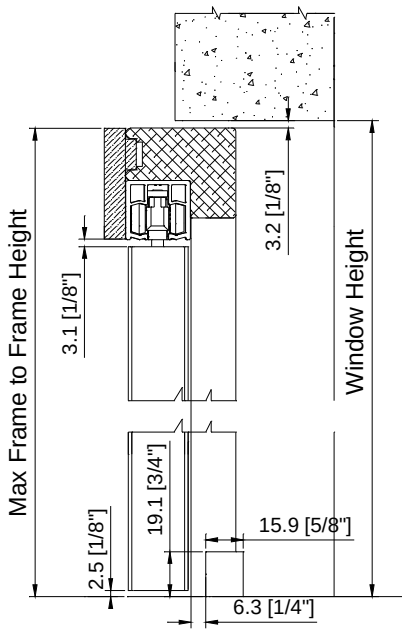
3-Sides + 3” Deco Sill Frame



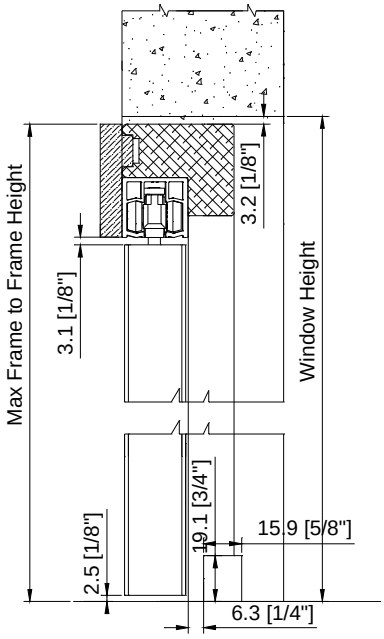


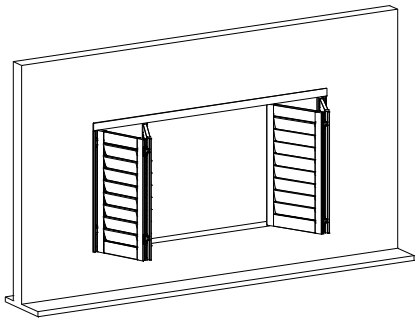
Note: For OM Frame Hinged Bifold shutter not to use as a door, if there is no existing sill at the bottom of the window opening, it is recommended to have the 3” Deco Sill Frame at the bottom.

Semi-Inside

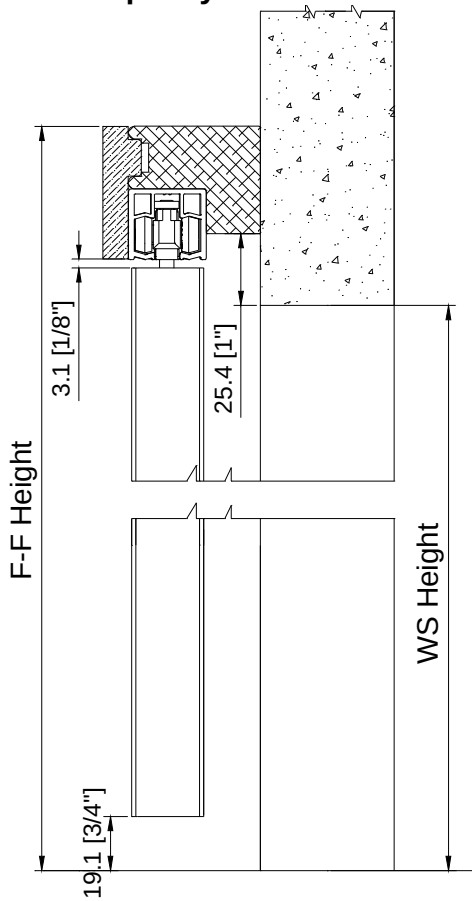


Inside Mount





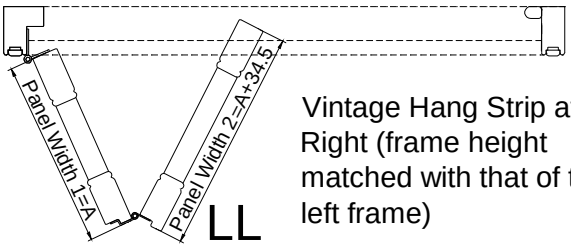
For frame hinged bifold track shutter used as door, the bottom gap will be 19mm by default. Please specify “Used As Door” on the order form.



Panel Configuration (uneven panel width)

1) If the hinge type between panel and frame is 2 3/8” Self Mortise Hinge,
   the panel width1 (hinged with Self Mortise Hinge) = A,
   the other panels width (panel width2) = A + 34.5mm;
2) If the hinge type between panel and frame is Invisible Hinge,
   the panel width1 (hinged with Invisible Hinge) = A,
   the other panels width (panel width2) = A + 29.5mm;

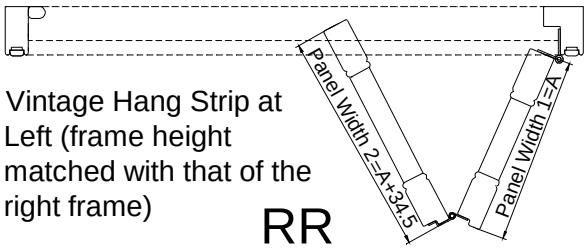
Take the drawings of the hinge type between panel and frame is 2 3/8” Self Mortise Hinge as examples:



LL

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)

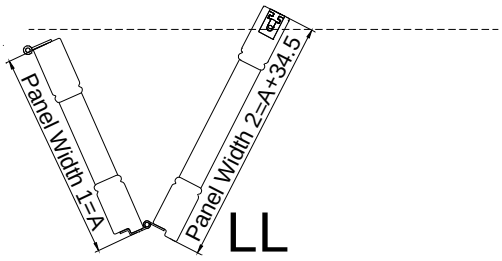


RR

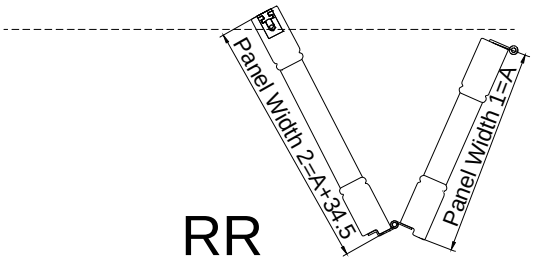


LLRR

Frame Hinged Bifold Track Panel Hanger Location:



LL



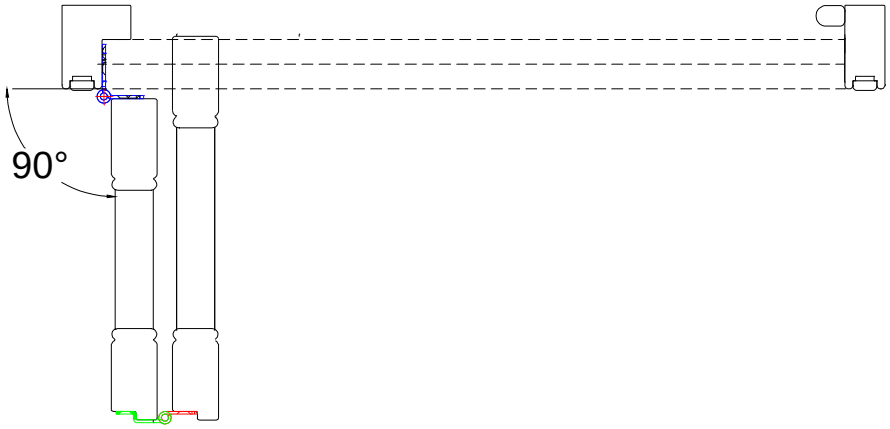
RR



LLRR

Notes:

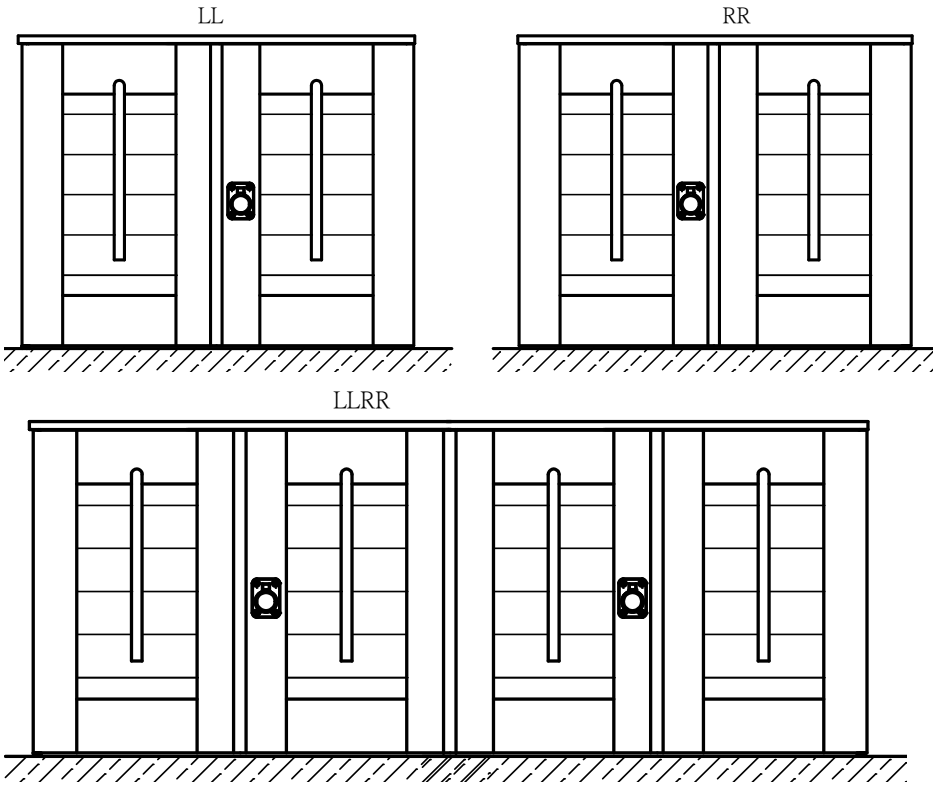
1. Only available for 3-Sides + bottom light block or 3-Sides + 3” Deco Sill Frame (4-sides is not available); Panels can be folded and open at 90 degree;



2. Frames available: Only Vintage L Frame

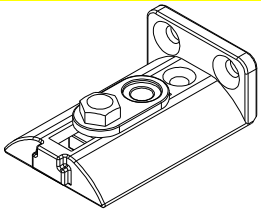
1) For top frame, the insert will be replaced by top fascia;
2) Top track will be pre-attached to the top frame;
3) Frame will be pre-drilled with screw holes same as regular shutters.

Ring Pull: The ring pull will be provided as option; 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 type:



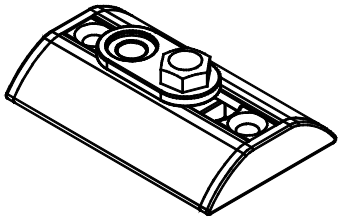
Pivot Bracket Type for Bottom:

Bottom Pivot L Bracket:



For 90° Bifold Track Shutt er Inside Mount,
it will be supplied as default;

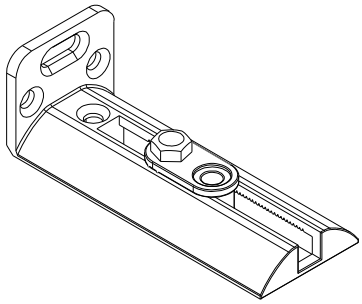
Bottom Pivot Bracket:



For 90° Bifold Track Shutter Semi-Inside,
it will be supplied as default.

For 90° Bifold Track Shutter Outside Mount (excludi ng the floating panels),
it will be supplied as an optional.

81mm Bottom Pivot L Bracket:

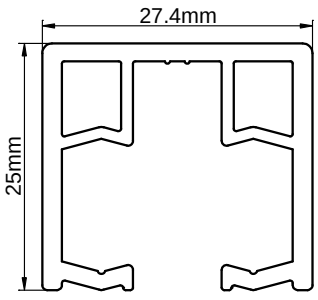


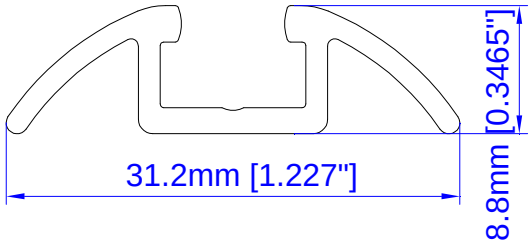
For 90° Bifold Track Shutter Outside Mount (excluding the floating panels),
it will be supplied as default.
(Notes:If screwing the bracket into the floor is not an option)

For 180° Bifold Track Shutter Outside Mount ,
it will be supplied as default.

Track Dimension:

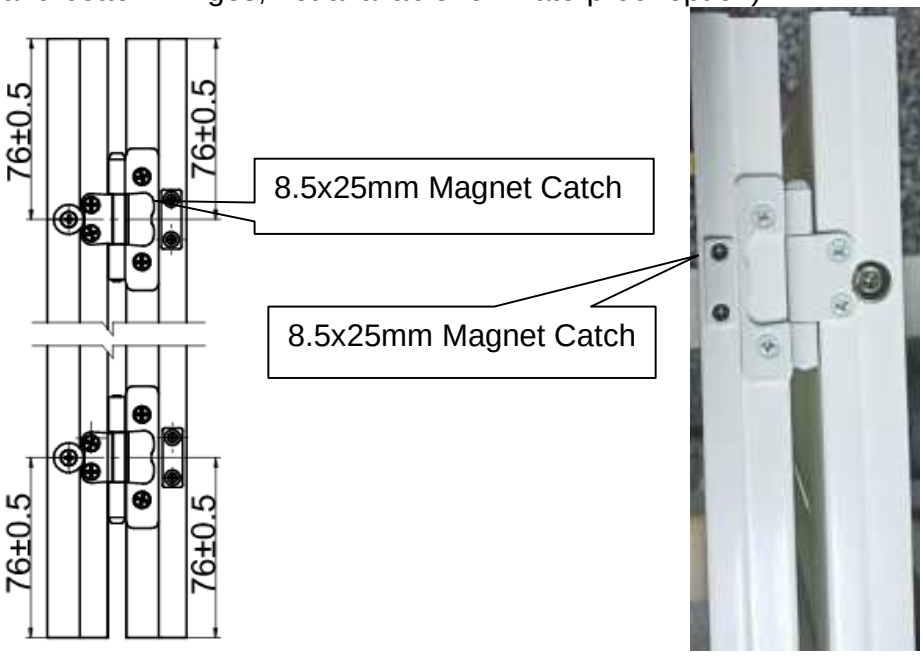
Top Track



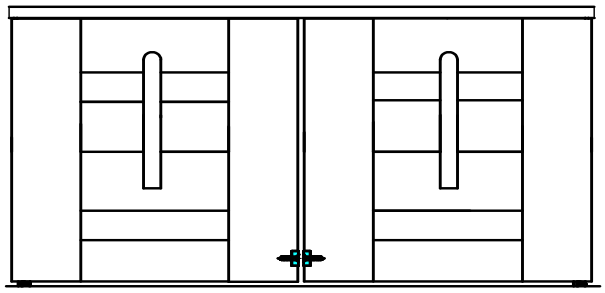


M Shape Bottom Track

Extra 8.5x25mm Magnet Catches and magnets will be supplied for Bifold hinge: (only for the most top and bottom hinges, not available for Waterproof option)



Side Magnet: applied to the meeting stiles of LR panels, not available for Waterproof option



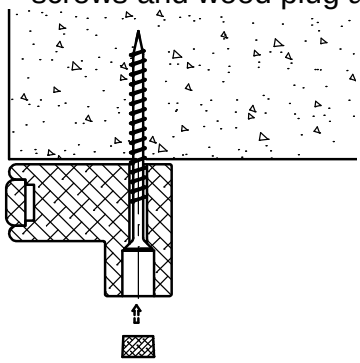
90^0 Bi Fold Track Shutters Hardware Box

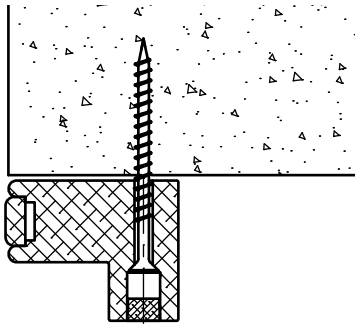
Parts
Wrench
Hinge Pin
Triangle Bracket (based on the length of header)
2" screws for Triangle Bracket
¾ " screws for Triangle Bracket
Bottom Pivot Bracket
38.1mm screws for bottom pivot bracket
63.5mm screws for Frame with predrilled screw holes

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





3. For both 90° & 180° bi-fold track, for waterproo f option, when 3” header is selected, the header will make as 2 3/8” (Vintage L frame for waterproof option) + 5/8” extension.

When 3 1/2” header is selected, the header will make as 2 3/8” (Vintage L frame for waterproof option) + 1 1/8” extension.

The extension for both header sizes will be pre-attached.

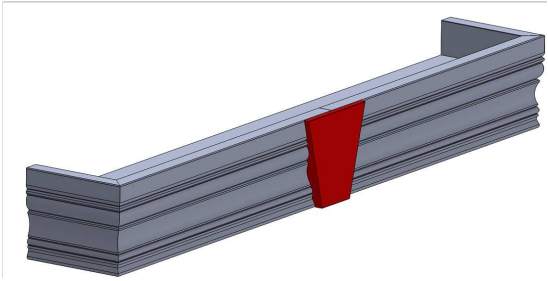
4. For waterproof option, only plain fascia is available.

Keystone for Fascia of the Track Shutter

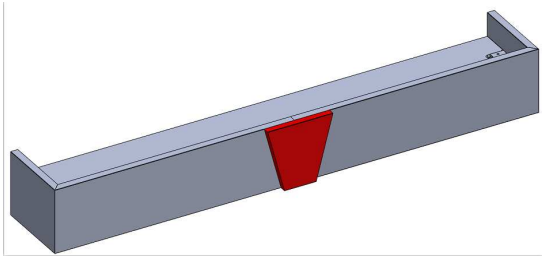
When fascia length exceeds the limitation and needs to split, keystone design fascia will be supplied without surcharge for track shutters.

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

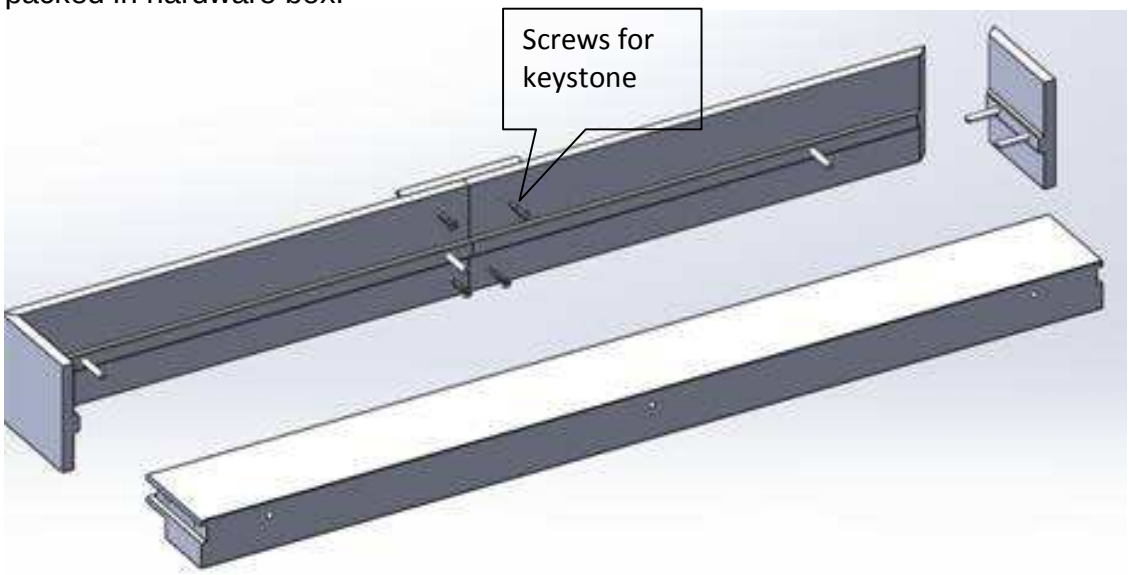
For Deco Fascia:



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—2020 Bypass

Definitions

Closed Bypass - louvers must be in the closed position for panels to bypass each other when sliding.

Open Bypass - louvers can remain open position when panels bypass each other allowing for a clearer view when sliding.

Combi-joined panels - two or more panels combined or hinged together to form a single, wider sliding section, please see the drawings of where hinges will be installed.

Note: the interlocking bottom guide is standard on the closed bypass and optional on the open bypass.

Guidelines and Specs:

Description	**Minimum**	**Maximum**		
		1⅞"	**2½"/ 3”**	**3½" / 4½"**
Single-Panel Width (Regular) for Non-Waterproof option	6"	24"	36”	36"
Single-Panel Width (Regular) for Waterproof option	6"	24"	31”	36"
Single-Panel Height	10"	120”	120”	120”

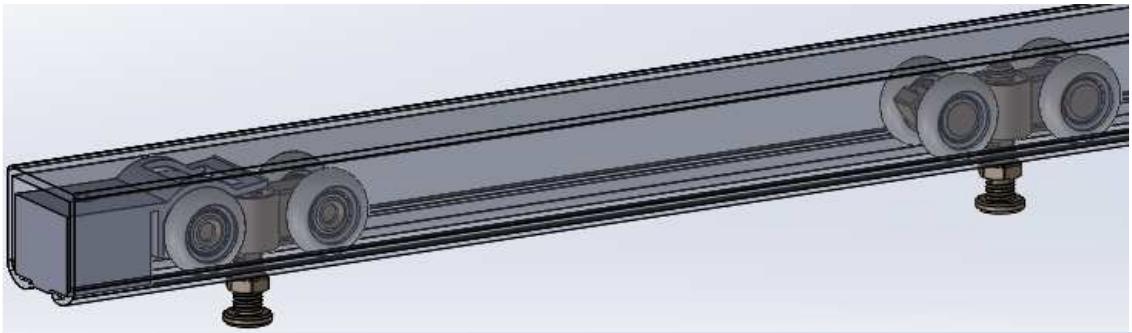
Outside Mount
Max frame-to-frame width: window width + 3”
Max frame-to-frame height: window height + 4½’’

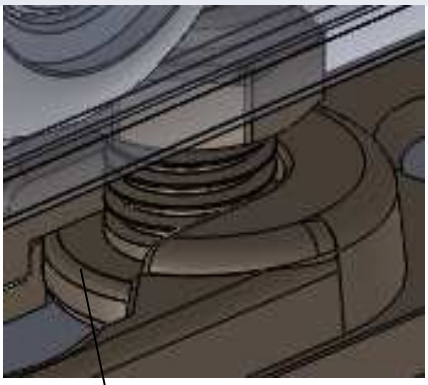
Semi-Inside Mount
Max frame-to-frame width: window width - $^{1}/_{8}$”
Max frame-to-frame height: window height + 1 $^{1}/_{8}$”

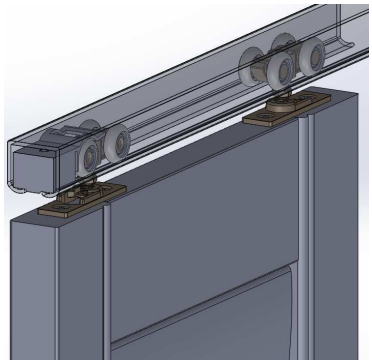
Inside Mount
Max frame-to-frame width: window width - $^{1}/_{8}$”
Max frame-to-frame height: window height - $^{1}/_{8}$”

Track Shutters—2020 Bypass

Wheel Carriers are in the Track / Wheel Carrier Brackets are on the top of Panel:
Adjustments to panel alignment are made by turning the wheel carrier bolt with the wrench included in the Hardware Box





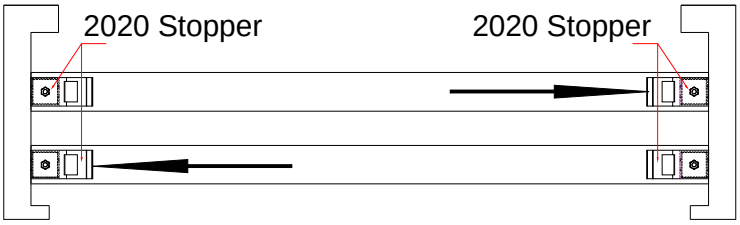


Push wheel carrier into the wheel carrier bracket to seat

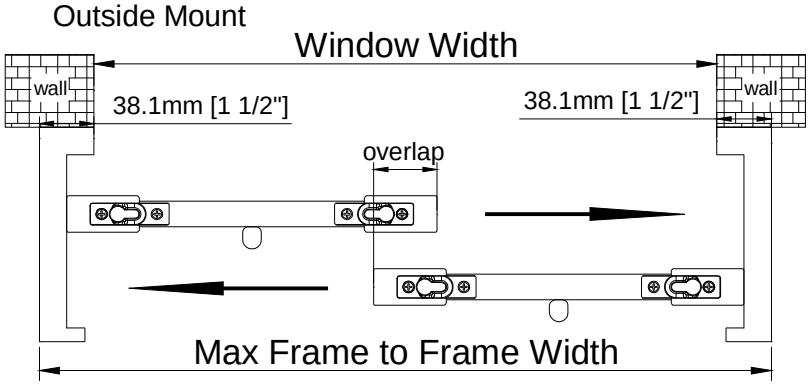
Note: 2020 Stopper will be supplied at both ends of top track by default.

Track Shutters—2020 Bypass

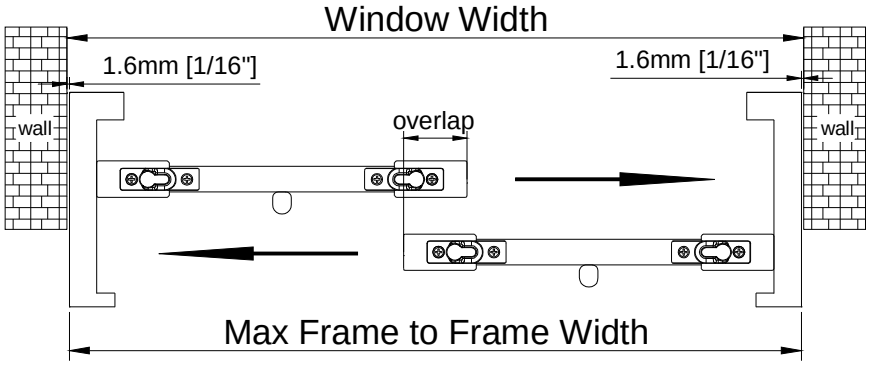
Top View



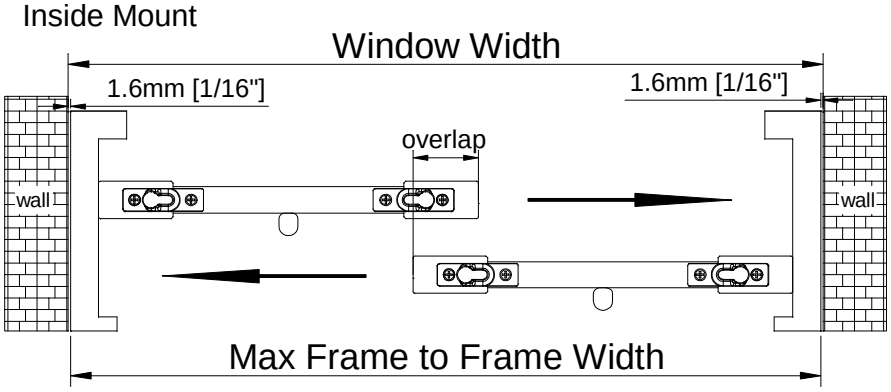
Outside Mount



Semi-Inside Mount



Inside Mount

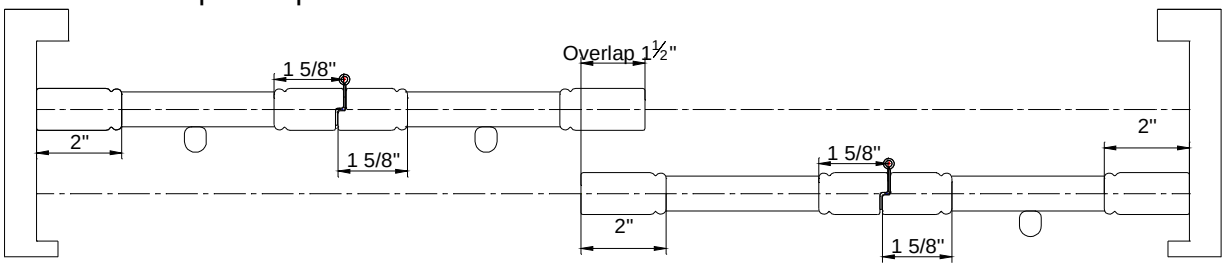


Track Shutters—2020 Bypass

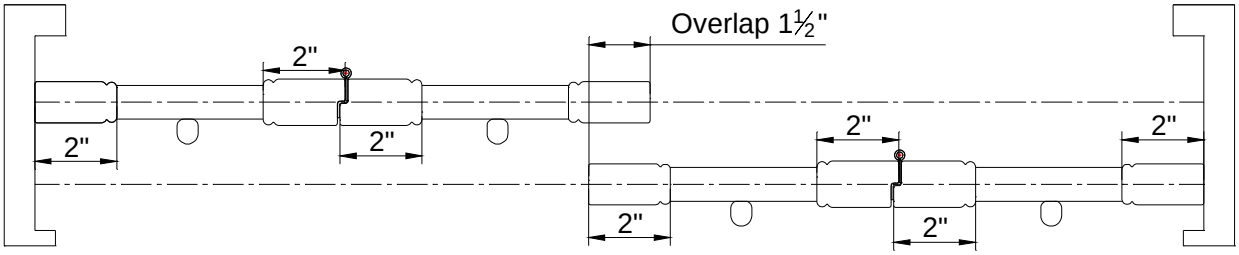
Top View

Combi - joined Panels:

For Non-Waterproof option:

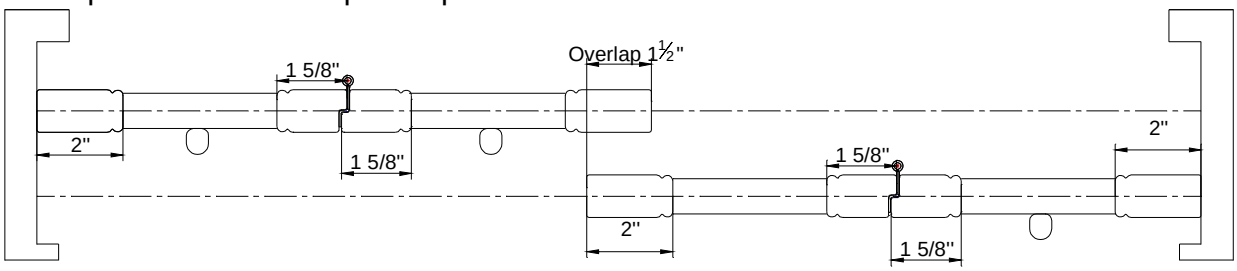


For Waterproof option:

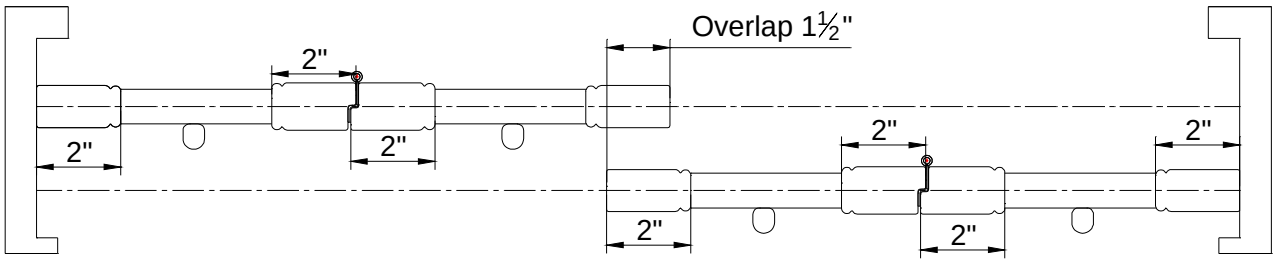


For shutters with 4 or more panels, please select “side open” or “center open”

Side Open for Non-Waterproof option:

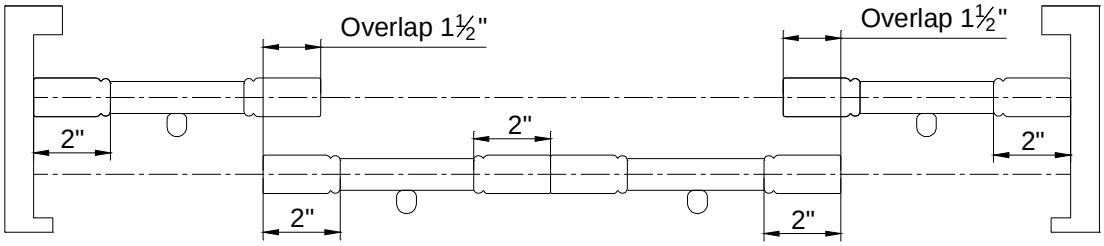


Side Open for Waterproof option:

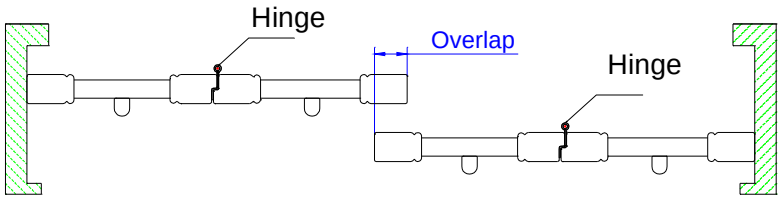


Track Shutters—2020 Bypass

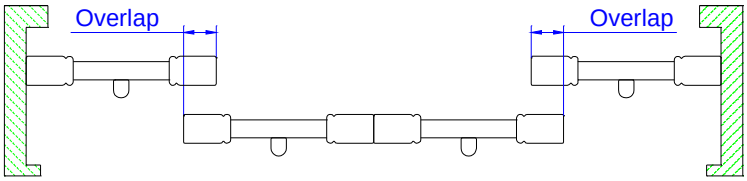
Center Open



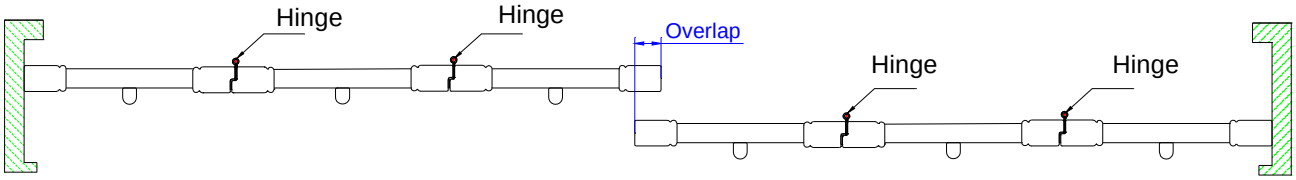
4 panels side open w/Rabbet stile



4 panels center open w/Butt stile



6 panels side open w/Rabbet stile

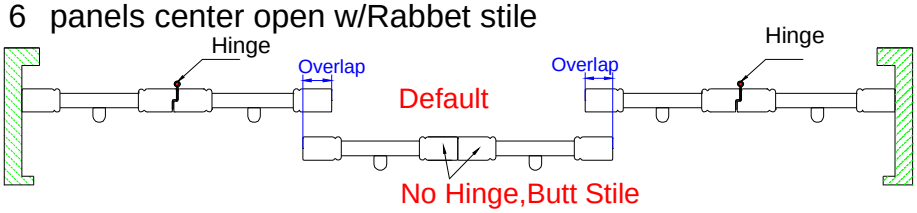


Track Shutters—2020 Bypass

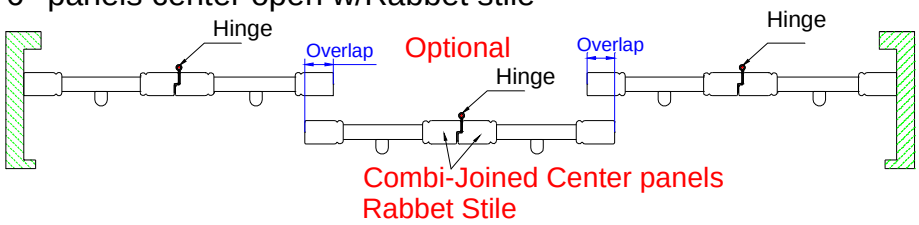
For 6 panels center open configurations, the center panels should split (1/1) by default with the option for them to be combi-joined into a single 2 panel section.

Center open Front:

6 panels center open w/Rabbet stile

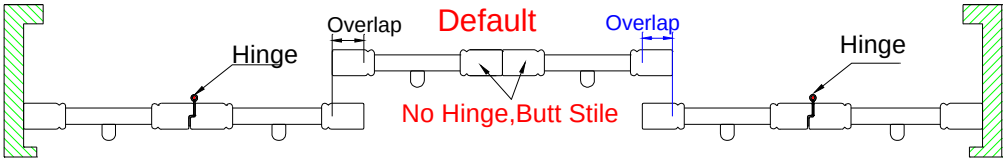


6 panels center open w/Rabbet stile

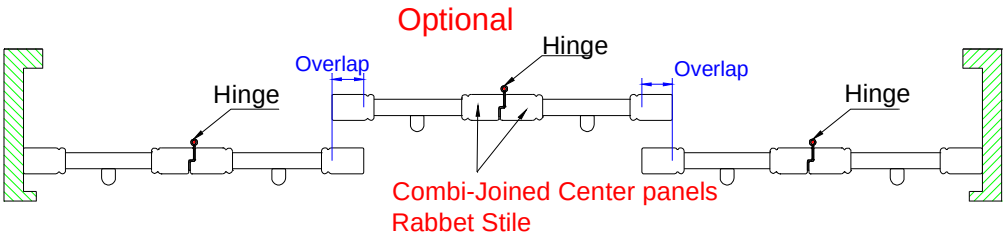


Center open Back:

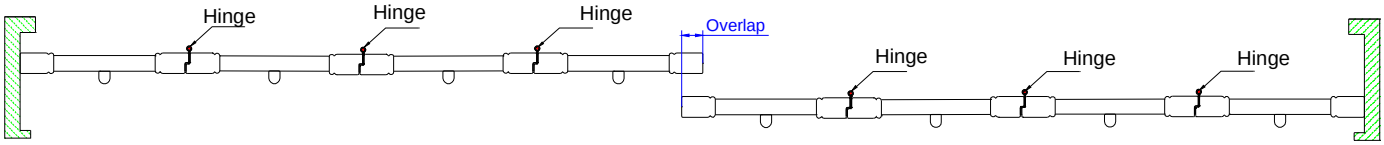
6 panels center open back w/Rabbet stile



6 panels center open back w/Rabbet stile



8 panels side open w/Rabbet stile

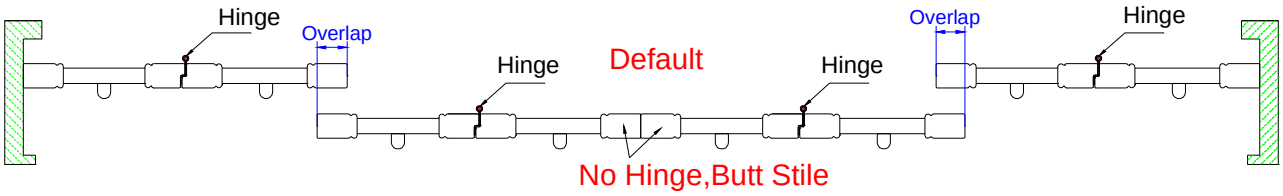


Track Shutters—2020 Bypass

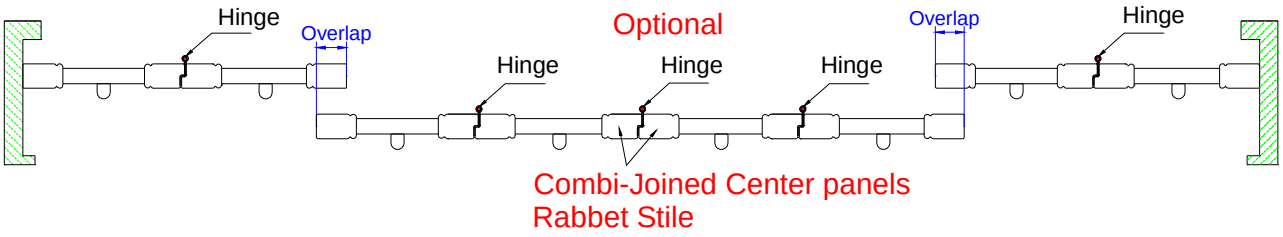
For 8 panels center open configurations, the center panels should split (2/2) by default with the option for them to be combi-joined into a single 4 panel section.

Center open Front:

8 panels center open w/Rabbet stile

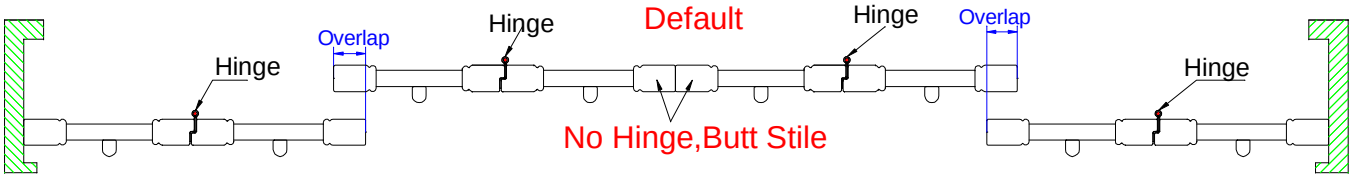


8 panels center open w/Rabbet stile

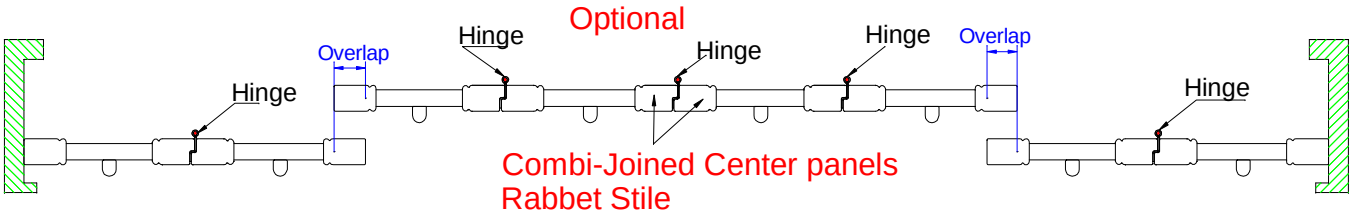


Center open Back:

8 panels center open back w/Rabbet stile



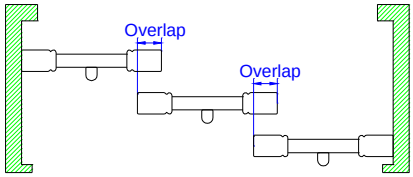
8 panels center open back w/Rabbet stile



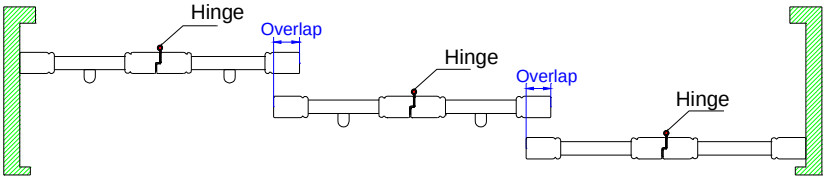
Track Shutters—2020 Bypass

Triple Track

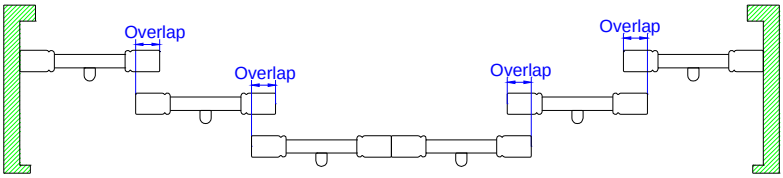
3 panels side open w/Butt stile



6 panels side open w/Rabbet stile



6 panels center open w/Butt stile



Stile: Only 2” butt and rabbet stiles are available for Waterprooof Shutter;

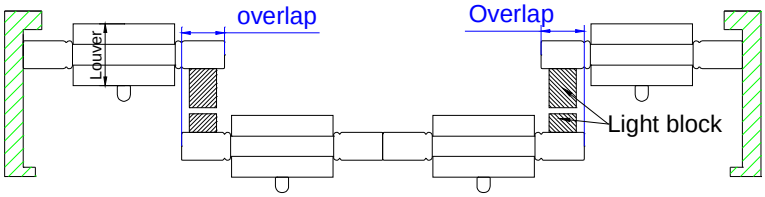
Only 2” / 2 1/4” butt and rabbet stiles are available for non-Waterproof shutter;
1 5/8” rabbet stile only used for combi-joined panels for non-motorized shutter and
2 1/4” rabbet stile only used for combi-joined panels for motorized shutter.

Center stile is not available.

Open Bypass:

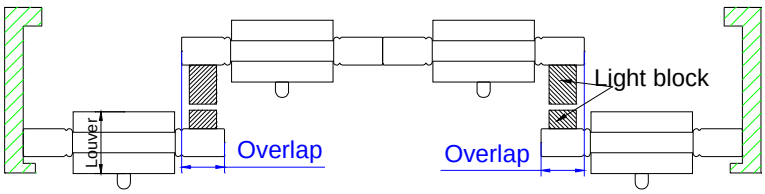
4 panels center open front w/Butt stile

center open front



4 panels center open back w/Butt stile

center open back

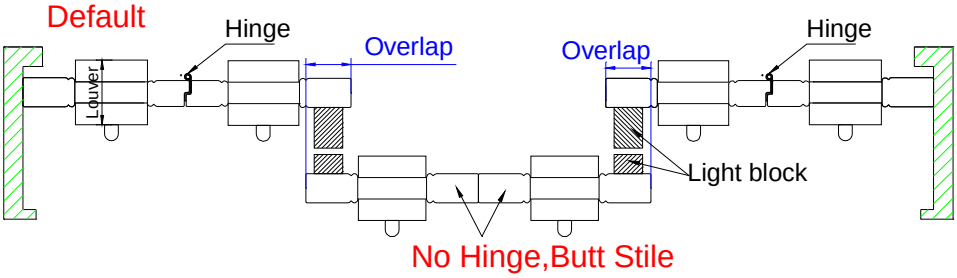


Track Shutters—2020 Bypass

center open front

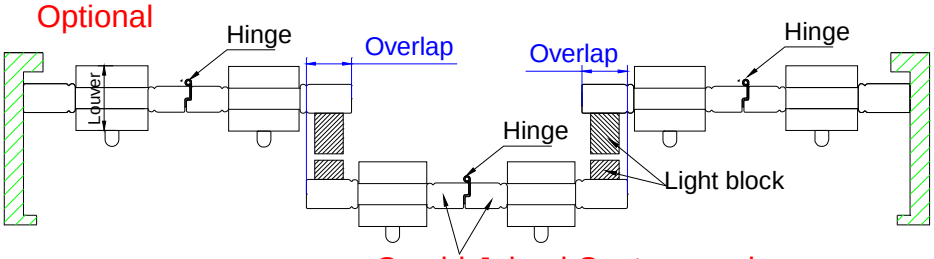
6 panels center open front w/Rabbet stile

Default



6 panels center open front w/Rabbet stile

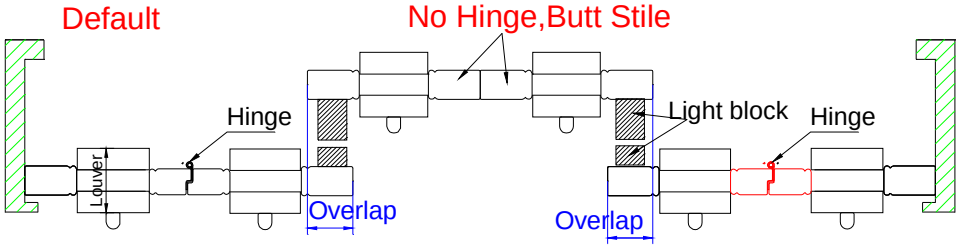
Optional



center open back

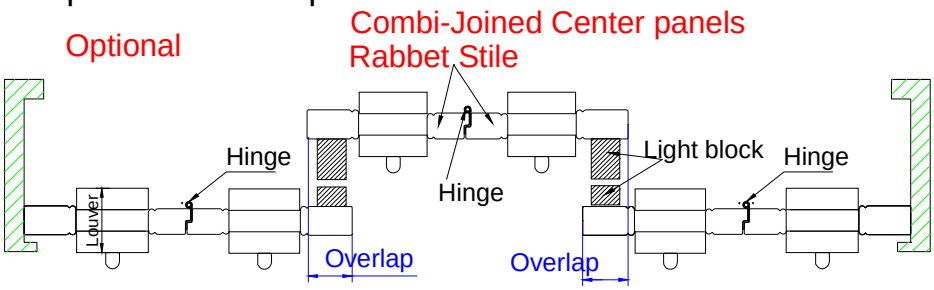
6 panels center open back w/Rabbet stile

Default



6 panels center open back w/Rabbet stile

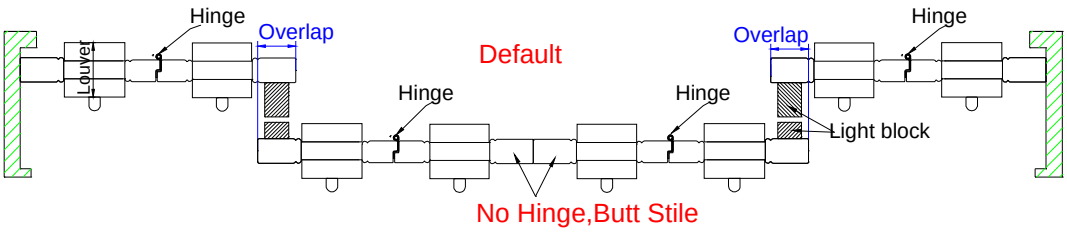
Optional



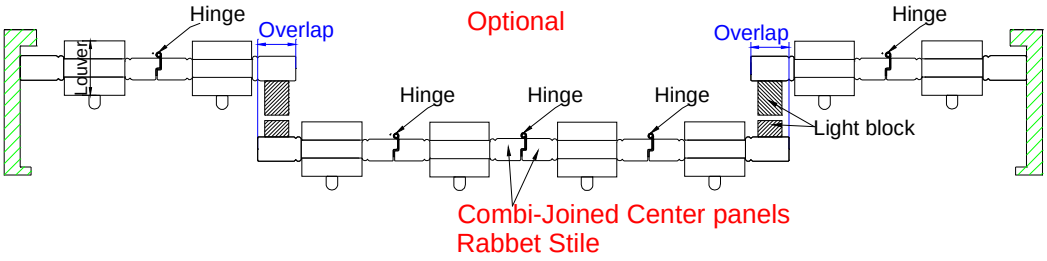
Track Shutters—2020 Bypass

center open front

8 panels center open front w/Rabbet stile

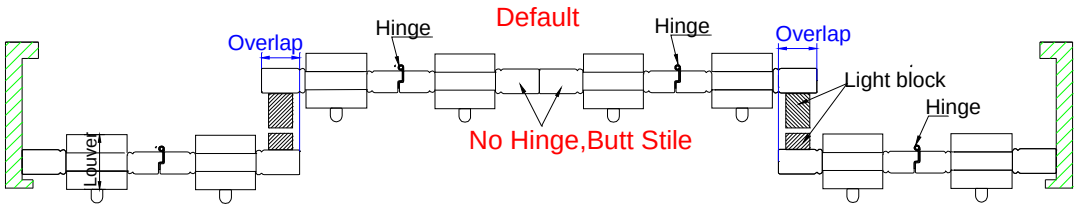


8 panels center open front w/Rabbet stile

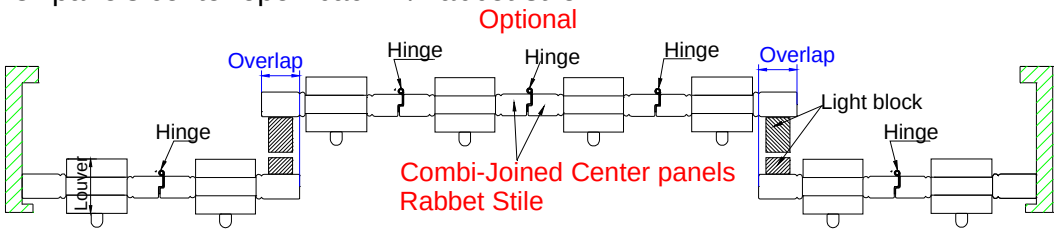


center open back

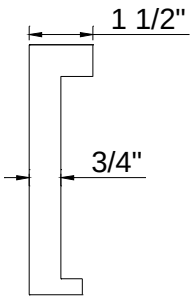
8 panels center open back w/Rabbet stile



8 panels center open back w/Rabbet stile

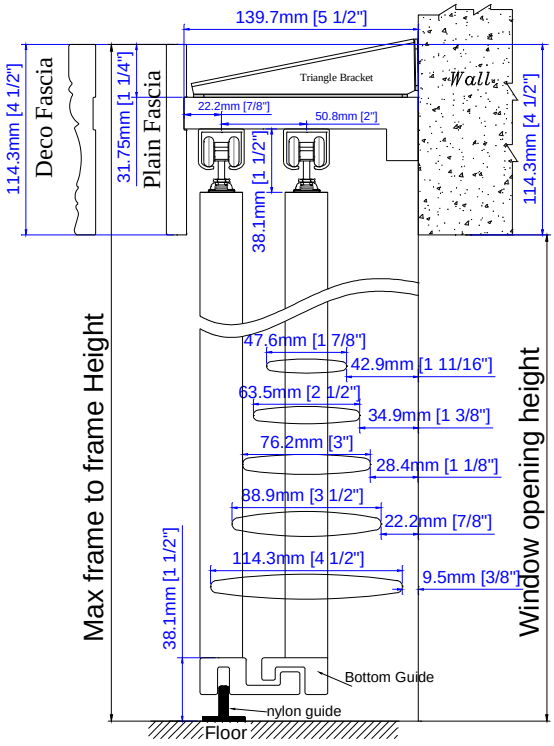


Note: The boxout frame's "Side Frame" as well as panel overlap are additional factors that will effect the individual panel width calculation.
Side Frame = ¾" thickness on each side
Panel overlap will be 1 1/2" for 2" stile and 1 3/4" for 2 1/4"stile;



Track Shutters—2020 Bypass

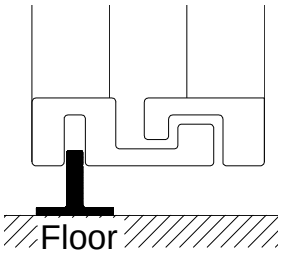
Mounting Options (Closed Bypass)



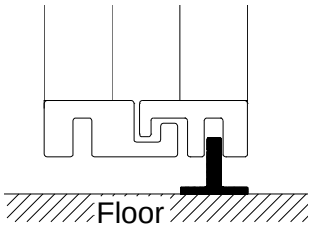
Outside Mount

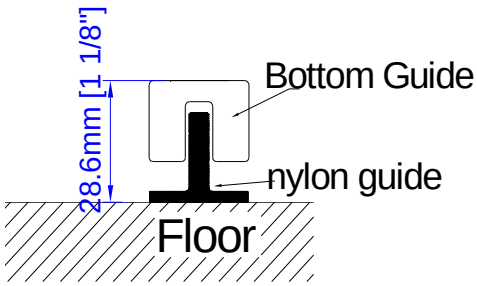
Side View

Bottom Guide
For non-waterproof

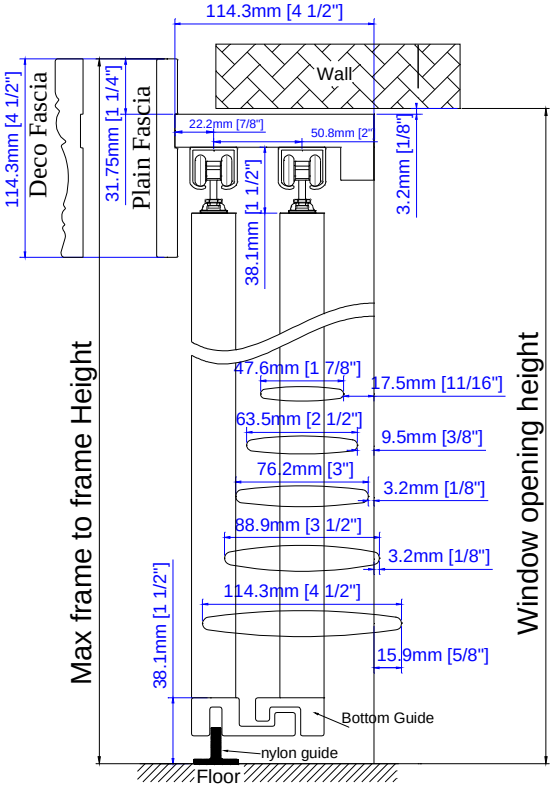


Bottom Guide
For Waterproof option

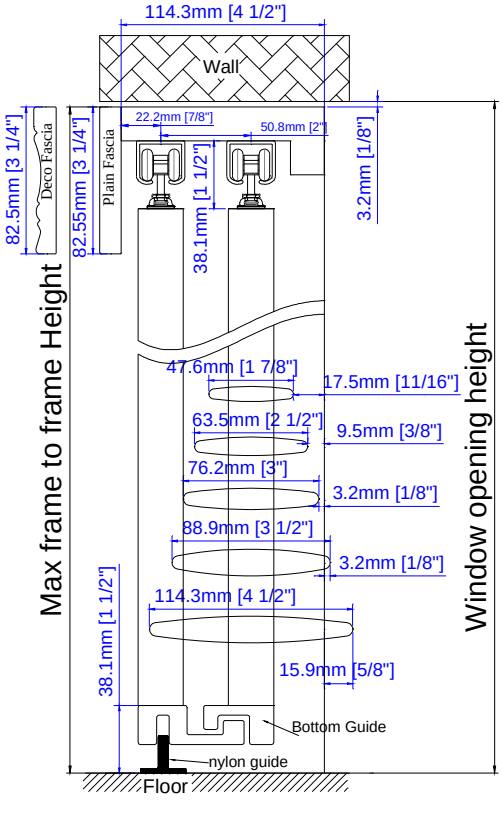




If the closed bypass only uses one track, the U-shaped bottom guide for the open bypass will be used at the bottom of the panel.



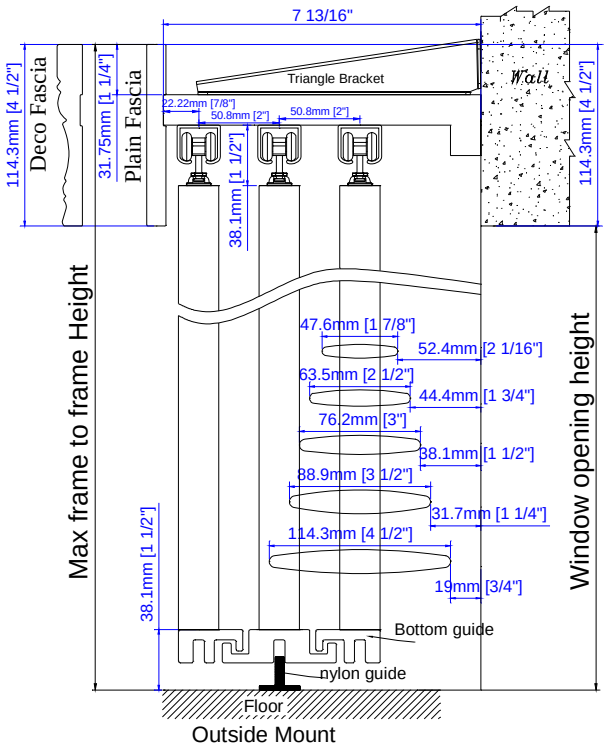
Semi-inside Mount



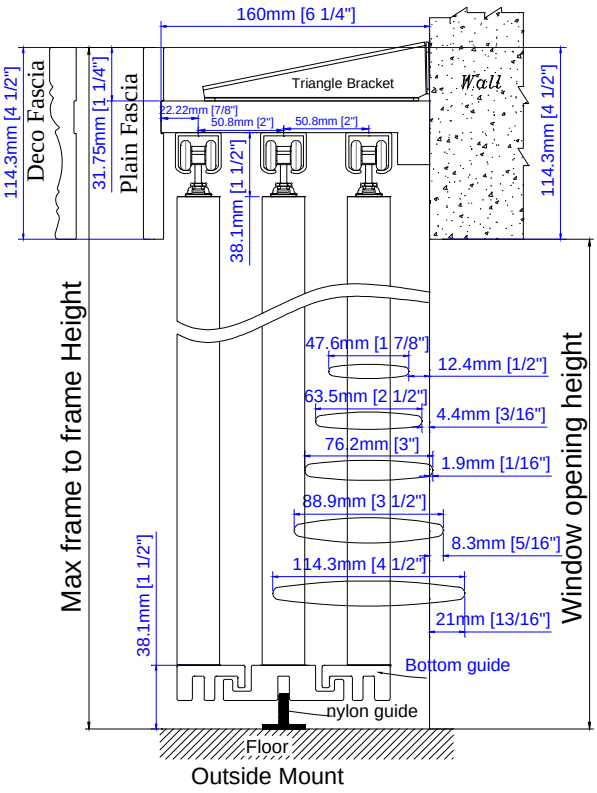
Inside Mount

Track Shutters—2020 Bypass

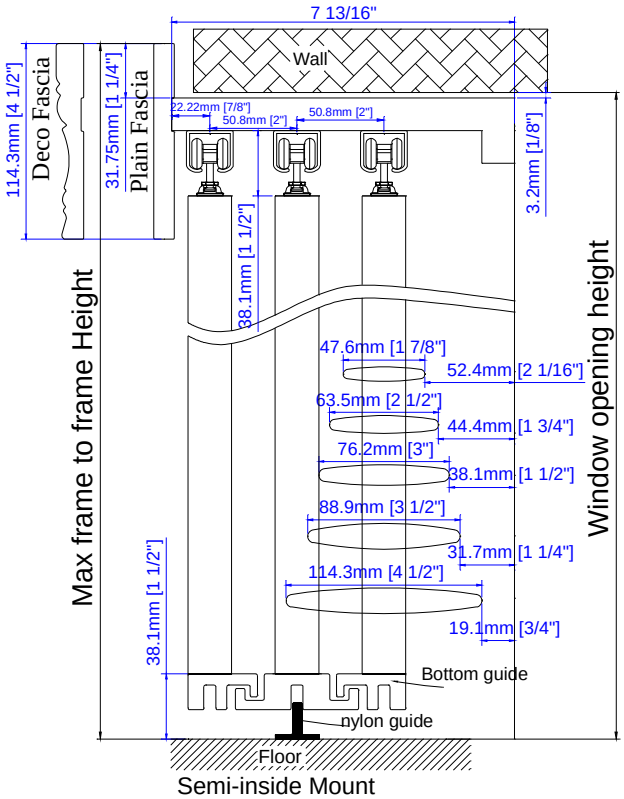
Mounting Options (Closed Bypass with 3 Tracks, Triple tracks):



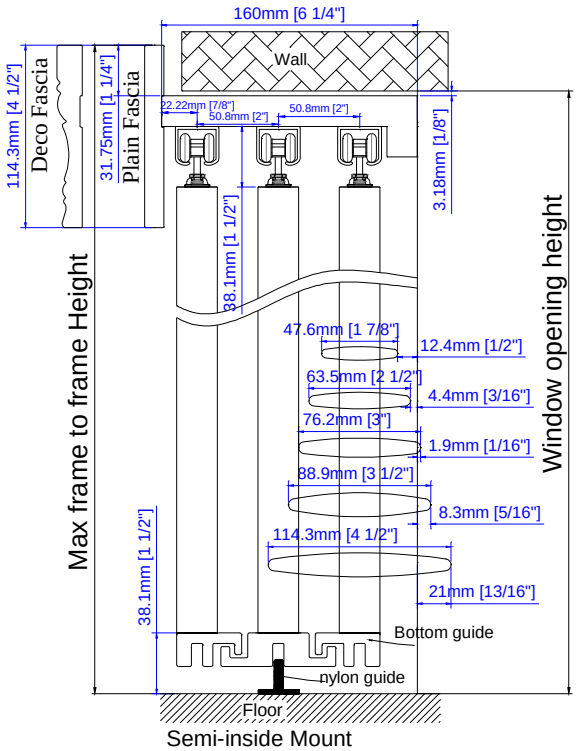
Outside Mount



Outside Mount

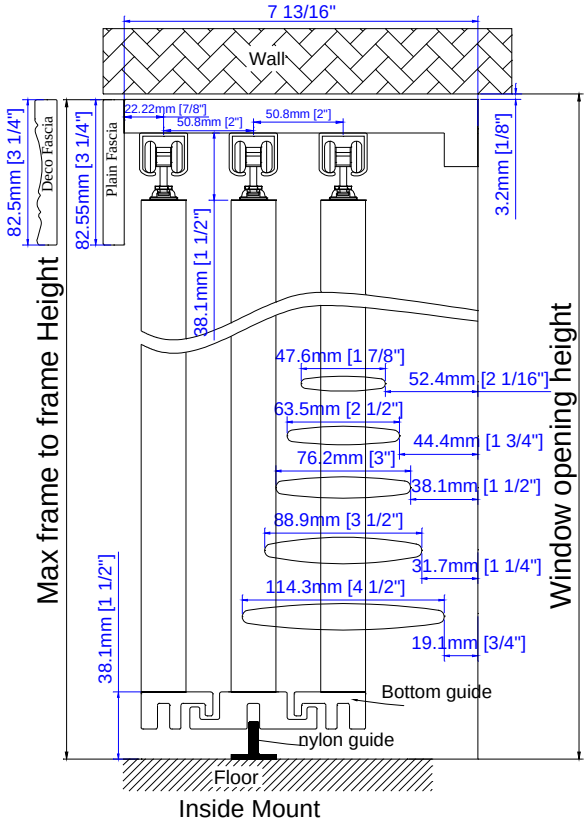


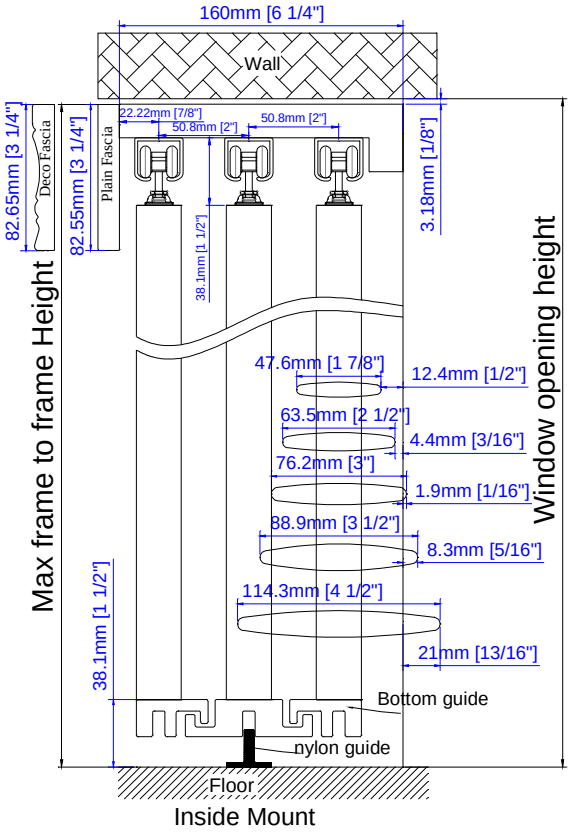
Semi-inside Mount



Semi-inside Mount

Track Shutters—2020 Bypass

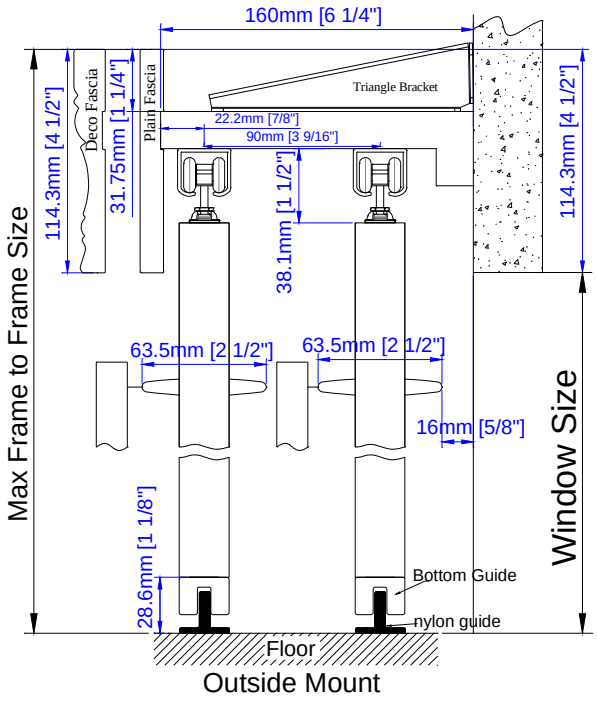


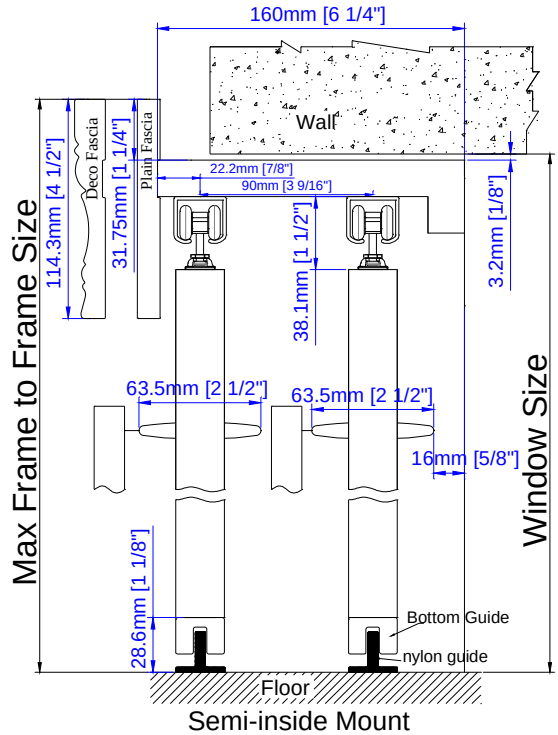


Mounting Options (Opened Bypass)

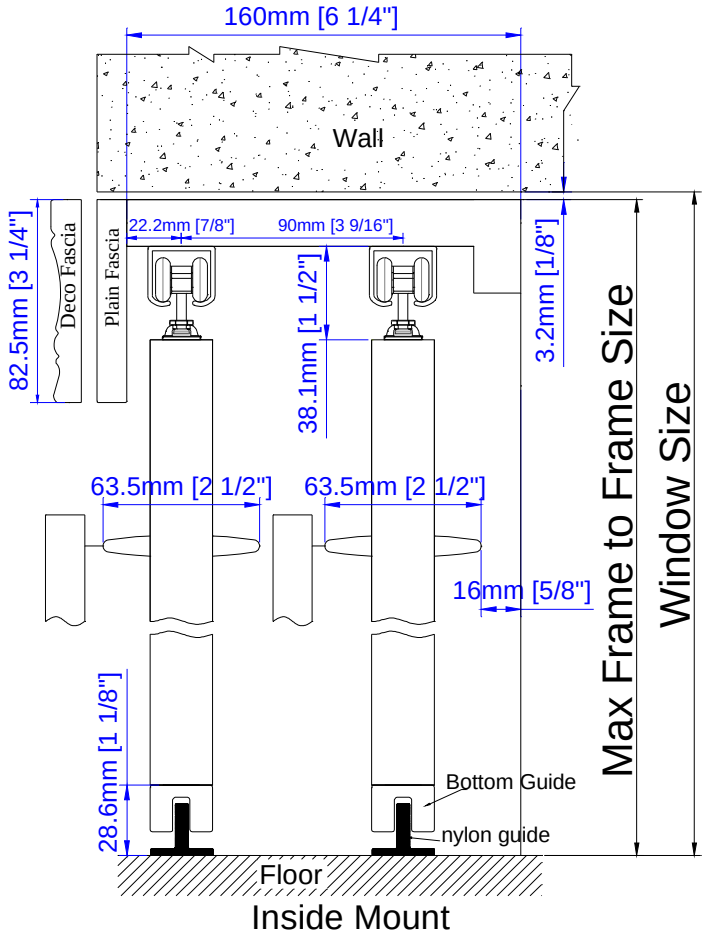
Only available in 2 ½”, 3” and 3 ½” louver sizes

2 ½” Louver

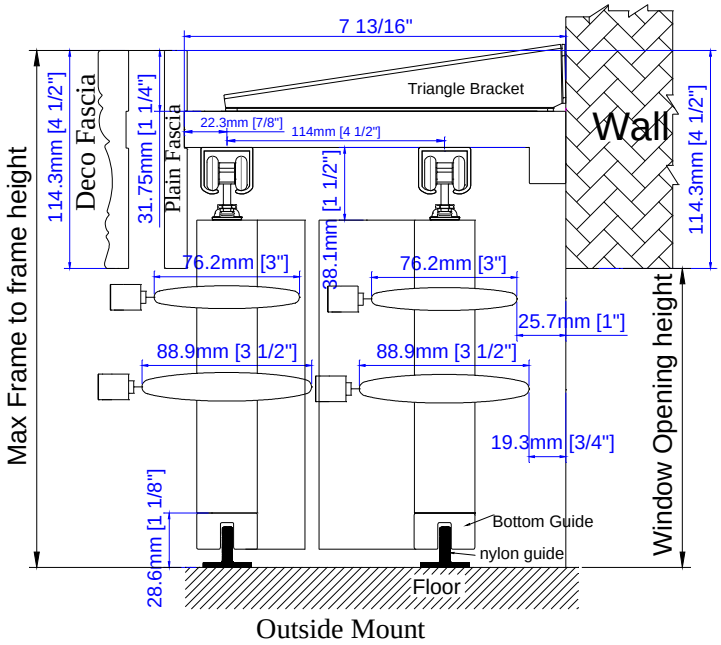


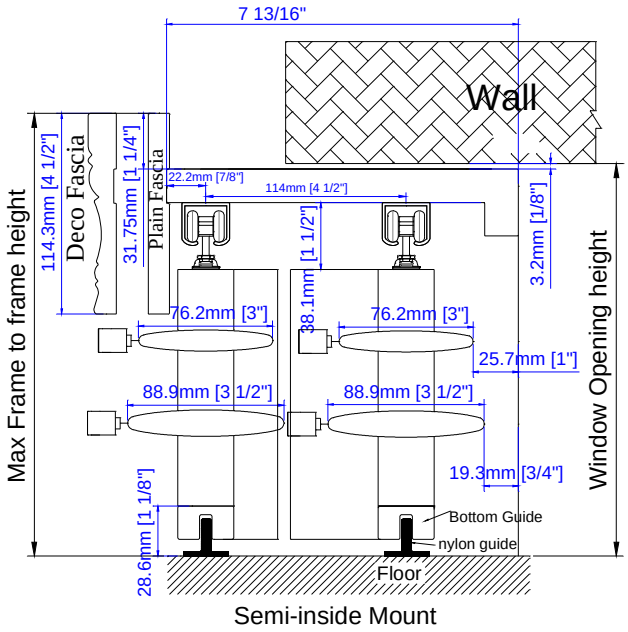


Track Shutters—2020 Bypass

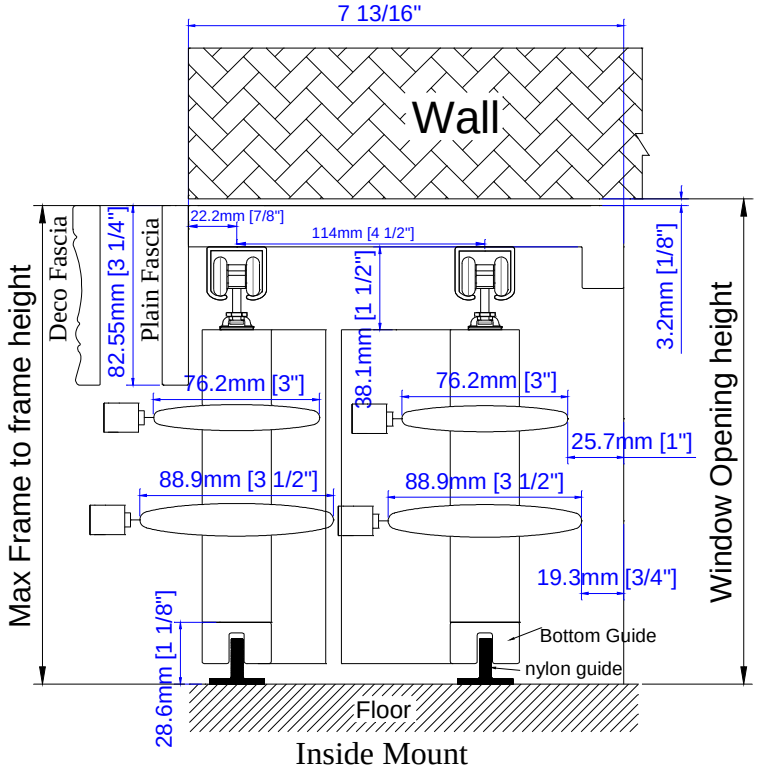


3” / 3 ½” Louver





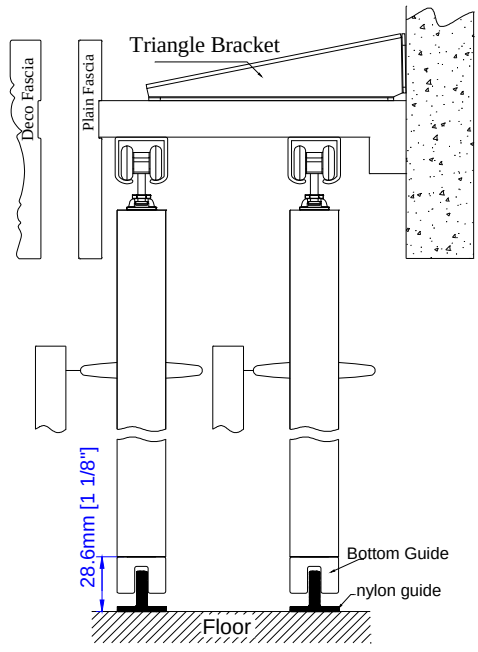
Track Shutters—2020 Bypass



Inside Mount

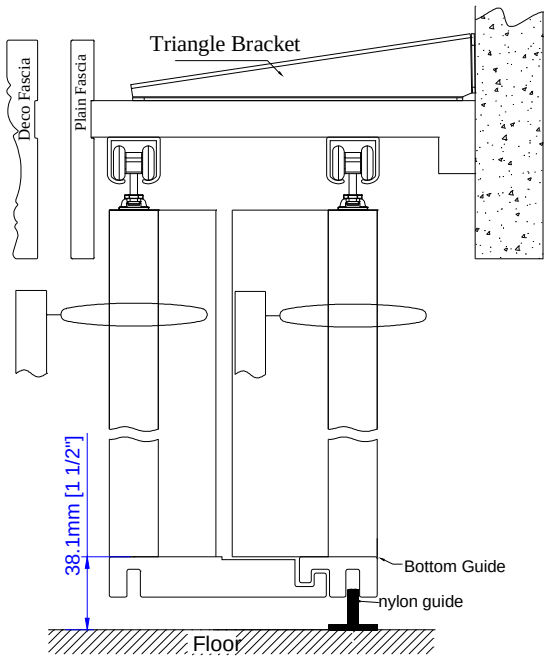
Bottom guide for Open ByPass:

Default Bottom Guide



Default Bottom Guide

Optional Interlocking Bottom Guide

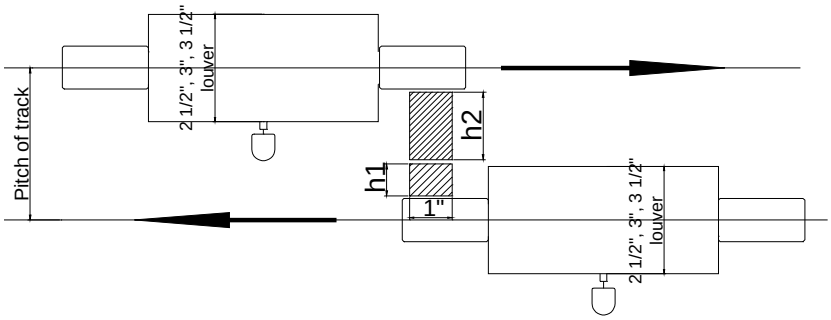


Optional Interlocking Bottom Guide

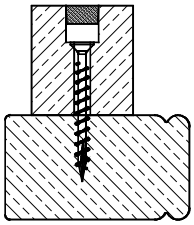
Track Shutters—2020 Bypass

Opened Bypass

Top View



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



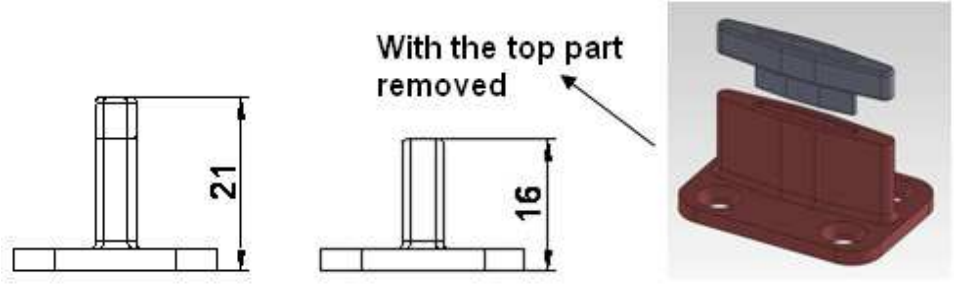
Separation of track

Louver	U shape bottom guide		Interlocking bottom guide	
	Regular Tilt Rod	InvisibleTilt®	Regular Tilt Rod	InvisibleTilt®
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"

Light block thickness for panel

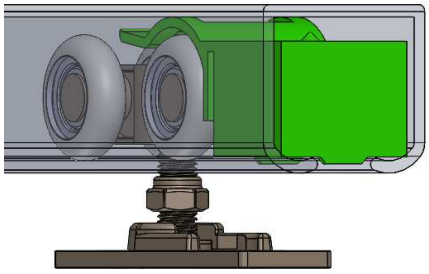
Louver		U shape bottom guide		Interlocking bottom guide	
		Regular Tilt Rod	InvisibleTilt®	Regular Tilt Rod	InvisibleTilt®
2.5"	h1	3/4"	3/4"	3/4"	1 9/16"
	h2	1 9/16"	3/4"	1 9/16"	3/4"
3” / 3.5"	h1	1 3/16"	1 3/16"	1 3/16"	1 15/16"
	h2	1 15/16"	1 3/16"	1 15/16"	1 3/16"

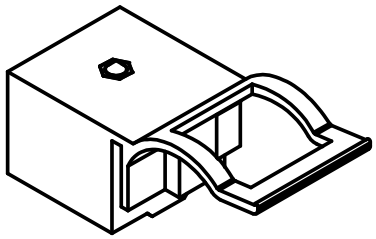
Nylon Guide: The nylon guide is composed by 2 parts and will supplied as a whole set by default (bottom part 16mm and top part 5mm), please remove the top part if necessary.

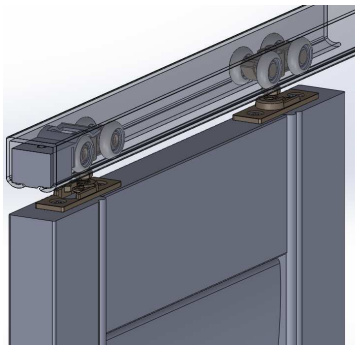


Track Shutters—2020 Bypass

The 2020 Stopper

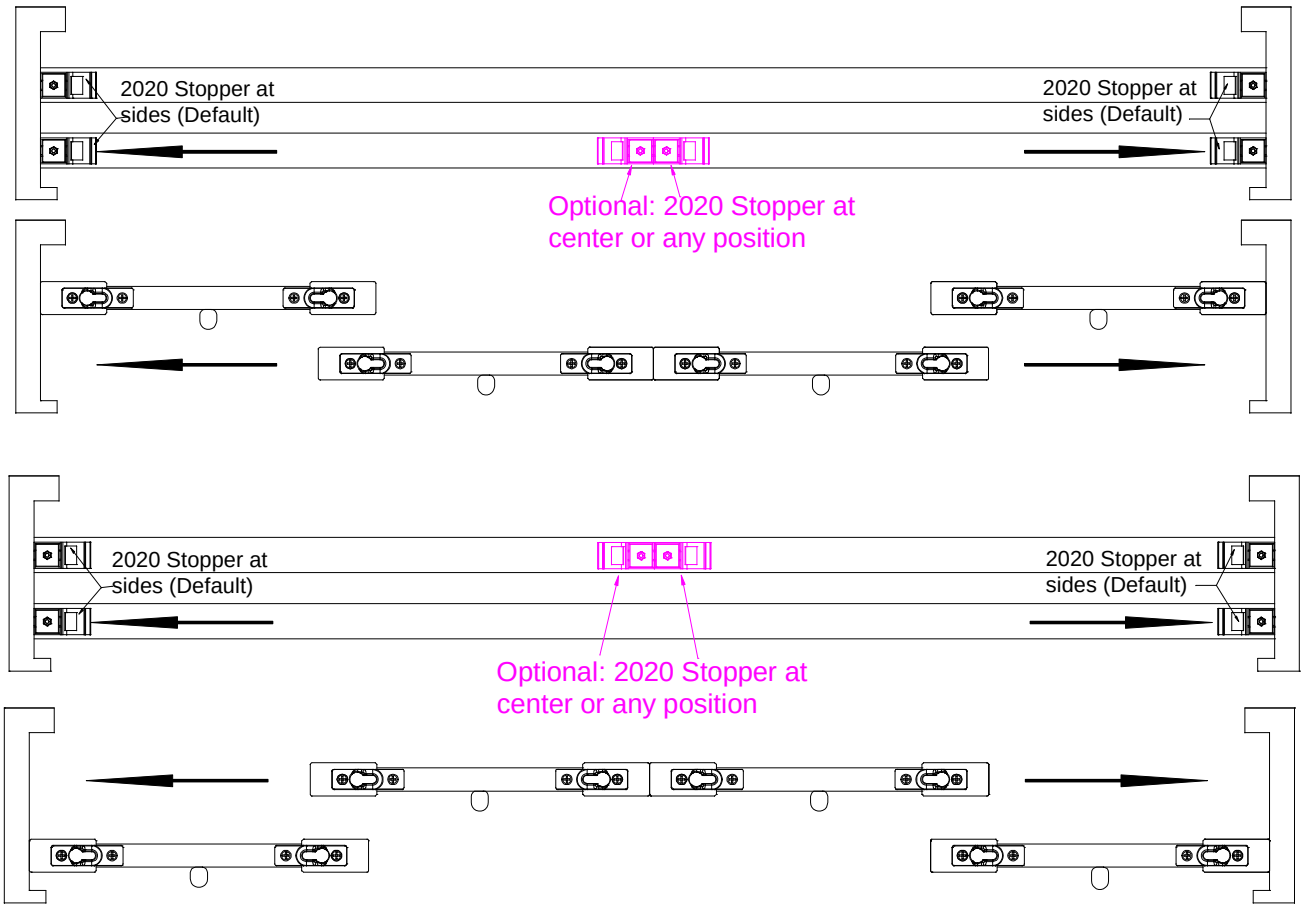






Note: 2020 Stopper will be supplied at both ends of top track by default.

The 2020 stopper can also be used in the center or any position of the top track as an option. Please specify the actual position when placing an order.



Track Shutters—2020 Bypass

Track Shutters Framing Materials (For waterproof option, only plain fascia is available)

<table>
<tr><th>Framing</th><th colspan="4">Size</th><th>Pc(s)</th></tr>
<tr><td>L Shape Header</td><td>Header (Closed Bypass)</td><td>Header (Opened Bypass)</td><td colspan="2">Supporting Strip</td><td rowspan="3">1 pc</td></tr>
<tr><td>(2 in 1)</td><td>¾" x 5½"*
(Default for Outside Mount; Optional for Semi-Inside and Inside Mount)</td><td>¾" x 6¼"*
(2½" Louver)</td><td colspan="2" rowspan="2">¾" x ¾"</td></tr>
<tr><td>Header with Supporting Strip</td><td>¾" x 4½"*
(Default for Semi-Inside and Inside Mount;
Optional for Outside Mount)</td><td>¾" x $7^{13}/_{16}$"*
(3”, 3½" Louver)</td></tr>
<tr><td></td><td>Custom * ≤ 8"</td><td>Custom * ≤ 8"</td><td colspan="2"></td></tr>
<tr><td>U Shape Side Frame</td><td>Side Frame (Closed Bypass)</td><td>Side Frame (Opened Bypass)</td><td>Supporting Strip</td><td>Side Fascia</td><td rowspan="3">2 pcs</td></tr>
<tr><td>(3 in 1)</td><td>¾" x 5 7/8"*
(Default for Outside Mount; Optional for Semi-Inside and Inside Mount)</td><td>¾" x 6 ⅝"*
(2½" Louver)</td><td rowspan="2">¾" x ¾"</td><td rowspan="2">⅜" x 1¼"</td></tr>
<tr><td>Side Frame with Supporting Strip & Side Fascia</td><td>¾" x 4 7/8"*
(Default for Semi-Inside and Inside Mount; Optional for Outside Mount)</td><td>¾" x 8¼"*
(3”, 3½" Louver)</td></tr>
<tr><td></td><td>Custom * ≤ 8"</td><td>Custom * ≤ 8"</td><td colspan="2"></td></tr>
<tr><td rowspan="2">Top Fascia (Plain/Deco)</td><td colspan="4">4 1/2" (Semi-inside and Outside Mount)</td><td rowspan="2">1 pc</td></tr>
<tr><td colspan="4">3 1/4” (Inside Mount)</td></tr>
<tr><td rowspan="2">Top Fascia Return</td><td colspan="4">4 1/2" (Semi-inside and Outside Mount)</td><td rowspan="2">2 pcs</td></tr>
<tr><td colspan="4">N/A (Inside Mount)</td></tr>
</table>

Note:

- When the header size is 4½"*, 5½"*, 6¼"* or $7^{13}/_{16}$"*, 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 4½"*, 5½"*, 6¼"* or $7^{13}/_{16}$"*, 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;

Track Shutters—2020 Bypass

2. The side frame, supporting strip and the side fascia will be sent separately for U Shape Side Frame.

- Custom Boxout Width is available for both closed and opened bypass shutters.

- For Outside Mount Bypass, the maximum custom header depth is 8”, and the maximum possible header depth with an extension can be up to 8 5/8”. When the standard boxout / header depth is 7 13/16”, a custom extension up to ¾” can be added to the header depth.

- For Inside Mount and Semi-Inside Mount Bypass, the custom header size can reach to 8”, and the extension thickness of header can reach to 2”.

Hardware Box

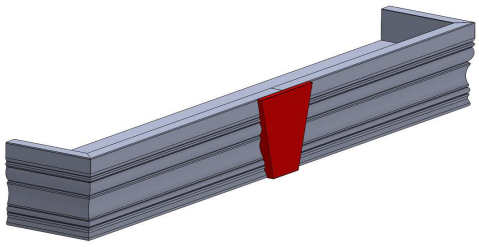
Hardware Box
Part
Wrench
Nylon Guide
¾ " screws for Nylon Guide
Triangle Bracket (based on the length of header)
2” screws for Triangle bracket
3/4” screws for Triangle bracket

Keystone for Fascia of the Track Shutter

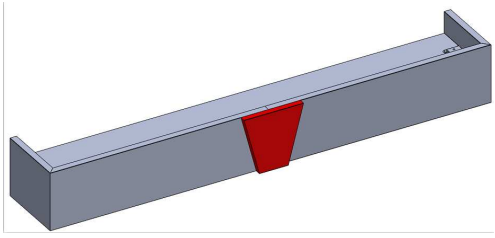
When fascia length exceeds the limitation and needs to split, keystone design fascia will be supplied without surcharge for track shutters.

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

For Deco Fascia:

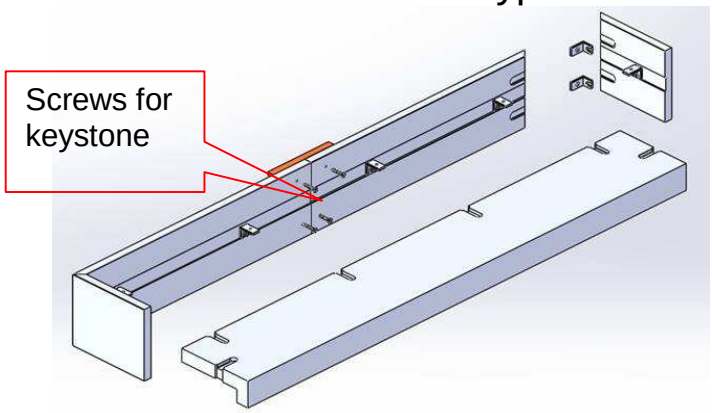


For Plain Fascia:



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—2020 Bypass

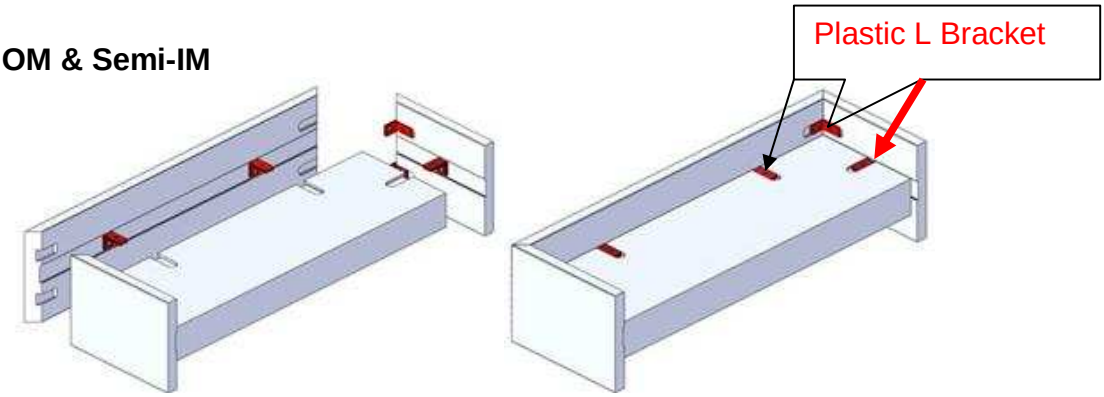


Plastic L Bracket to Connect the Header, Fascia & Fascia Returns



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.

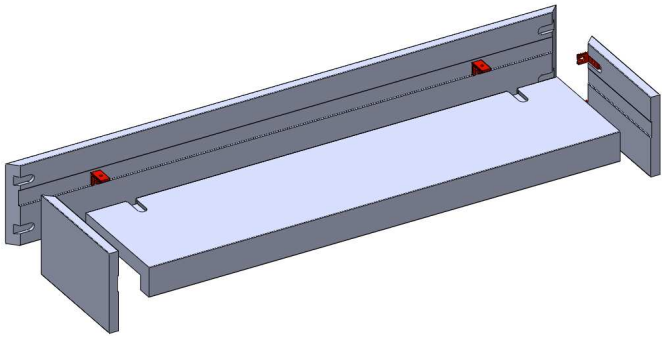
OM & Semi-IM

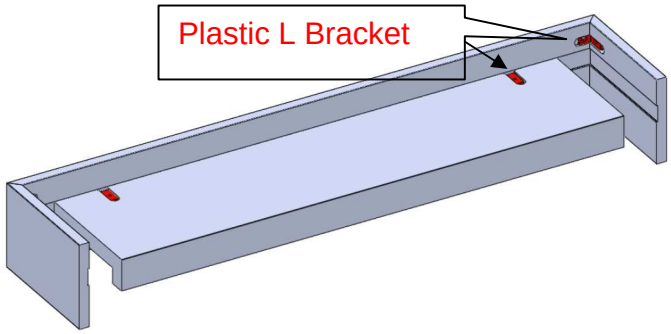


When the custom top fascia length is longer than the header length, the portion that extends beyond the header will be shared evenly between the left & right side. A plastic L bracket will be used for connecting the header to the top fascia, and also for connecting the fascia returns to the fascia. In this situation when there is a gap between the header and the fascia returns, there will not be a groove at the left and right ends of the header. Please refer to the following drawings:

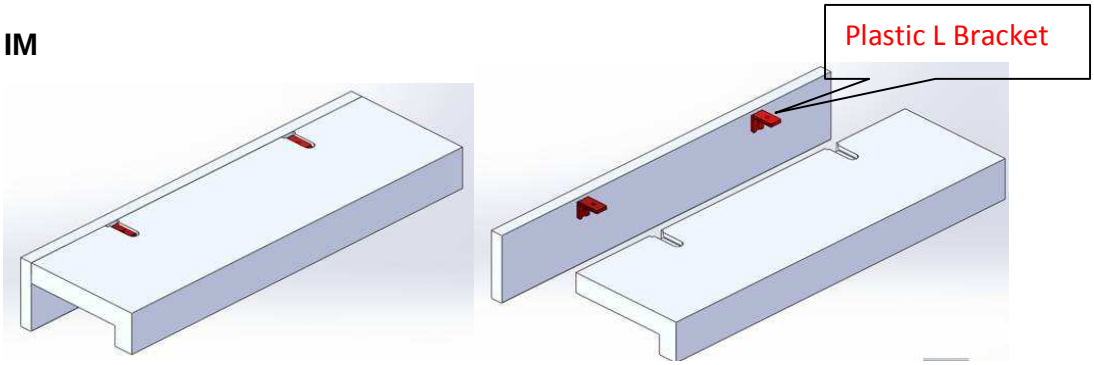
Track Shutters—2020 Bypass







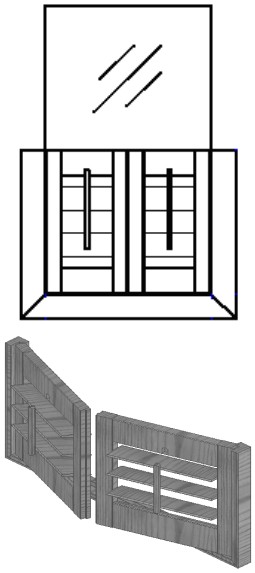
IM

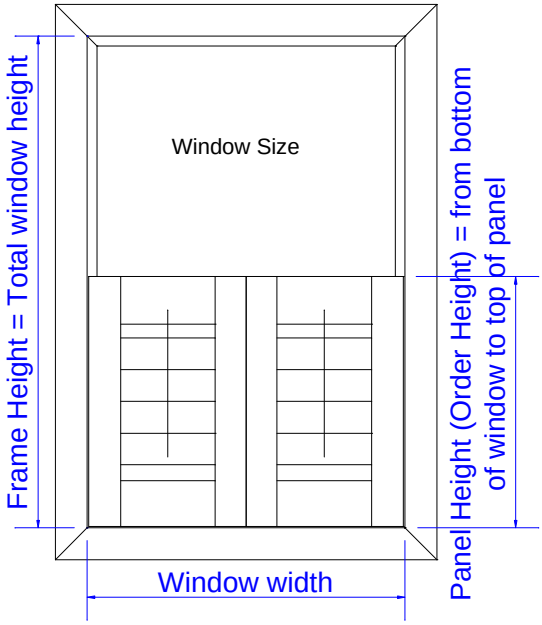


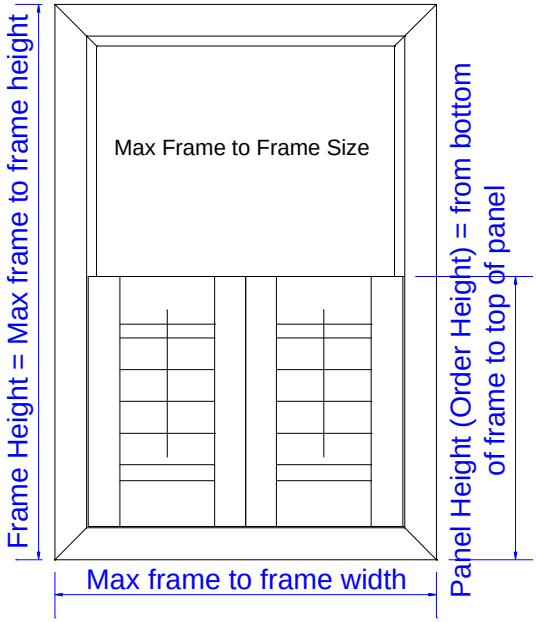
Special Options

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.

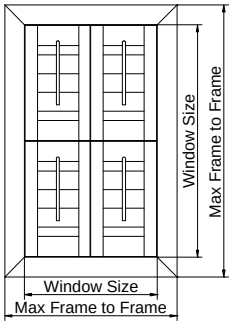


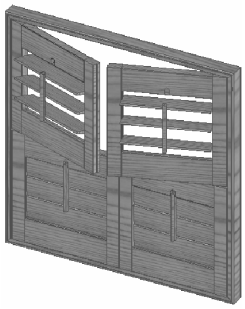




Double-Hung Shutters*

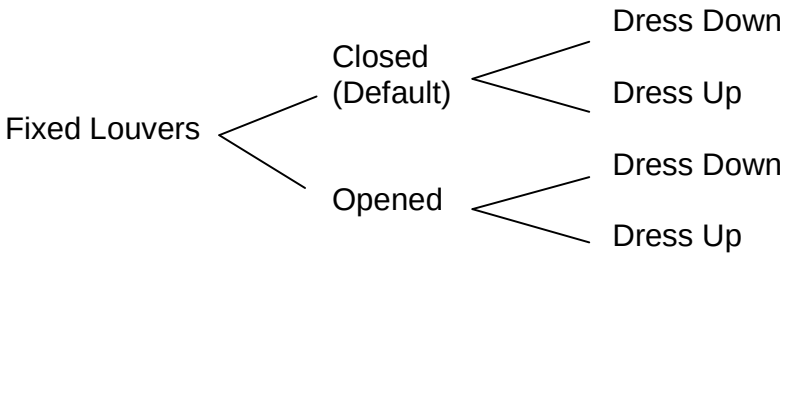
- For total number of panels, please include panels in both rows.
- Bifold panel is not available under this option.
- For panel configuration, please provide panel fold for one row.
- The default location for the division point is the center unless specified otherwise.
- Horizontal T Post* can be added for increased structural integrity.
- The length of Horizontal T post in each section must be less than or equal to 48”.
- For Double Hung shutter, whenever an upper or lower panel is larger than 78”, we will add one more extra hinge for it, we will also attempt to create larger top/bottom rails for additional strength by reducing the number of louvers by one as long as the rail sizes remain within spec.
- Bifold panel configuration (including LL/RR/LLRR) is not available for Double Hung.

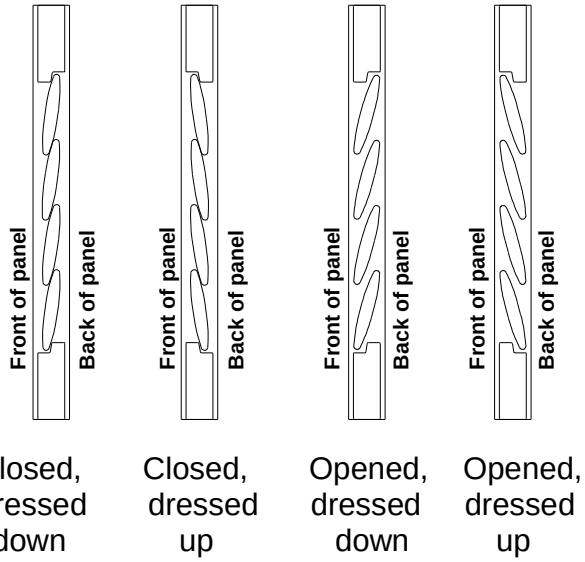




*Some surcharges apply

Fixed Louvers





Fixed louvers Closed Dress Down and Fixed louvers Opened Dress Down are not available for all specialty shutters except all French Door Type E,F and Type A,B,C&D without fixed louver(s) which did not choose “Arch type” option.

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.

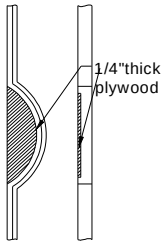
- All French door cutouts are only available in L frame except Type E and F. The batten is placed behind the Type E/F panel to block light.

.

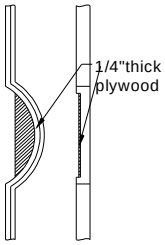
Louver size	Batten Width	Batten thickness
1 7/8” & 2 1/2”	3/4”	1”
3” & 3 1/2”	3/4”	1 3/8”
4 1/2”	3/4”	1 7/8”

- 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.
- Vintage L frame with 1/4” light block, Beaded L frame with 1/4” light block, and Deep Plain L frame are not available for French door Type A, B, C & D.

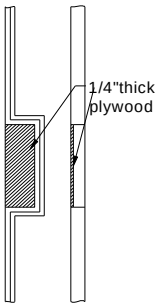
*Some surcharges apply



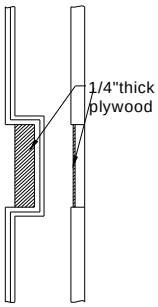
Type A



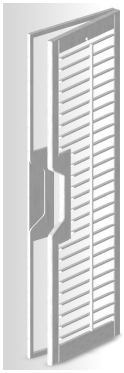
Type B



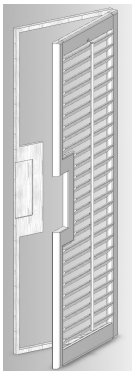
Type C



Type D



Type E



Type F

- **Type E & Type F are Not available for Waterproof Woodlore plus.**

Custom Colors *

Available in Woodlore® plus, Woodlore® plus Waterproof shutters.

Option (Color Code)	**Sample Size**	**<u>Confirmation Process</u>**
Custom Solid (C01)	A 4"x4" coated foam core or poster board.	All orders require customers to confirm an **actual swatch** which will be returned in the mail before production will commence. An additional shipping and handling fee applies.

***Samples sent to the factory will not be returned.**

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) Custom color does not apply to hardware or accessories.

5) For custom color orders, please provide a color sample in the form of: a 4” x 4” coated foam core, a poster board if you are requesting a custom paint color, or a raw shutter louver if you are requesting a custom stain color. You are able to send in your custom color sample in a format that does not fit the three listed forms; however, please anticipate a longer lead time as the custom color sample may be required to be processed through customs. In the event that you are sending in a custom color sample that is not in the three listed formats, providing any supplemental details about the sample will assist us in getting the right color quickly, e.g. material, the Latin scientific name of the material, detail

Size, a photo of the color sample, the package method, net weight, whether a premium is included in the value, certificate of origin, plant inspection certificate etc.

Due to varying materials corresponding to different colors, if a custom color sample is sent in, we will match the color on a louver and send the physical louver sample to you for confirmation. In order to streamline the process, in the event that the color variation between the physical louver swatch and the custom color sample falls outside of our acceptable range, we will verify the color digitally first with you before mailing the physical color swatch for final confirmation.

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
are registered trademarks or trademarks of their respective owners. All other trademarks mentioned herein are the property of Norman International, Inc. and/or its affiliates in the U.S. and certain other countries. Reference herein to the commercial products or service of others by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement.

∗For better tracking and minimal customs delays we recommend using Fedex/DHL. Please do not use the USPS - United States Postal Service.

There are two locations you may ship your **Custom stain or Paint sample** to:

DELIVER TO CHINA FACTORY **For Custom Paint sample on foam core or poster board ONLY**	
Attention	Liu Ya Yi (Shutter Factory)
Company	NienMade (DongGuan) Window Fashions Co., Ltd.
	No. 1, Zhao Feng Industrial South Road, QiShi Town, DongGuan City, GuangDong Province China 523517
Telephone:	+86-769-867-16666

DELIVER TO CHINA FACTORY **For Custom Stain or Paint sample on Wood material ONLY**	
Attention	Mr. Wang
Company	Draco Logistics Co., Ltd.
	Unit 616, 6/F, Pacific Trade Centre No.2 Kai Hing Road Kowloon Bay, Hong Kong, China, 999077
Telephone:	26283018

*Some surcharges apply

Specialties

Specialty Shutters for Waterproof option:

Specialty shutters are made from waterproof ABS co-polymer, finished to match the beauty of all Norman shutters. Templates are required if it is an imperfect specialty. Please refer to Specialties and Template Requirement sections for details.

Continuous Arch is not available for Waterproof option.

Regarding frame with an insert or solid frame issue:

1). For Woodlore plus waterproof option, no matter which type of specialty shutters, 2” Camber deco frame will always be made as solid frame;

2). For Half Round Sunburst, Quarter Round Sunburst, Eyebrow Sunburst & Elongated Eyebrow Sunburst:
All Vintage L frames &1 1/2” Deep Bullnose Z frame & Deep Plain L frame: 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.

3). For Triangle, Hexagon, Octagon, Peak & Angle top: all Vintage L frames & 1 1/2” Deep Bullnose Z frame & Deep Plain L frame will be made as regular frames with inserts.

4). For Circle, Oval: all Vintage L frames & 1 1/2” Deep Bullnose Z frame & Deep Plain L frame will be made as solid frames (not with an insert).

5). For Sunburst on top with Divider strip: the top Vintage L frame & 1 1/2” Deep Bullnose Z frame & Deep Plain L 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 Louver Arch with Eyebrow curve shape:
All Vintage L frames & 1 1/2” Deep Bullnose Z frame & Deep Plain L 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;

7). 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 6), Horizontal louvers center arch with quarter round side panels(-Standard louvered 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 Vintage L frames &1 1/2” Deep Bullnose Z frame & Deep Plain L frame: 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.

8). Hang strip behind the panel is not available for Hexagon and octagon with horizontal louvers.
9). All sunburst hubs must be less than or equal to 12”.
10). If a requested half round sunburst arch will result in louvers that are out of spec, a center stile may be added in order to produce the unit.

Hardwood Specialty Shape

Specialty Shutters for non-waterproof option:

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. 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.

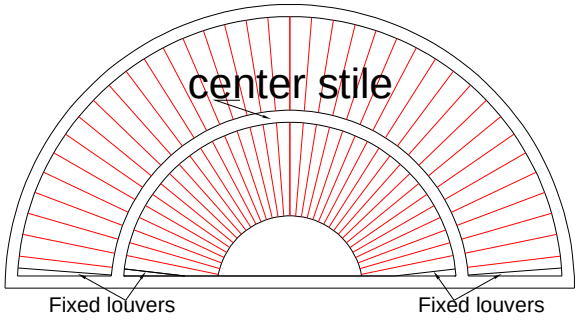
5). For Louver Arch with Eyebrow curve shape:

- 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;

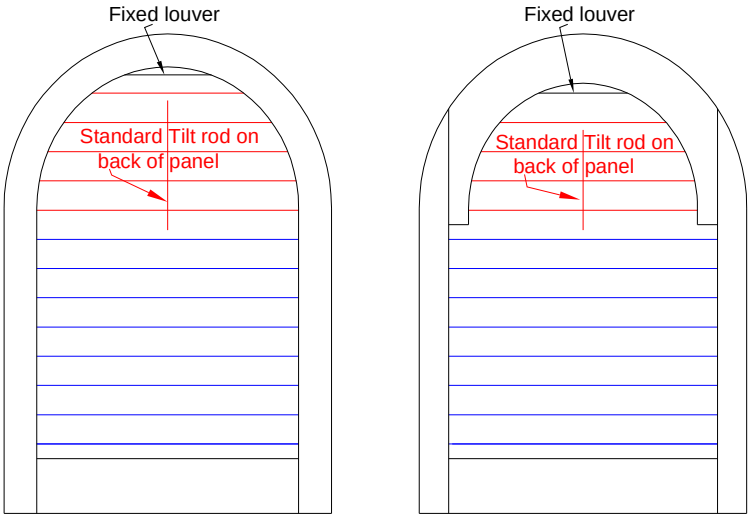
6). For other Specialty Shutters when curve shape is similar as perfect arch (such as Louver Arch except Louver Arch with Eyebrow curve shape in point 5), Horizontal louvers center arch with quarter round side panels(-Standard louvered arch & Continuous arch), Sunburst louvers center arch with quarter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

7). Tilt Out Z Frame is not available for “Frame Include In Rail” option.
8). Hang strip behind the panel is not available for Hexagon and octagon with horizontal louvers.
9). All sunburst hubs must be less than or equal to 12”.
10). If a requested half round sunburst arch will result in louvers that are out of spec, a center stile may be added in order to produce the unit.



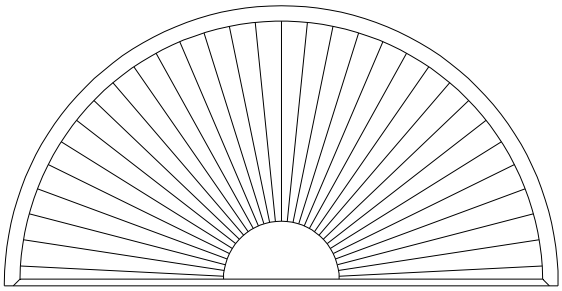
The louvers in the curved section can not be operated by the Invisible Tilt system. They can be independently operated by a separate standard tilt rod installed on back of the panel.



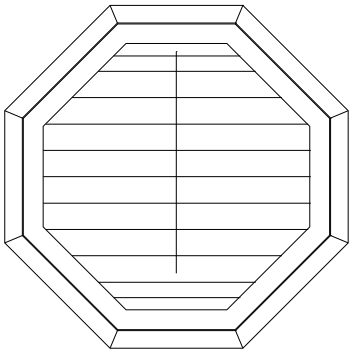
for non-waterproof option

Frame include in Rail (Z Frame only, exclude Tilt Out Z Frame)

With the frame included in rail option, there is no rail or stile on the panel. Instead, the panel's louvers are connected directly to the inside edge of the Z frame around the outer perimeter, so the Z frame acts as the "rail & stile". For this reason, the panel will not have any magnets or hinges, since it is a fixed panel.



Available frame types (non waterproof option): 3" Crown Z Frame, 2" Bel Air Z Frame, 2" Bullnose Z Frame, 1 1/4 Beaded Z Frame, 1 1/2 Bullnose Z Frame.
Available frame types (waterproof option): 3" Crown Z Frame, 2" Bel Air Z Frame, 2" Bullnose Z Frame, 1 1/2 Deep Bullnose Z Frame, 1 1/2 Bullnose Z Frame.
Available specialty types: Half Round Sunburst, Eyebrow Sunburst, Elongated Eyebrow Sunburst, Left Quarter Round Sunburst, Right Quarter Round Sunburst, Sunburst on Top with Divider Strip (Frame Include in Rail Z Frame Only), Circle Sunburst, Hexagon Sunburst, Hexagon Sunburst with Straight Sides, Octagon Sunburst, Triangle Sunburst.
*Some surcharges apply



The left and right vertical stiles cannot be less than 8.125” (for 2.375" series hinges) for the panel to have hinges on the outer left and/or right stiles with L / R / LR / LTR configurations.
For stiles less than 8.125” (for 2.375" series hinges) tall, the configuration must be RTL with panels hinged to the T post.

For all specialty shape shutters, if the hinges are required, the smallest vertical stile straight height (net panel leg height) must be greater than 8 1/8” (for 2.375" series hinges) / 9 3/4” (for Direct Mount 3" hinge) to allow for hinge installation.

The limitations of these custom-made specialty shutters shown below are an approximate range. Actual limitations and availability vary depending on the width to height relationship, frame type, stile size, etc. This chart is used for general reference only.

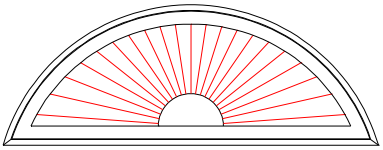
	Min Width	Max Width	Height
Eyebrow Sunburst	20”	80”	Height needs to be greater than 1/5 of the width
Elongated Eyebrow Sunburst			Curve Height needs to be greater than 1/5 of the width
Half Round Sunburst			Height needs to be greater than 1/3 of the width & within 10” and 40”

For specialty shape shutters, excluding some special cases, the frame sides are usually 3 sides (left, top & right) or 4 sides or all around; For Eyebrow Sunburst, Elongated Eyebrow Sunburst, Half Round Sunburst, Left Quarter Round Sunburst, Right Quarter Round Sunburst, Triangle Sunburst, Hexagon, Octagon, Circle & Oval, the frame sides should be 4 sides or all around.

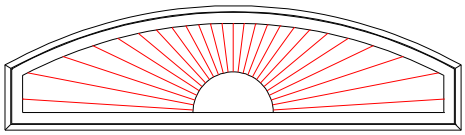
For specialty shape shutters with a vertical T-post option, the no. of T-post Qty option is open to 3; For orders with more than three vertical T-posts, please specify the locations of all T-posts in the special instructions.

*Some surcharges apply

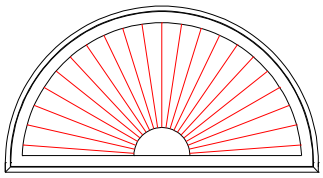
Eyebrow Sunburst



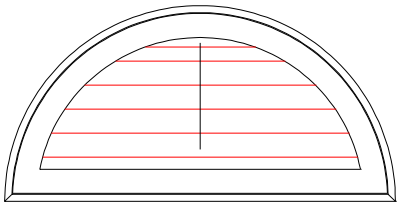
Elongated Eyebrow Sunburst



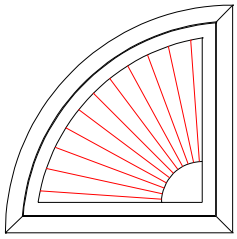
Half Round Sunburst



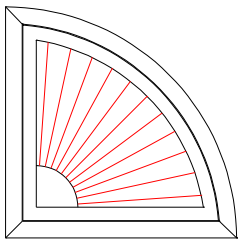
Half Round with Horizontal Louvers



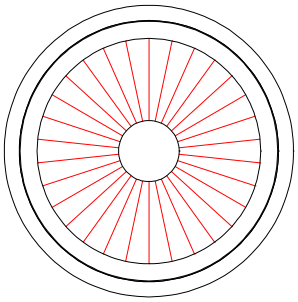
Left Quarter Round Sunburst



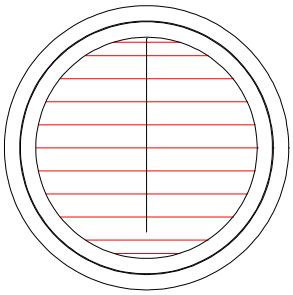
Right Quarter Round Sunburst



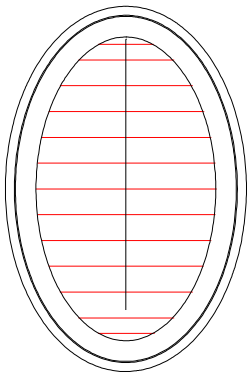
Circle Sunburst



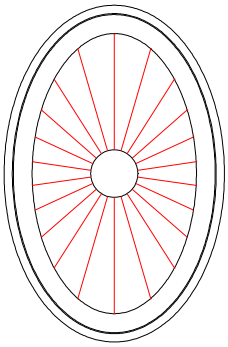
Circle with Horizontal Louvers



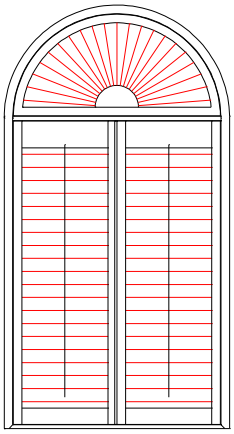
Oval with Horizontal Louvers



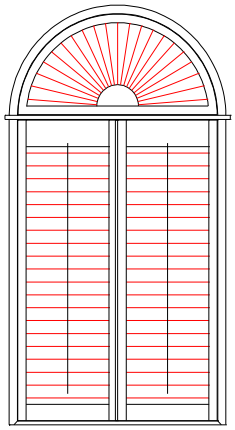
Oval Sunburst



Sunburst on Top with T Post

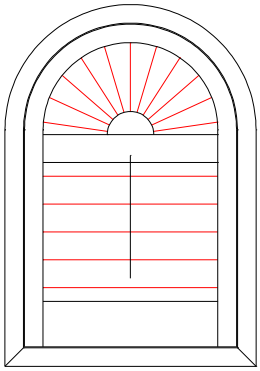


Sunburst on Top with Divider Strip

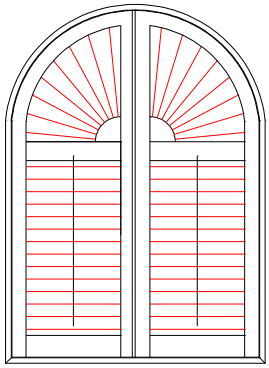


*Some surcharges apply

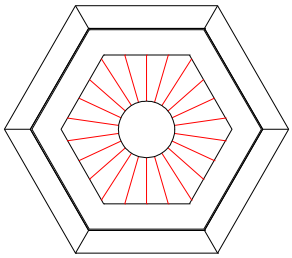
Sunburst on Top with Continuous Frame
Not available for Waterproof option



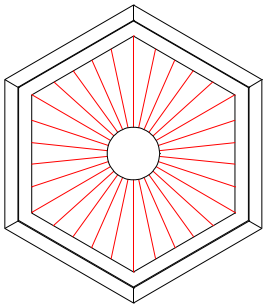
Quarter Sunburst Panelwith Continuous Frame
Not available for Waterproof option



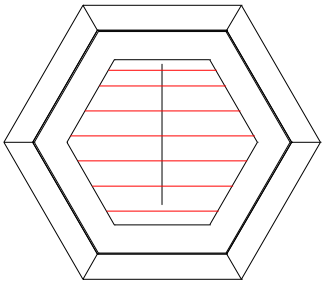
Hexagon Sunburst



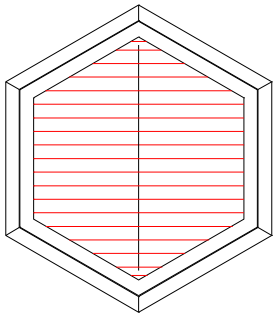
Hexagon Sunburst with Straight Sides



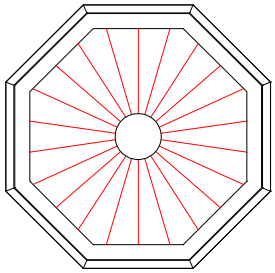
Hexagon with Horizontal Louvers



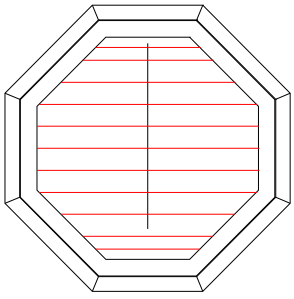
Hexagon Straight Sides
with Horizontal Louvers



Octagon Sunburst

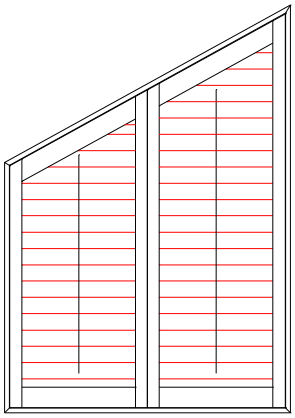


Octagon with Horizontal Louvers

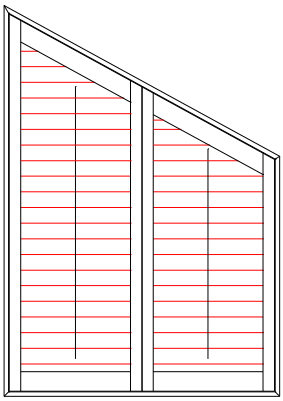


*Some surcharges apply

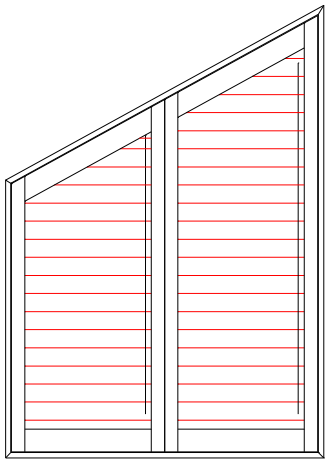
Left Angle Top with Center Tilt Rod /
Left Rake with Center Tilt Rod



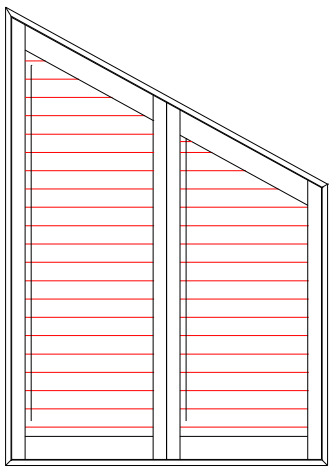
Right Angle Top with Center Tilt Rod /
Right Rake with Center Tilt Rod

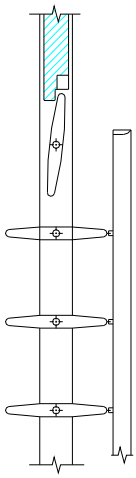


Left Angle Top with Offset Tilt Rod /
Left Rake with Offset Tilt Rod



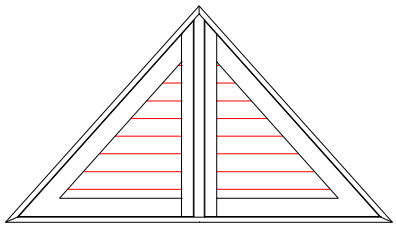
Right Angle Top with Offset Tilt Rod /
Right Rake with Offset Tilt Rod



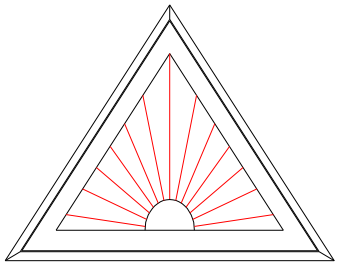


*Top louver of angle top might be fixed as shown above

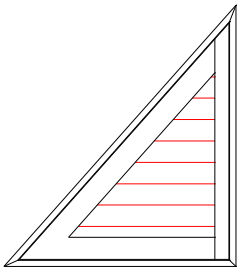
Triangle with Horizontal Louvers



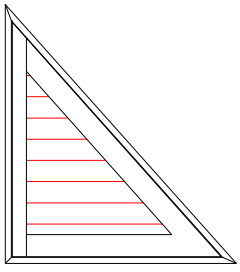
Triangle Sunburst



Left Triangle

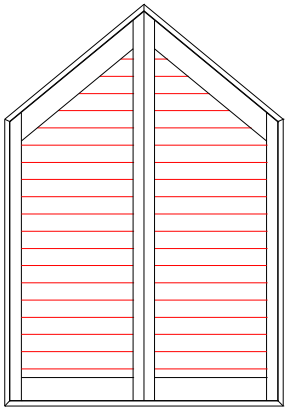


Right Triangle

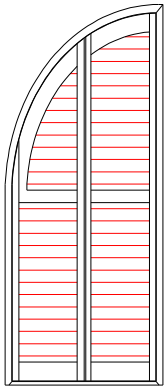


*Some surcharges apply

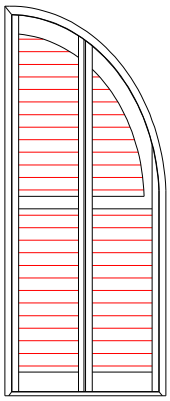
Peak



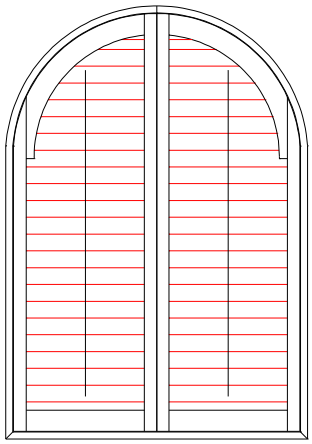
Left Quarter Arch



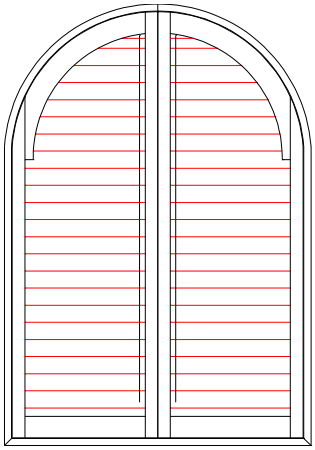
Right Quarter Arch



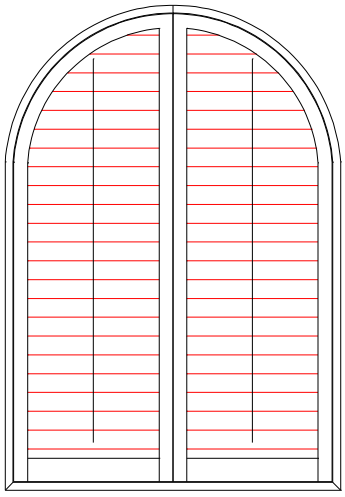
Louvered Arch Shutter with Center Tilt Rod
-Standard Louvered Arch



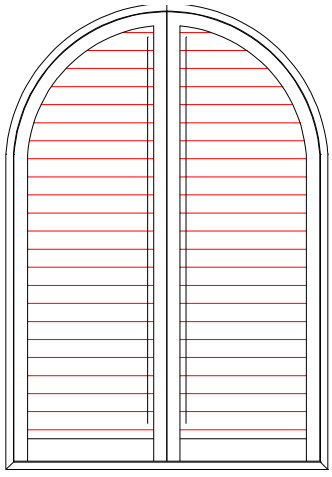
Louvered Arch Shutter with Offset Tilt Rod
-Standard Louvered Arch



Louvered Arch Shutter with Center Tilt Rod
-Continuous Arch
Not available for Waterproof option.

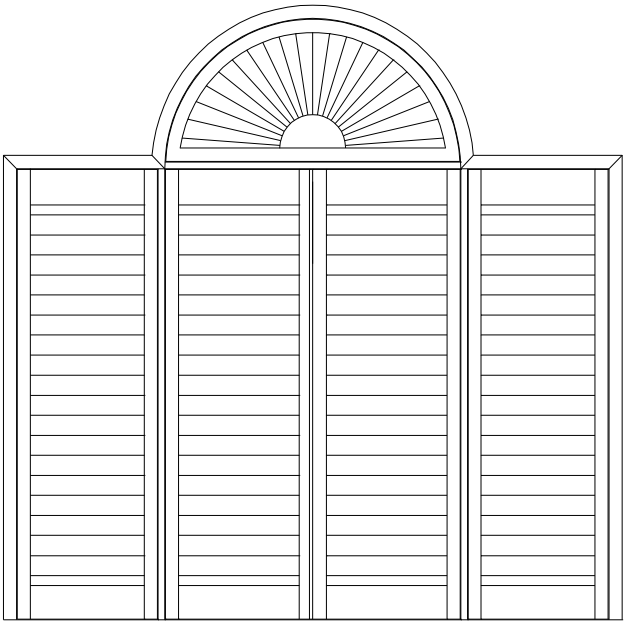


Louvered Arch Shutter with Offset Tilt Rod
-Continuous Arch
Not available for Waterproof option.

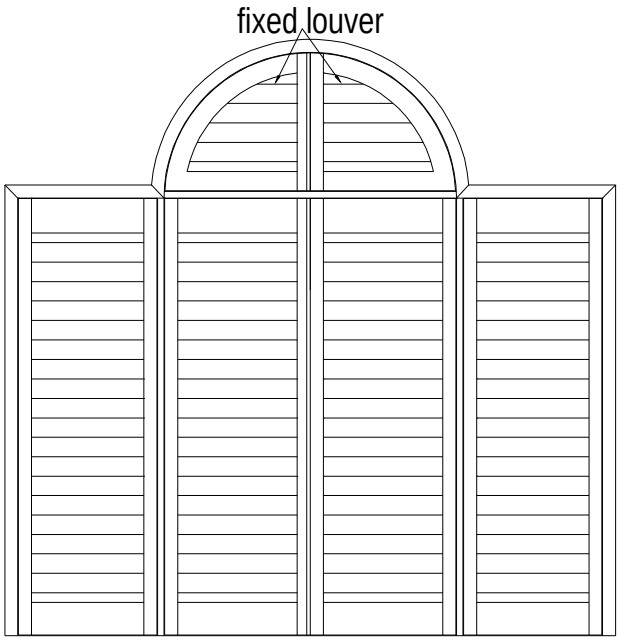


*Some surcharges apply

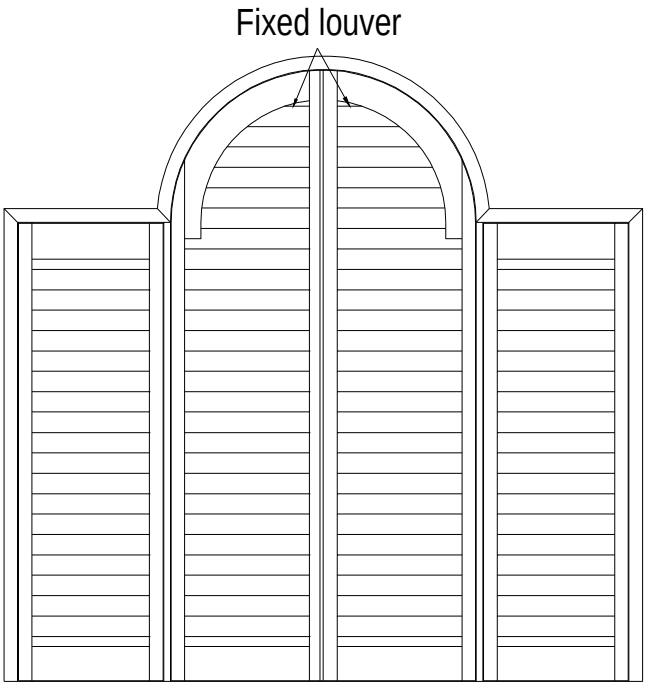
Arch Top Picture Window with Sunburst



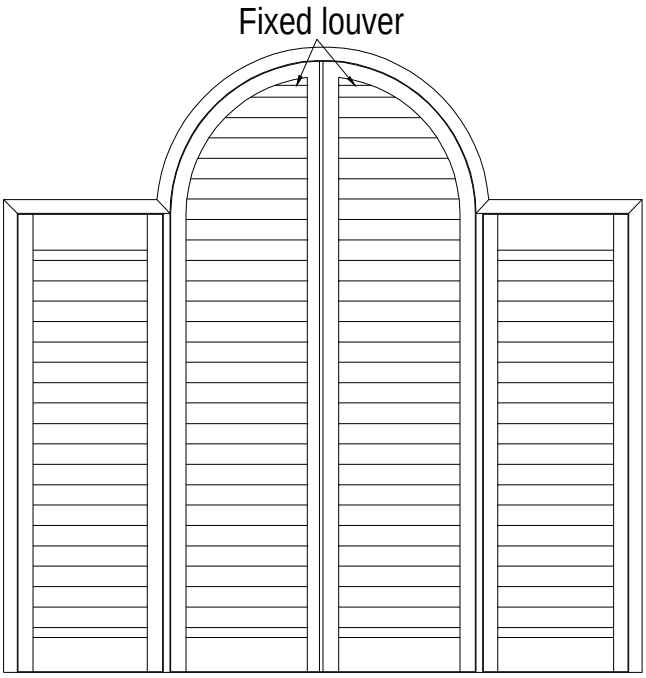
Standard unit with horizontal arch center



Arch Top Picture Window with horizontal louvers-Standard louvered arch

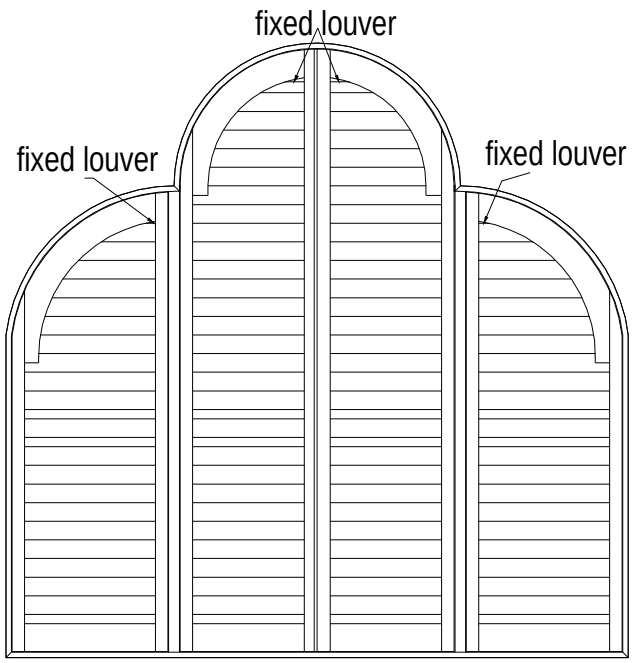


Arch Top Picture Window with horizontal louvers-Continuous arch
Not available for Waterproof option.

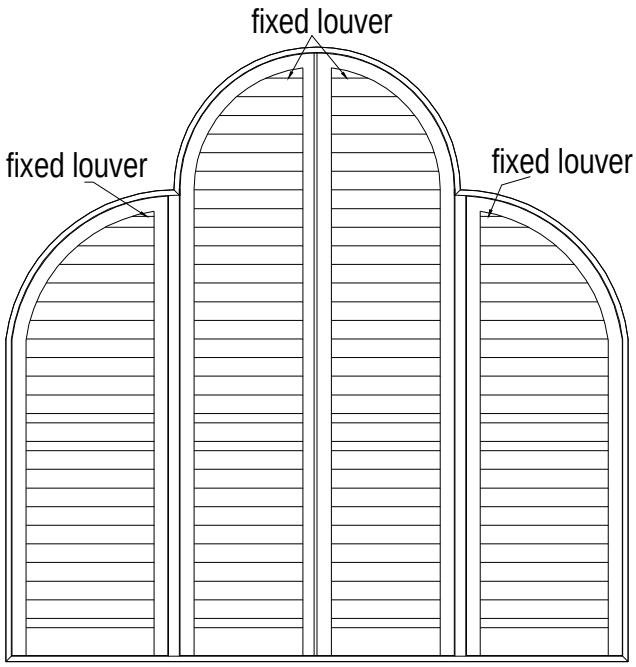


*Some surcharges apply

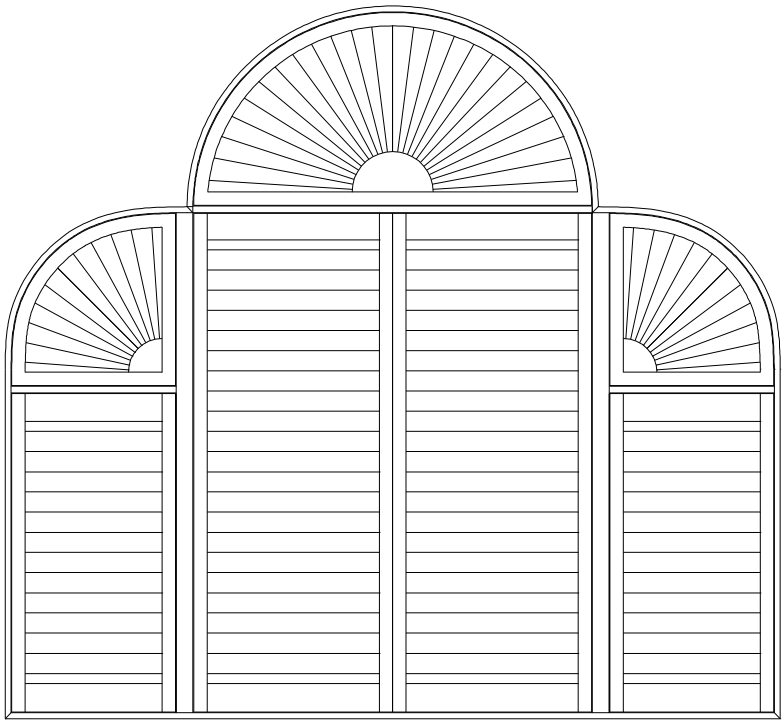
Horizontal louvers center arch with quarter round side panels -Standard louvered arch



Horizontal louvers center arch with quarter round side panels -Continuous arch
Not available for Waterproof option.

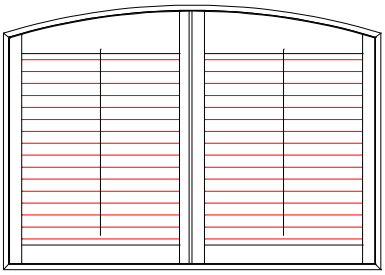


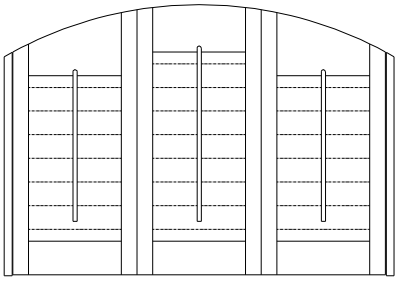
Sunburst louvers center arch with quarter round side panels



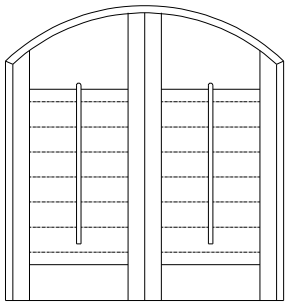
*Some surcharges apply

Solid Rail Arch (Not available for Waterproof option)

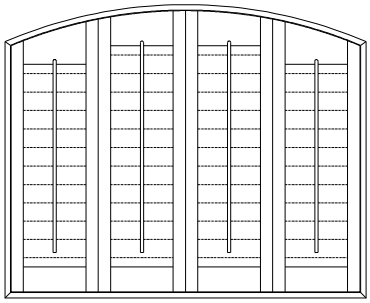




2-sided



3-sided

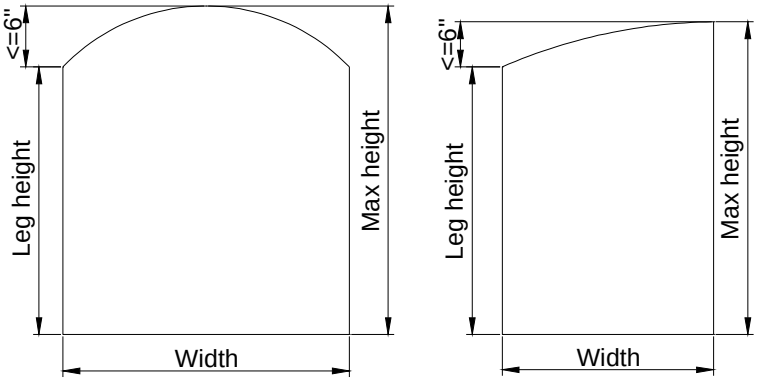


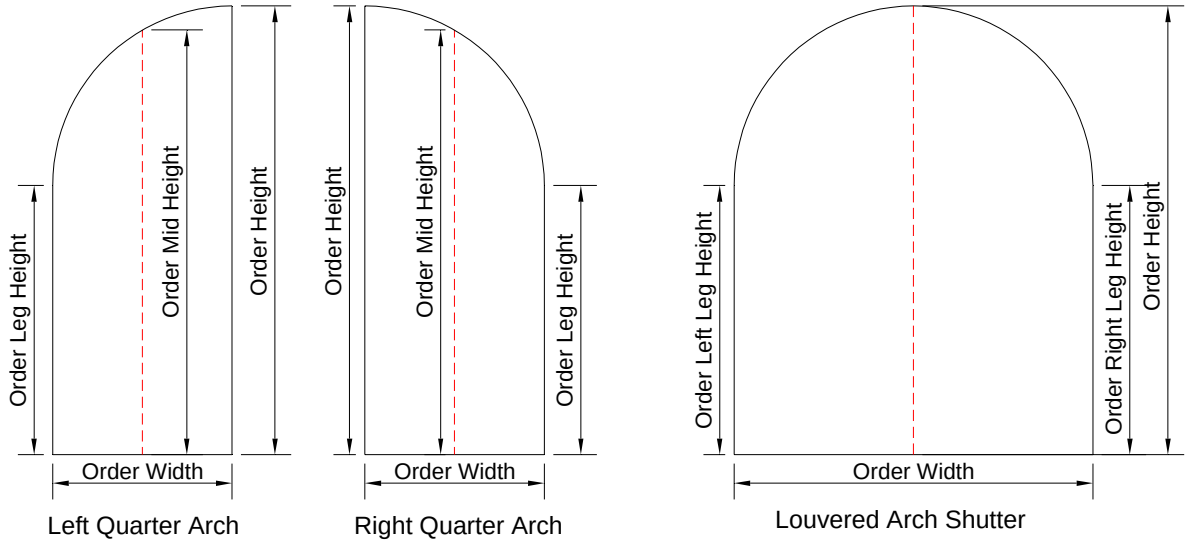
4-sided

1) Solid Rail Arch is available in

- L frames
- Z frames
- Deco frames
- Hang strips

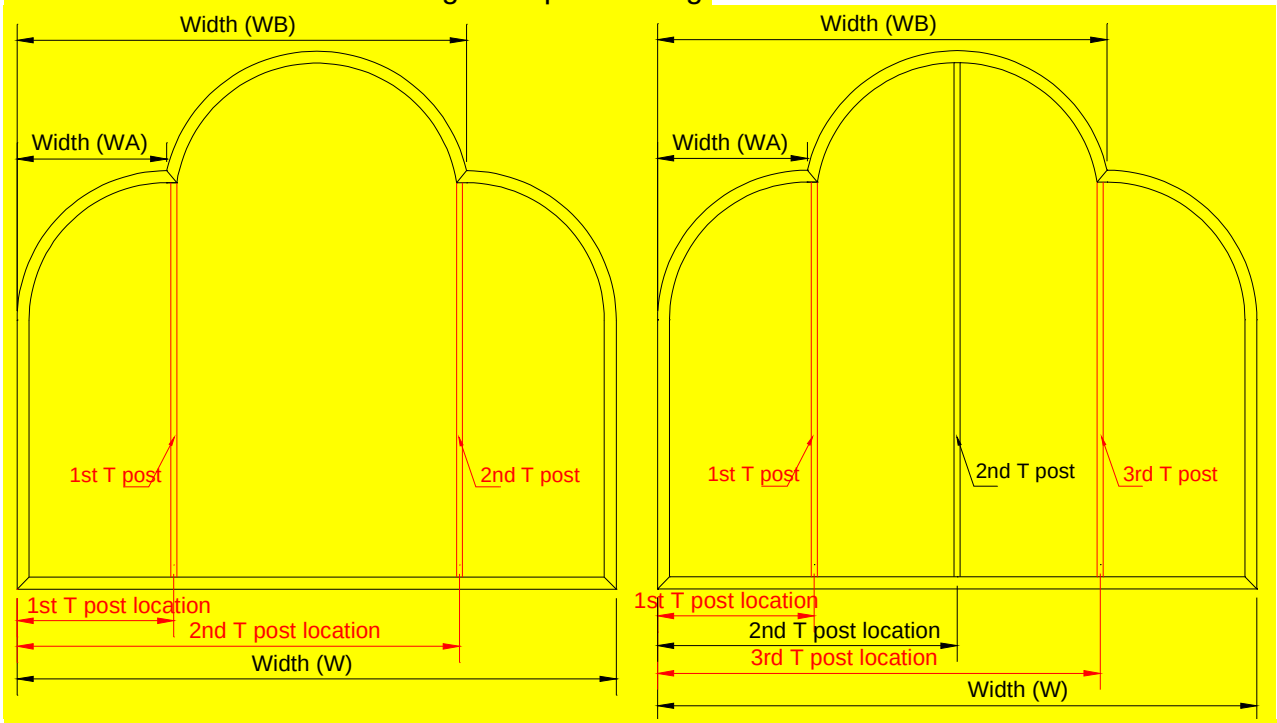
2) Max rail height of the Solid Rail Arch is 6” or less from the leg height as shown in the diagram below.





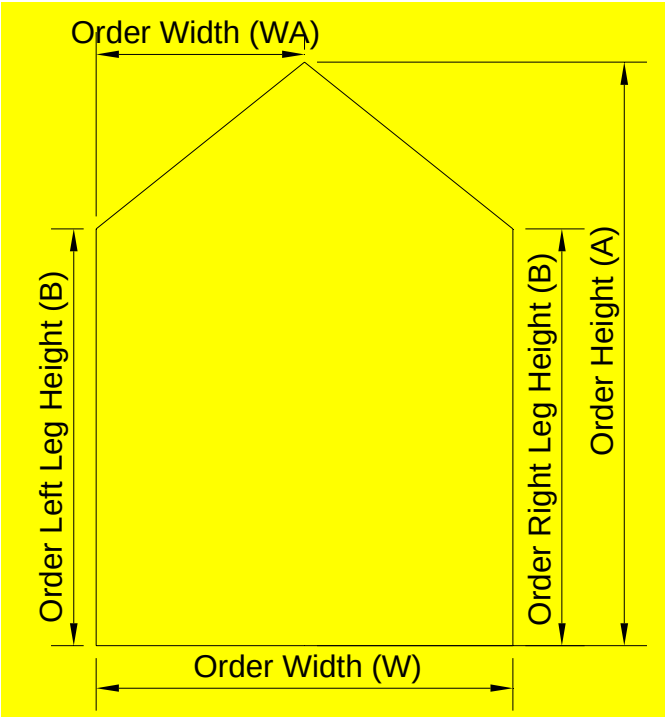
Left Quarter Arch & Right Quarter Arch: The Order Mid Height must be greater than (Order Height-Order Leg Height)/2 + Order Leg Height.
Louvered Arch Shutter: The Order Left Leg Height and the Order Right Leg Height must be no less than Order Height - (Order Width/2).

For Arch Top Picture Window with Horizontal Louvers, Horizontal Louvers Center Arch with Quarter Round Side Panels & Sunburst Louvers Center Arch with Quarter Round Side Panels,
The vertical T post locations will be determined by actual outline size, which may be different from the custom size in the T post location field or special instruction field, and there must be 2 vertical T posts at least as shown in the following example drawing:



- For orders with two vertical T-posts (as shown in the left drawing): It is not necessary to provide the 1st and 2nd T-post locations.
- For orders with three vertical T-posts (as shown in the right drawing): Only the 2nd T-post location needs to be provided; the 1st and 3rd locations are not required.
- For orders with more than three vertical T-posts: Please specify the locations of all T-posts in the special instructions.

*Some surcharges apply



When the vertex is in the middle, WA=1/2 W; Please specify the value of WA.

Template Requirement Guideline

You are required to submit a template if the specialty shutter is:

- An **inside mount.**
- An **imperfect arch**.
- Going to be mounted on **existing molding**.
- An **oval shape**.

An arch is perfect when same radius with same center point pass through all points on arch.
Any specialty arch shutter order without a template will be made as a perfect arch.
If your arch window is imperfect, send us a template.

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 **2" Classic 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

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+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 1/2" 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 Traditional 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
Track Shutter**							
Inside and Semi-Inside Mount		Width	x	Height	/144	x	$/sq ft
Outside Mount		(Width+3")	x	(Height+3")	/144	x	$/sq ft

1 side frame price:

2" Camber Deco Frame	1-sided	(Width+2")	x	(Height)	/ 144	x	$/sq ft
2" Classic Deco Frame (Not available for Waterproof option)	1-sided	(Width)	x	(Height+2")	/ 144	x	$/sq ft
3" Ridge Deco Frame (Not available for Waterproof option)	1-sided	(Width+3")	x	(Height)	/ 144	x	$/sq ft
	1-sided	(Width)	x	(Height+3")	/ 144	x	$/sq ft
2 1/2" Mission deco frame (Not available for Waterproof option)	1-sided	(Width+2 ½")	x	(Height)	/ 144	x	$/sq ft
	1-sided	(Width)	x	(Height+2 ½")	/ 144	x	$/sq ft
3" Crown Z Frame	1-sided	(Width+2 ¼")	x	(Height)	/ 144	x	$/sq ft
	1-sided	(Width)	x	(Height+2 ¼")	/ 144	x	$/sq ft
2" Bel Air Z Frame	1-sided	(Width+1 ¼")	x	(Height)	/ 144	x	$/sq ft
2" Bullnose Z Frame (Not available for Waterproof option)	1-sided	(Width)	x	(Height+1 ¼")	/ 144	x	$/sq ft
1 1/2" Bullnose Z Frame 1 ¼ " Beaded Z Frame (Not available for Waterproof option)	1-sided	(Width+1")	x	(Height)	/ 144	x	$/sq ft
Bullnose Tilt Out Z Frame (Not available for Waterproof option) 1 1/2" Deep Bullnose Z Frame (For Waterproof option only)	1-sided	(Width)	x	(Height+1")	/ 144	x	$/sq ft
Vintage Hang Strip (Not available for Waterproof option)	Outside 1-sided	(Width+1 ½")	x	(Height)	/ 144	x	$/sq ft
Traditional Hang Strip (For Waterproof option only)	Outside 1-sided	(Width)	x	(Height+1 ½")	/ 144	x	$/sq ft
Vintage L Frame Beaded L Frame Beaded L with 1/4" Light Block (Not available for Waterproof option) Beaded L with 1/2" Buildout Beaded L with 1" Buildout (Not available for Waterproof option) Vintage L with 1/4" Light Block (Not available for Waterproof option) Vintage L with 1/2" Buildout Vintage L with 1" Buildout (Not available for Waterproof option) Deep Plain L Frame (For Waterproof option only)	Outside 1-sided Outside 1-sided	(Width+1 ½") (Width)	x x	(Height) (Height+1 ½")	/ 144 / 144	x x	$/sq ft $/sq ft