

2015 Log

Date	Topic	Page	Note		
Jan.6th	Special Options	WLP k-2	Add Batten Size for Type E/F		
Jan. 6th	2014 Track Shutter-90 Bifold	WLP j1-10/11	Hang Strip for Inside Mount Only		
Jan.15th	Tilt Rod	WLP g-1	Louver Size	Maximum Possible Louvers	Height Range
			2½"	24	54 3/4" – 57 1/4"
			3½"	16	54 3/4" – 58"
			4½"	12	54 3/4" – 60"
Jan. 15 th	Track Shutter-Bypass	WLP j2-1~16	Old Track Shutter-Bypass discontinue(delete page1~16)		
Jan.15 th	Stile Options	WLP c-1	Delete Center Stile		
Jan.23 rd	Closed bypass with 3 tracks	WLP j2-5	Header size changed to 7 7/8"		
Jan.26 th	Bifold&Bypass	WLP j1-1,6,j2-1	Remove the wording "2014" and just use Bi-fold 180 TM ? For 90 degree, it will be Bi-fold 90. The bypass section also remove "2014"		
Jan.29 th	Bifold	WLP j1-3	Change extension for header supply loose to pre-attached		

Table of Contents

Page

a.	Features & Benefits	WLP a-1
b.	Colors & Louvers	WLP b-1
c.	Stiles	WLP c-1
d.	Panel Configurations	WLP d-1
e.	Frame Styles	WLP e-1
f.	General Product Specifications	WLP f-1
g.	Tilt Rods	WLP g-1
h.	Divider Rails	WLP h-1
i.	Hardware	WLP i-1
j.	Track Shutters	WLP j-1
k.	Special Options	WLP k-1
l.	Specialty Shapes	WLP l-1
m.	Pricing	WLP m-1
n.	Appendix	WLP n-1

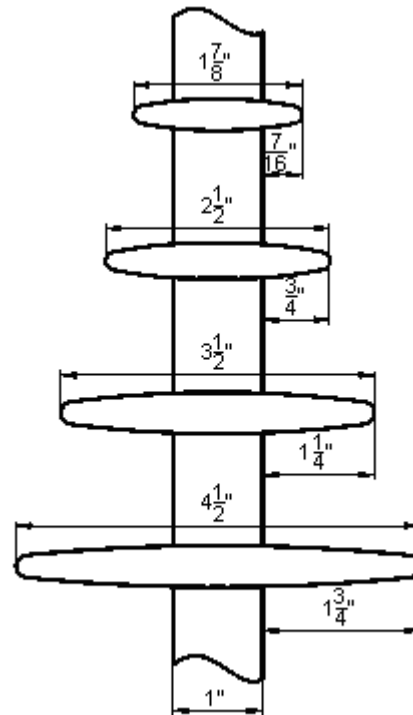
Features and Benefits

- 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.
- Multiple stile options are available in various sizes to accommodate different window configurations. **Astragal** or **Rabbit stiles** provide a natural light block between panels.
- A wide range of **frames with inserts**, which keep installation screws out of sight for a clean and decorative look, match any style and preference.
- Personalize shutters with **special options**. Choose from fixed louvers, hidden or offset tilt rods, café styles, bay and corner window shutters, track systems and many more.
- Quick and easy on-site assembly and installation with the **pre-installed magnets and hinges, pre-mitered frames** and **slotted keyholes**.
- Available in a wide array of solid colors that can satisfy your design needs.
- Specialty shapes, track systems and French door cutouts are available.

Colors & Louvers

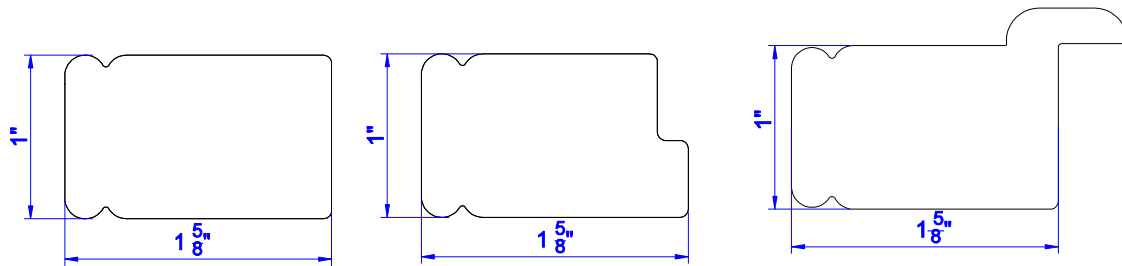
Solid Colors	
001	Pure White
003	Silk White
004	Bright White
006	Pearl
007	Ivory Lace
008	Marshmallow
009	Creamy
011	Cameo
012	Crisp Linen
013	Bisque
016	Butter
019	String
030	Moondust
032	Sea Mist
046	Ice
048	Chai
049	Stoney Grey
051	Brown Grey
053	Clay
063	Decorator's White
836	Classic Black 10% surcharge

Louvers	
Elliptical	$1 \frac{7}{8}"$ $2 \frac{1}{2}"$ $3 \frac{1}{2}"$ $4 \frac{1}{2}"$



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

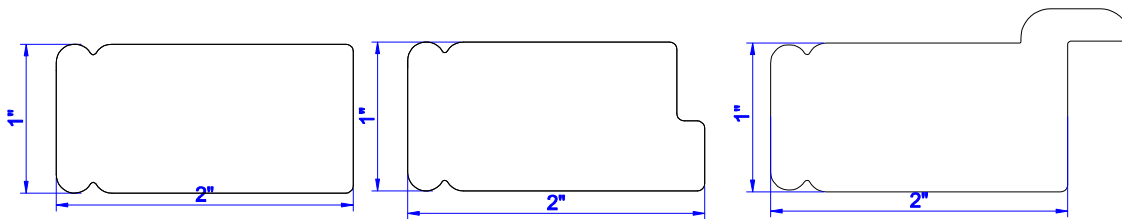
Stiles Options



1 5/8" Butt Stile

1 5/8" Rabbet Stile

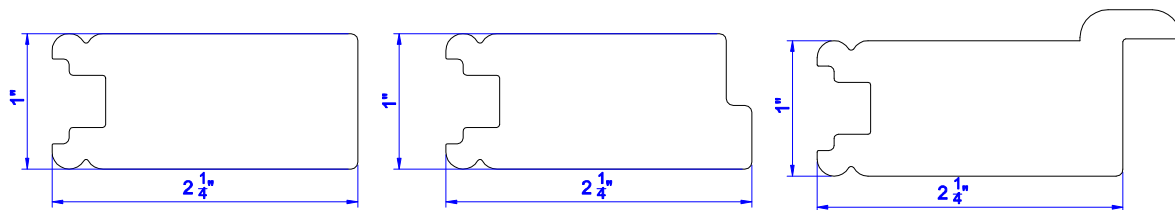
1 5/8" Astragal Stile



2" Butt Stile

2" Rabbet Stile

2" Astragal Stile



2 1/4" Butt Stile

2 1/4" Rabbet Stile

2 1/4" Astragal Stile

Stiles (continued)

Stile between panel closure

Single panel

- I) Panel width < 9"
- Rabbeted stile (Deco frame, L frame, Z frame and Hang strip beside panel)
 - 1 ⁵/₈"
 - 2" (default)
 - Butt stile only (Hang strip behind panel)
 - 1 ⁵/₈" (Optional for panel width ≤ 12")
 - 2" (default)
- II) Panel width ≥ 9"
- Butt stile only
- 1 ⁵/₈" (Optional for panel width ≤ 12")
 - 2" (default)

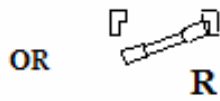
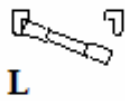


2 panels or more

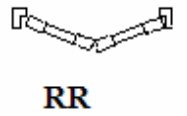
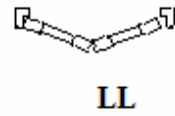
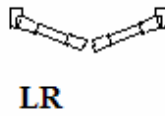
- Rabbet stile
 - 1 ⁵/₈" (Optional for panel width ≤ 12")
 - 2" (default)
- Astragal stile
 - 1 ⁵/₈"
 - 2"

Panel Configurations

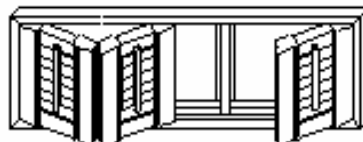
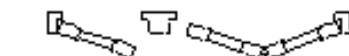
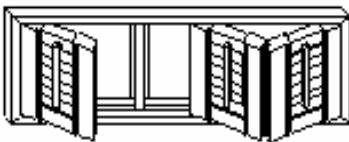
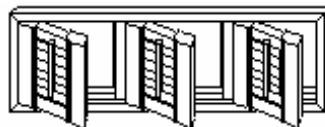
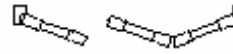
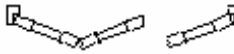
Single Panel



Two Panels

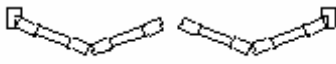


Three Panels

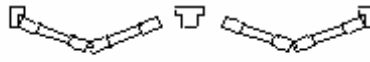
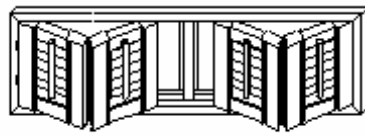


Panel Configurations (continued)

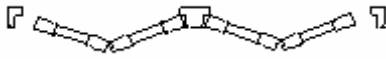
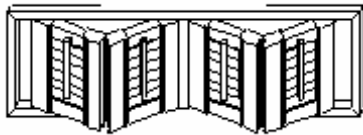
Four Panels



LLRR



LLTRR



RRLL

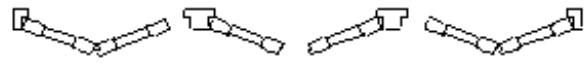


LTLRTR

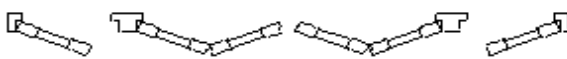
Six Panels



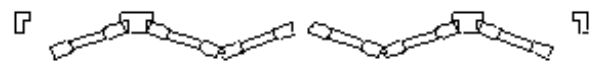
LRTLRTL



LLTLRTRR



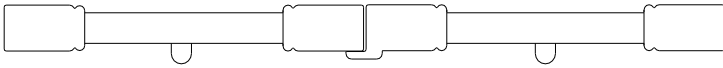
LTLRRTR



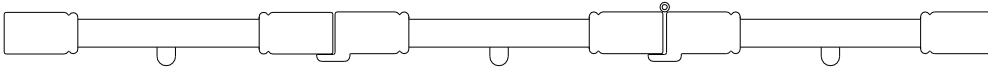
RTLLRRTL

Panel Configurations - Astragal Stile

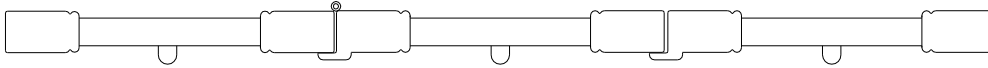
- 2 Panels - LR/LL/RR



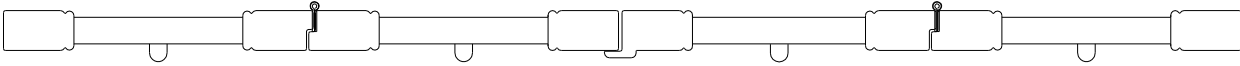
- 3 Panels - LRR



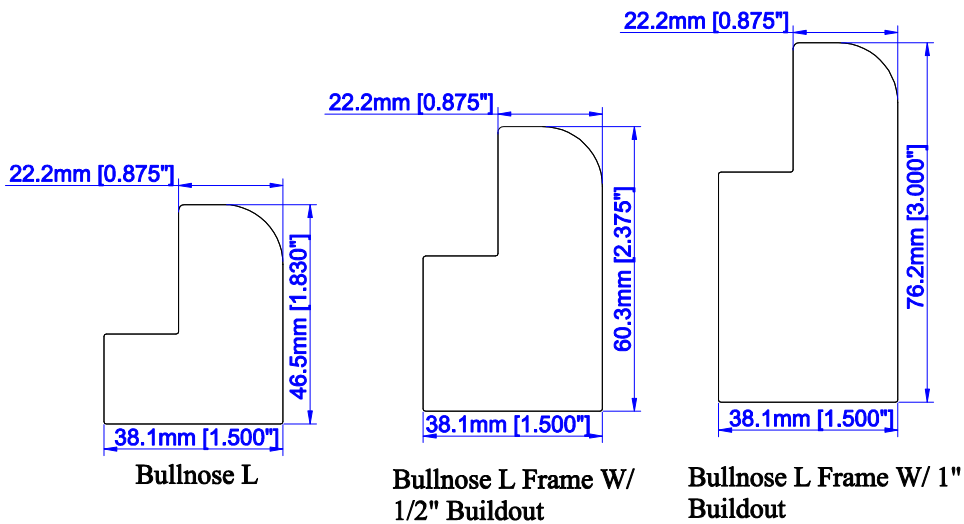
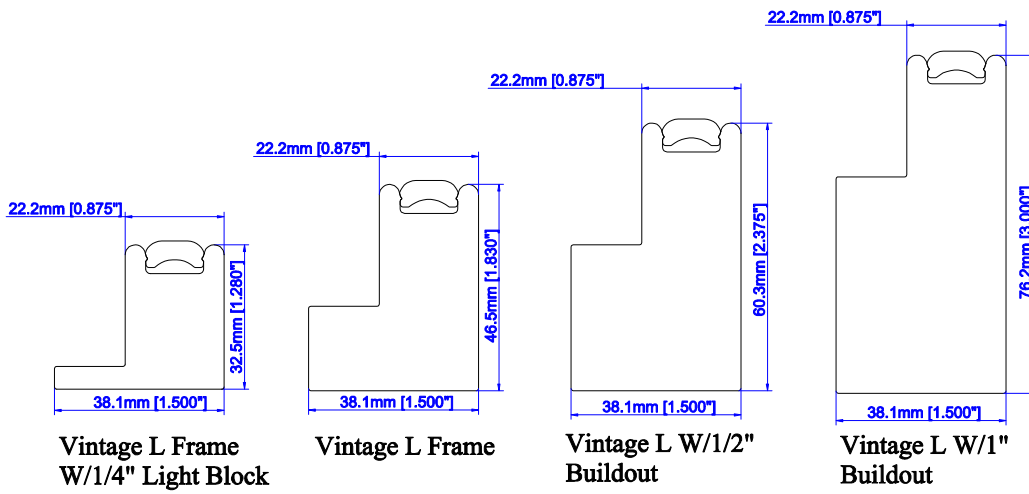
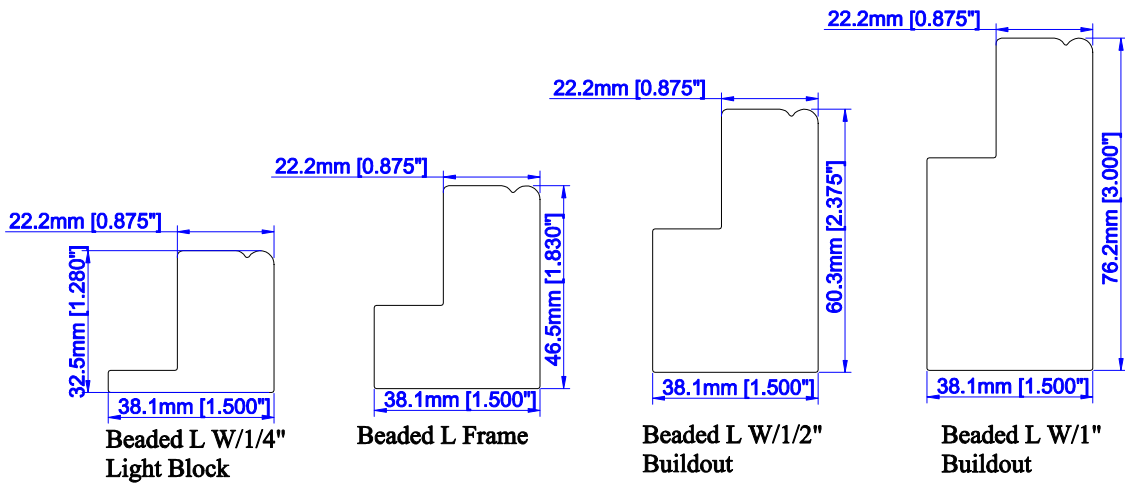
- 3 Panels - LLR



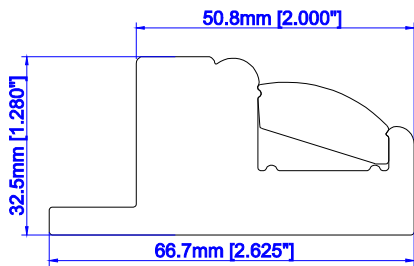
- 4 Panels - LLRR



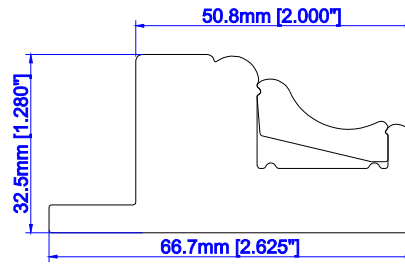
Woodlore [PLUS]



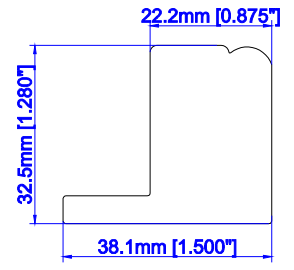
Woodlore-[PLUS]-



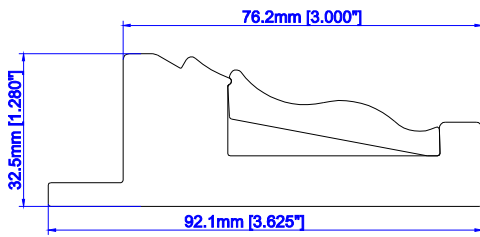
2" Camber Deco Frame



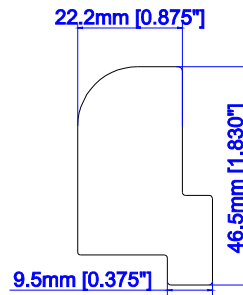
2" Classic Deco Frame



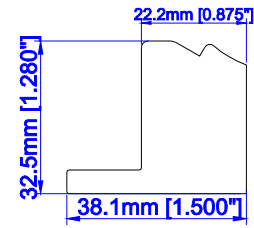
2" Deco Sill Plate



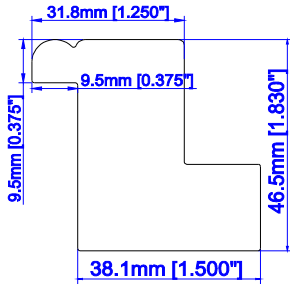
3" Ridge Deco Frame



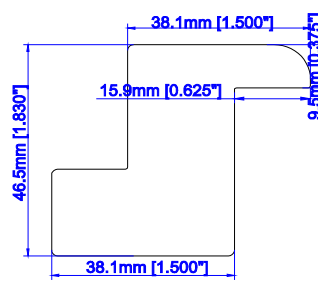
Tilt Out Z Frame



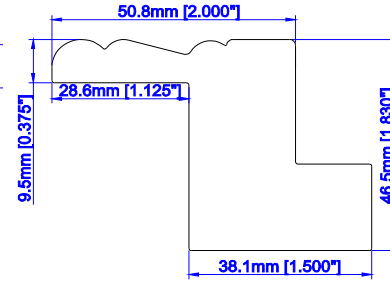
Ridge Deco Sill Plate



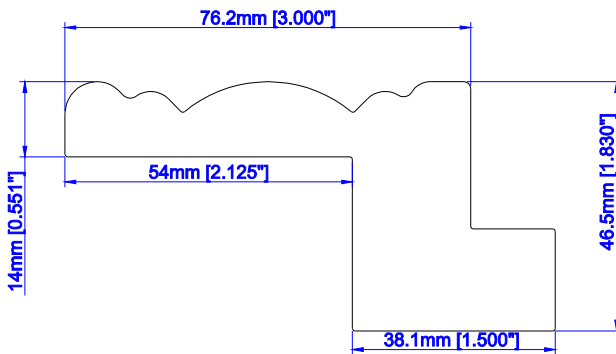
1 1/4" Beaded Z Frame



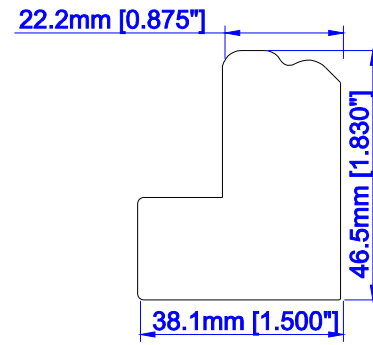
1 1/2" Bullnose Z Frame



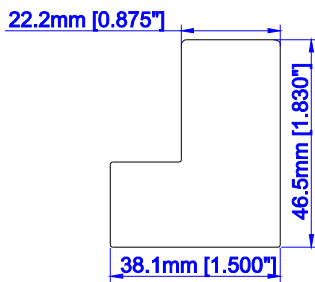
2" Bel Air Z Frame



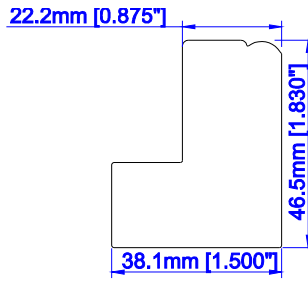
3" Crown Z Frame



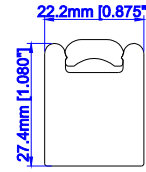
3" Crown Z Sill Plate



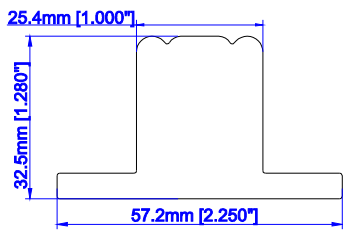
1 1/2" Bullnose Z
1 1/4" Beaded Z
Sill Plate



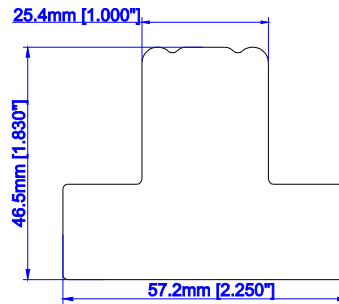
2" Bel Air Z Sill Plate



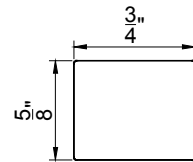
Vintage Hang Strip



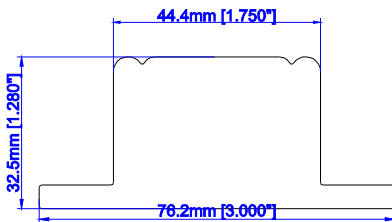
1" T Post W/ 1/4" Light Block
(Deco)



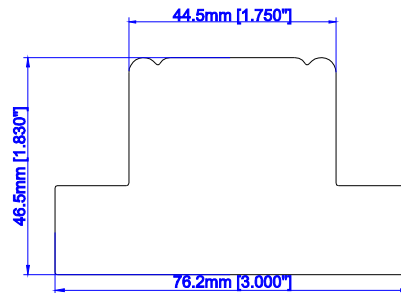
1" T Post W/ 3/4" Light Block
(L/Z/HS)



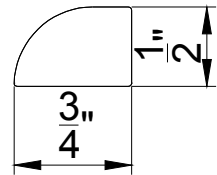
Light Block



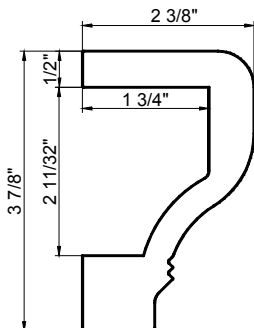
1 3/4" T Post W/ 1/4" Light
Block (Deco)



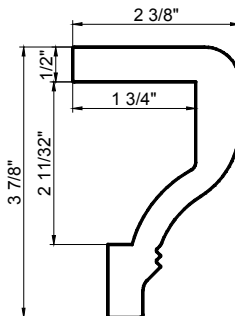
1 3/4" T Post W/ 3/4" Light
Block (L/Z/HS)



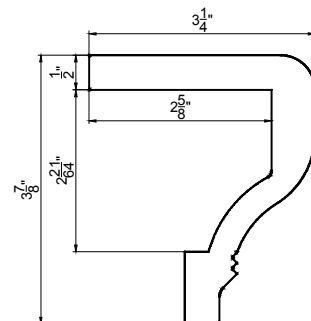
Scribe Trim



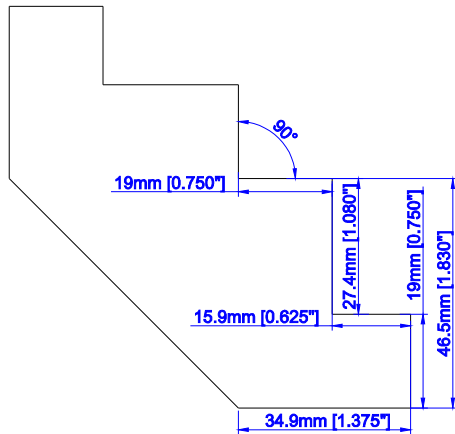
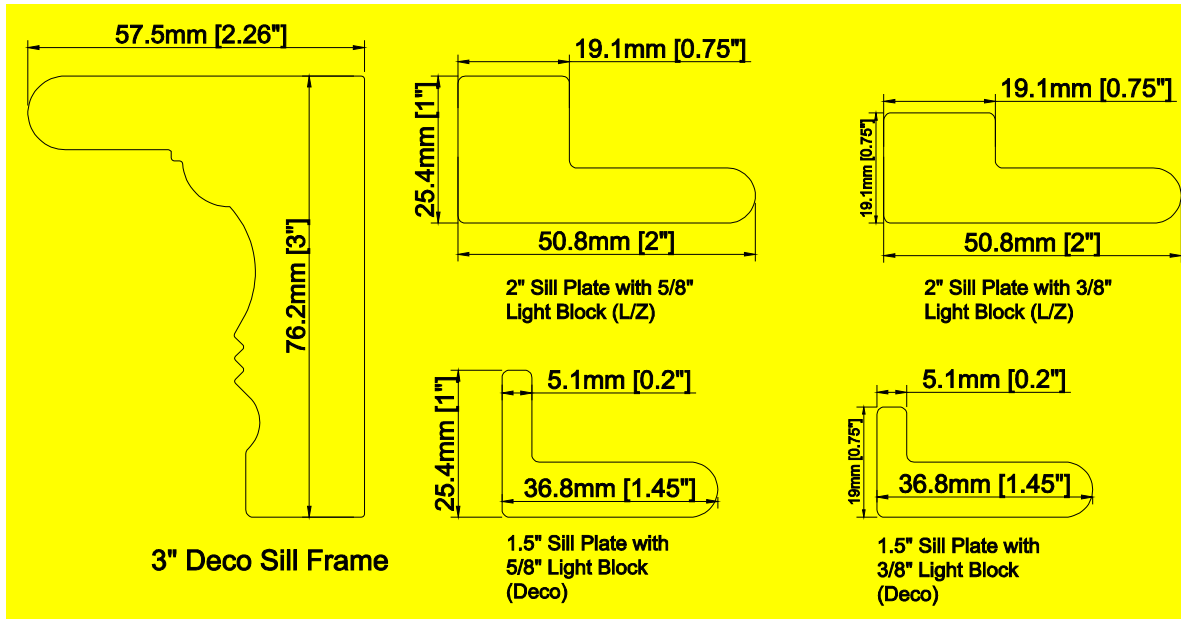
Curved Designer Sill Cap (L)



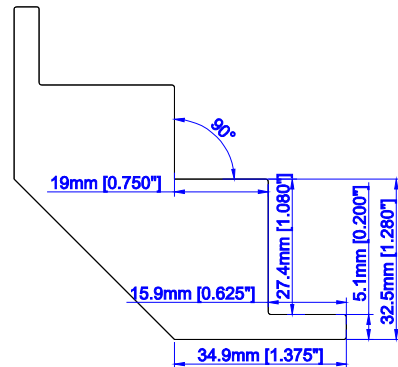
Curved Designer Sill Cap (D/HS)



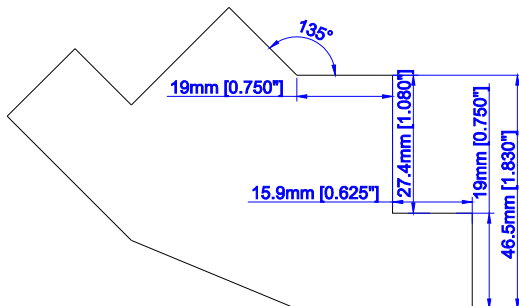
Curved Designer Sill Cap (Z)



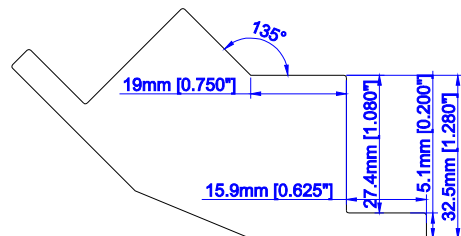
Corner Post W/ 3/4" Light Block (L/Z/HS)



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

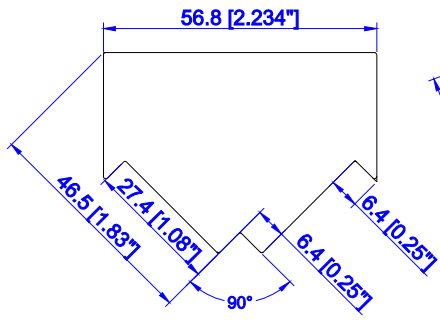


Bay Post W/ 3/4" Light Block (L/Z/HS)

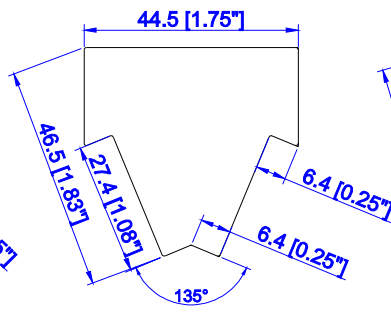


Bay Post W/ 1/4" Light Block (Deco)

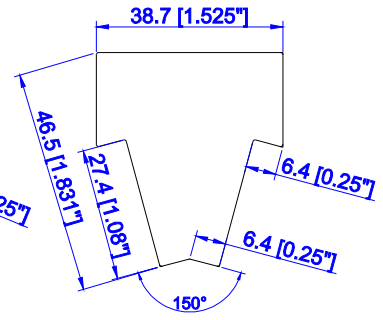
Woodlore [PLUS]



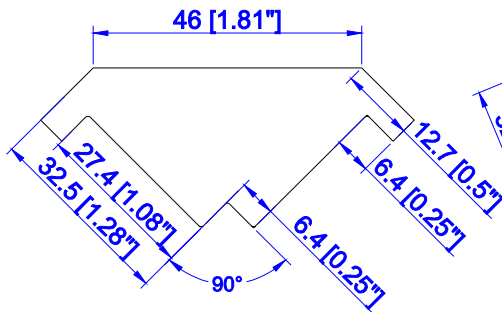
Slim Fit Corner Post for 90 Degree (L/Z/HS)



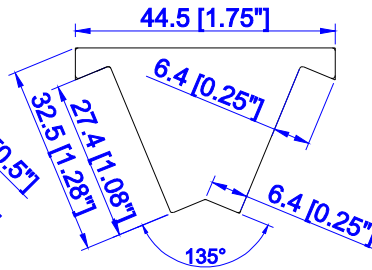
Slim Fit Bay Post for 135 Degree (L/Z/HS)



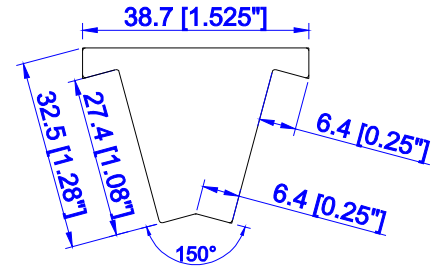
Slim Fit Bay Post for 150 Degree (L/Z/HS)



Slim Fit Corner Post for 90 Degree (D)



Slim Fit Bay Post for 135 Degree (D)

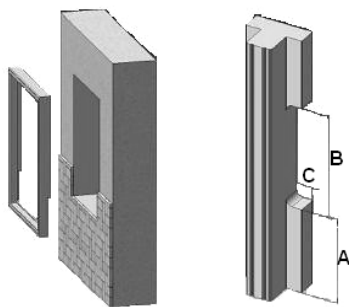


Slim Fit Bay Post for 150 Degree (D)

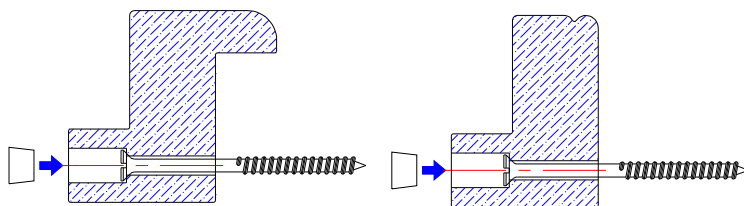
Notch out*:

- L Frame
- T Post

Specify dimensions in special instruction box.



Pre-drill L or Z Frames:



General Product Specifications

<u>Description</u>	<u>Minimum</u>	<u>Maximum</u>
Single Panel Width (Regular)	6"	36" for 2½", 3½", 4½" louver; 24" for 1 7/8" louver
Single Panel Width (Bifold)	6"	24"
Single Panel Width (Bifold Track)	6"	24"
Single Panel Width (for Bypass Panel With Center Stile)	6"	50" for 2 1/2", 3 1/2", 4 1/2" louver. 48" for 1 7/8" louver.
Single Panel Height	10"	133"
Shutter Width (Without T Post)	N/A	96" + frame
Shutter Width (With T Post)	N/A	Unlimited (frame pieces exceeding 142" will be spliced)
Shutter Height	N/A	133" + frame

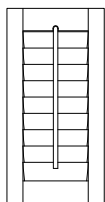
Shutters without bottom supports

Woodlore Plus Shutters without bottom supports may sag and deform. Therefore, we strongly discourage the use of shutters for this application. We will continue to manufacture these shutters; however, they will not be covered under our warranty and will be subject to the guidelines listed below:

All Woodlore Plus panel configurations:

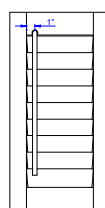
- You must inform Norman Window Fashions of situations where shutters will not have bottom support when placing the initial order.
- Informing Norman when placing such orders ensures that the factory will add extra hinges to support the panel. This will reduce the probability of the panels sagging and increase shutter integrity. You must release Norman Shutters from liability in these situations.
- If you fail to notify Norman that the shutter will be used without bottom support, this will constitute a misapplication of the shutter. Consequently, you will be responsible for the cost of any RGA that is submitted.
- If you want a bifold shutter, a track must be ordered to support the panels. Without a track, Norman will not manufacture the order even with liability waived.

Tilt Rods



**Standard Tilt Rod
Default Location**

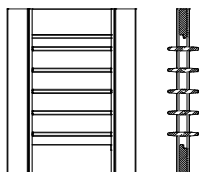
In the middle of the panel on front side (default).



**Offset Tilt Rod*
Default Location**

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

InvisibleTilt[™] *



Louver tilting system embedded within panel stile. It is not available for 1⁷/₈" louver. The tilting system is split when the number of louvers exceeds the limits as listed below:

Louver Size	Maximum Possible Louvers	Height Range
2½"	24	54 3/4" – 57 1/4"
3½"	16	54 3/4" – 58"
4½"	12	54 3/4" – 60"

- For even numbers of louvers, the number of louvers operated by the top and the bottom tilting system will be the same.
- For odd numbers of louvers, the number of louvers operated by the bottom tilting system will be one more than the number of louvers operated by the top tilting system.

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

Divider Rails

- A divider rail is an extra rail in the middle of the panel.
- Creates two sections in the panel so louvers can be operated independently.
- Strengthens the panel and enhances structural integrity.
- Required for panel heights over 78"

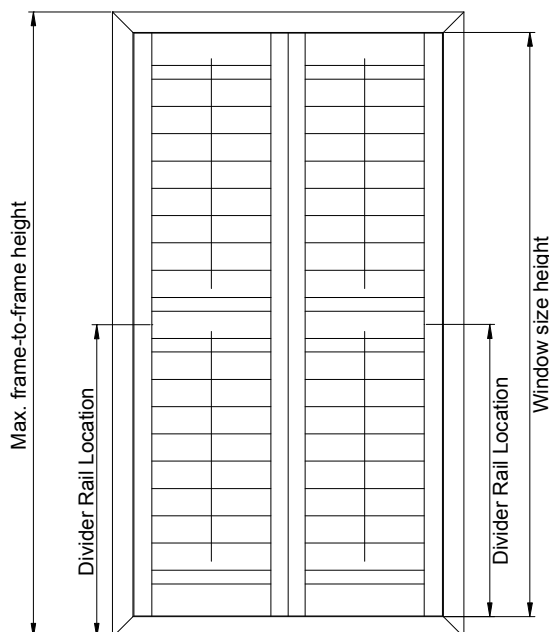
Specifications

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

Measurements:

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

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



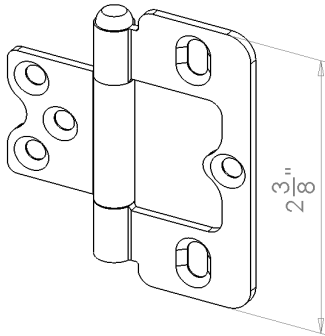
Divider rail allowable deviations

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

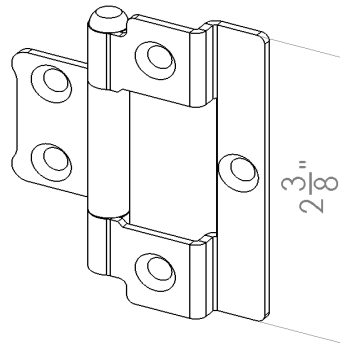
Hardware

Hinges

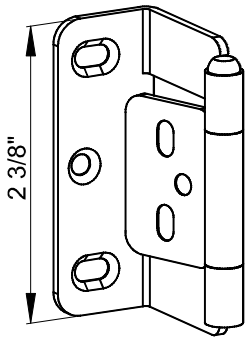
Self-Mortise Hinge



Bi-fold Hinge



L Hinge

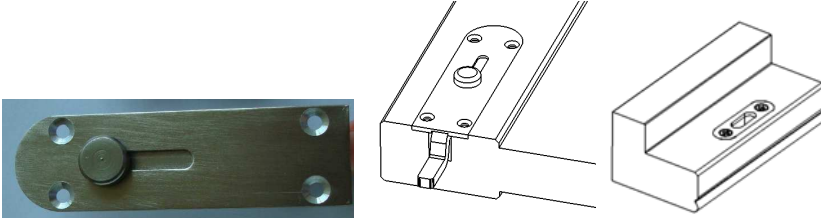


Hinges are available in :
Silk White, Bisque, Pearl, Bright Brass, Antique Brass, Black, Nickel plated and Stainless Steel*

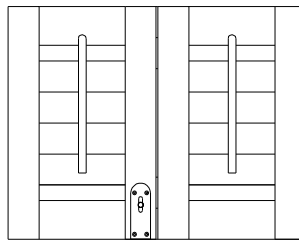
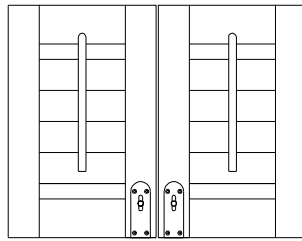
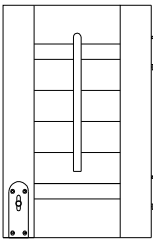
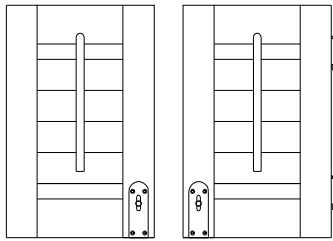
Panel Lock: (not available for 1.625" Stile)

Available Material: All

Color: Brush Nickel-Plated



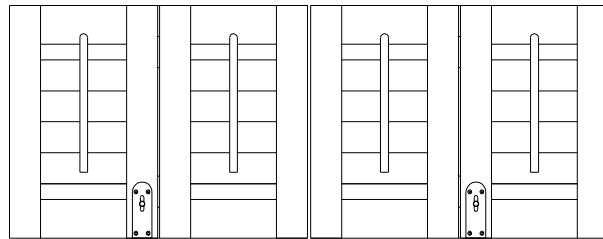
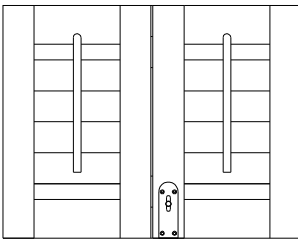
Position: (Only available on Bottom for Track Shutters with Bottom Track; For Regular, available on Top/Bottom/both Top and Bottom)



Panel Config: L Panel Config: R

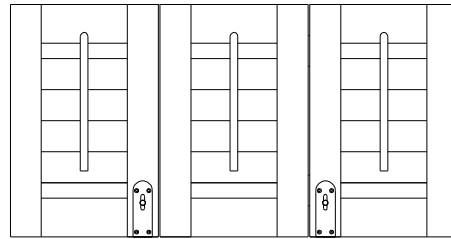
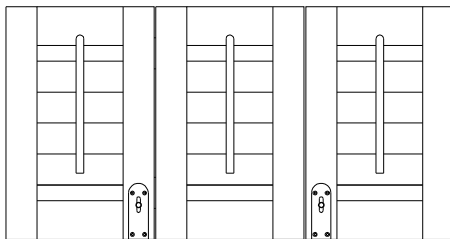
Panel Config: LR

Panel Config: LL



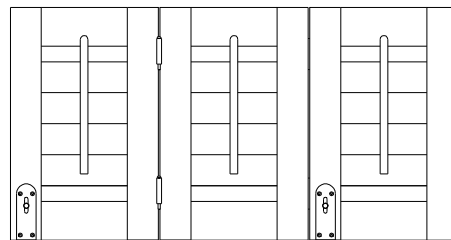
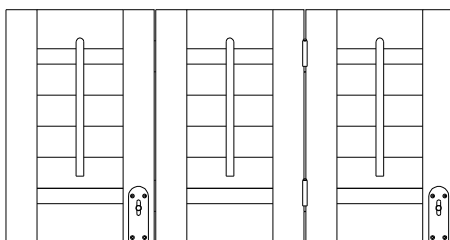
Panel Config: RR

Panel Config: LLRR



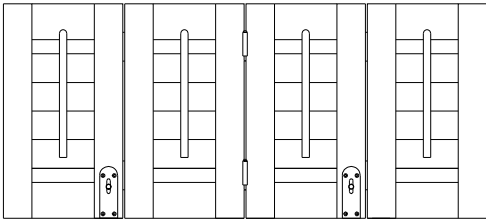
Panel Config: LLR

Panel Config: LRR

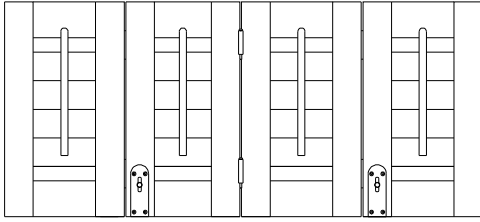


Panel Config: LLL

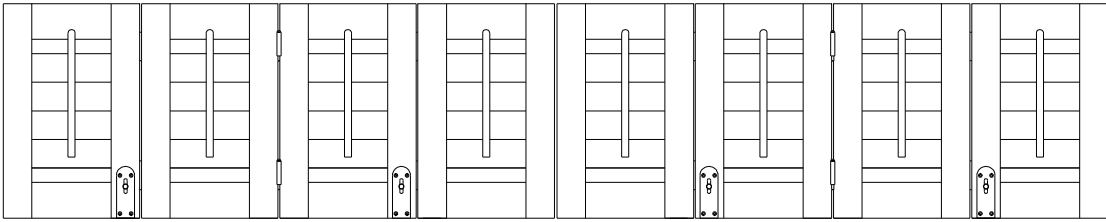
Panel Config: RRR



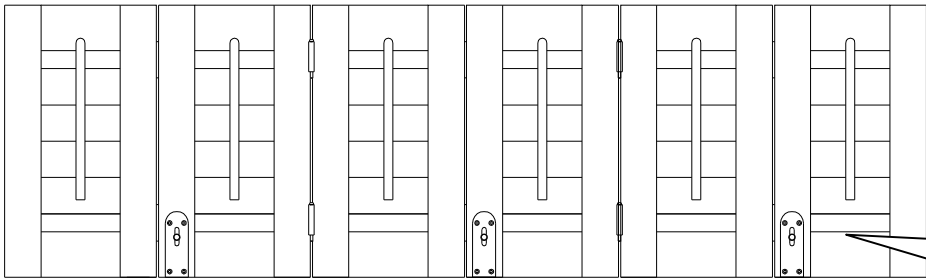
Panel Config: LLLL



Panel Config: RRRR



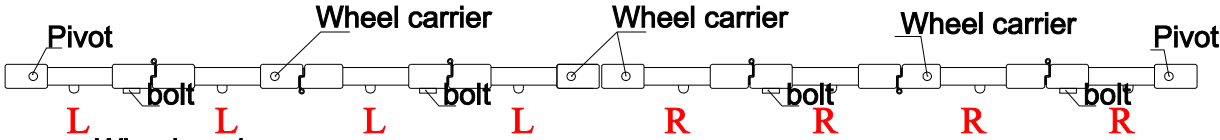
Panel Config: LLLRRRR



Panel Config: FFFFFF(R)

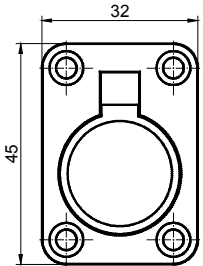
Default:
Floating panels
stacked to Right

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



Ring pull: for easy opening and closing

(Not available for 1.625" Stile)

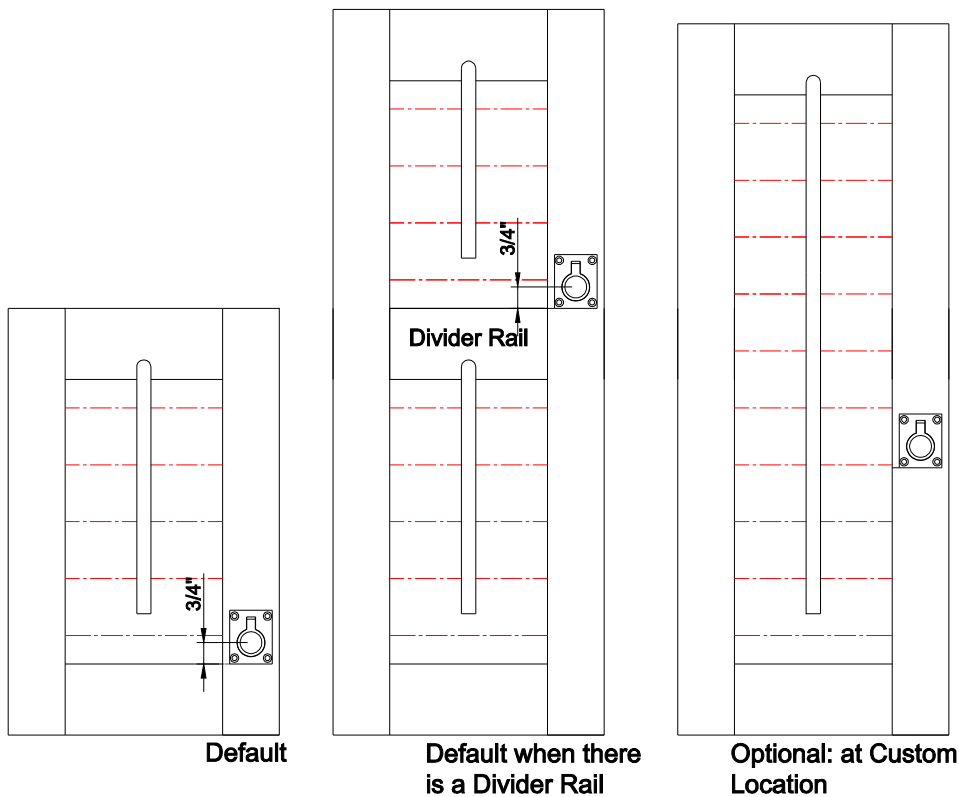


Please note the ring pull finish will match with the hinge finish.

Please see the matching chart below:

Hinge	White	Bisque	Pearl	Black	Nickel	Brushed Nickel	Oil-Rubbed	Antique Brass	Bright Brass	Stainless Steel
Ring Pull	White	Bisque	Pearl	Black	Brushed Nickel	Brushed Nickel	Black	Antique Brass	Bright Brass	Brushed Nickel

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

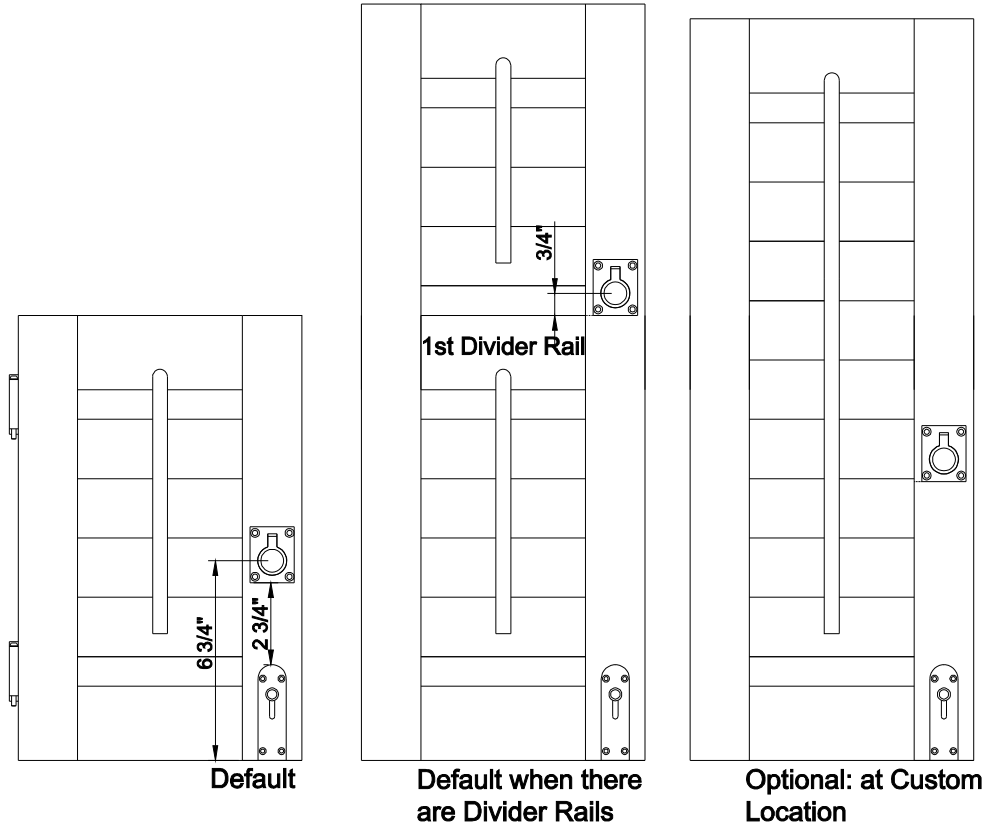


Position:

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

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

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



Position:

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

Measurements:

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

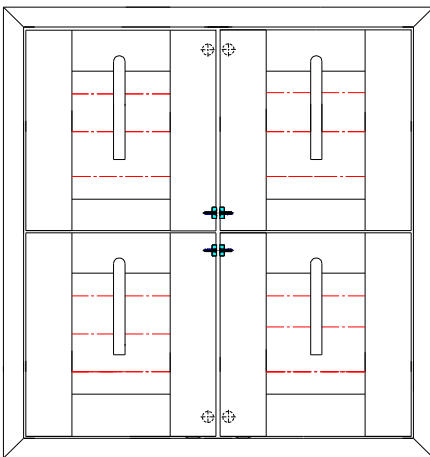
Side Magnet: Only available for Butt and Astragal stile



For Shutter with Astragal Stile, Side Magnets will be applied in following situation:

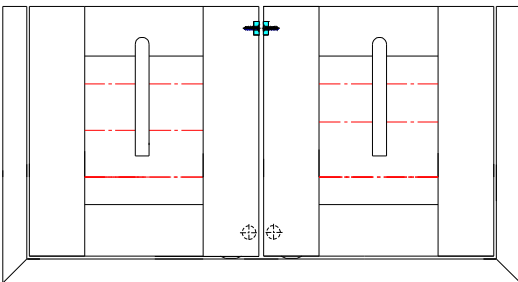
1. Double Hung shutter but without horizontal T post:

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



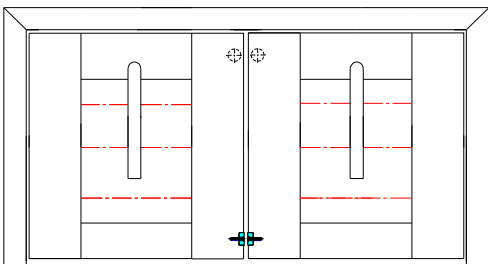
2. Café Shutter

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



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

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



Bi-fold 180™

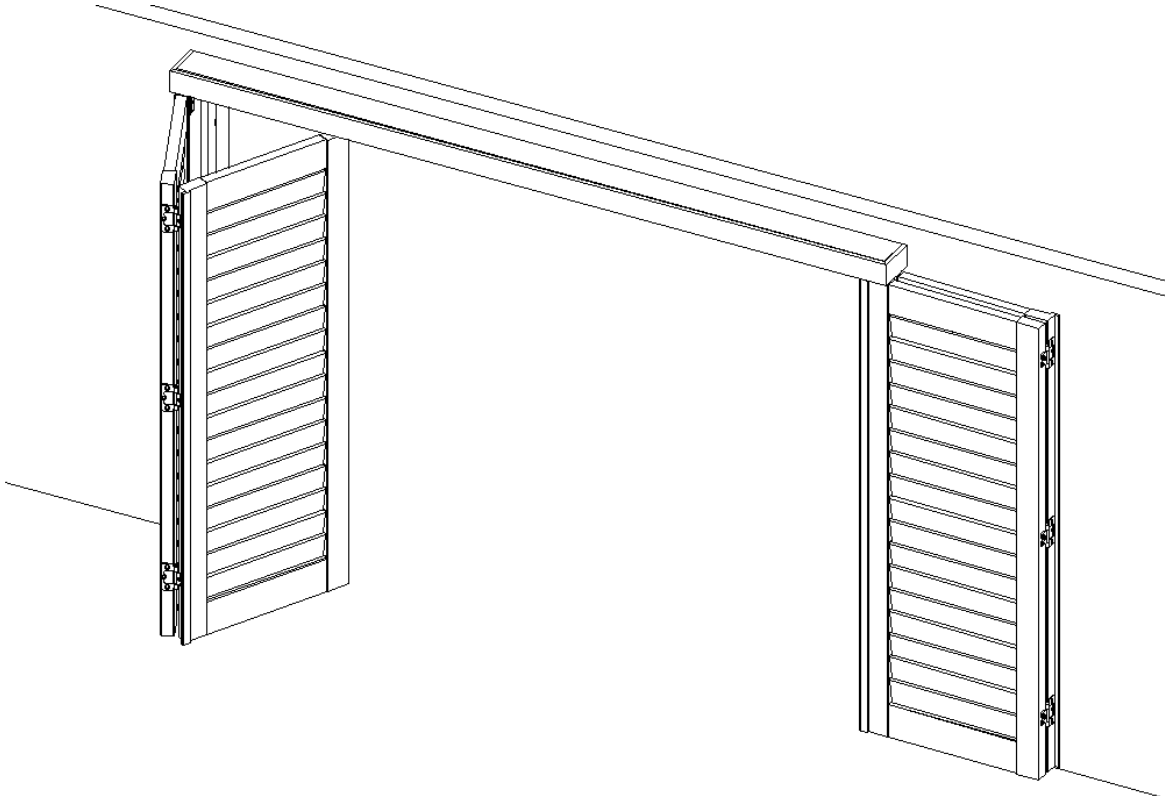
Guidelines and Specs:

<u>Description</u>	<u>Minimum</u>	<u>Maximum</u>		
		1 ¼"	1 ⅞"	2½" ; 3½" ; 4½"
Single-Panel Width (Bi-fold Track)	6"	N/A	24"	24"
Single-Panel Width (LLL/RRR)	N/A	N/A	N/A	N/A
Single-Panel Height	10"	N/A	133"	133"

Outside Mount

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

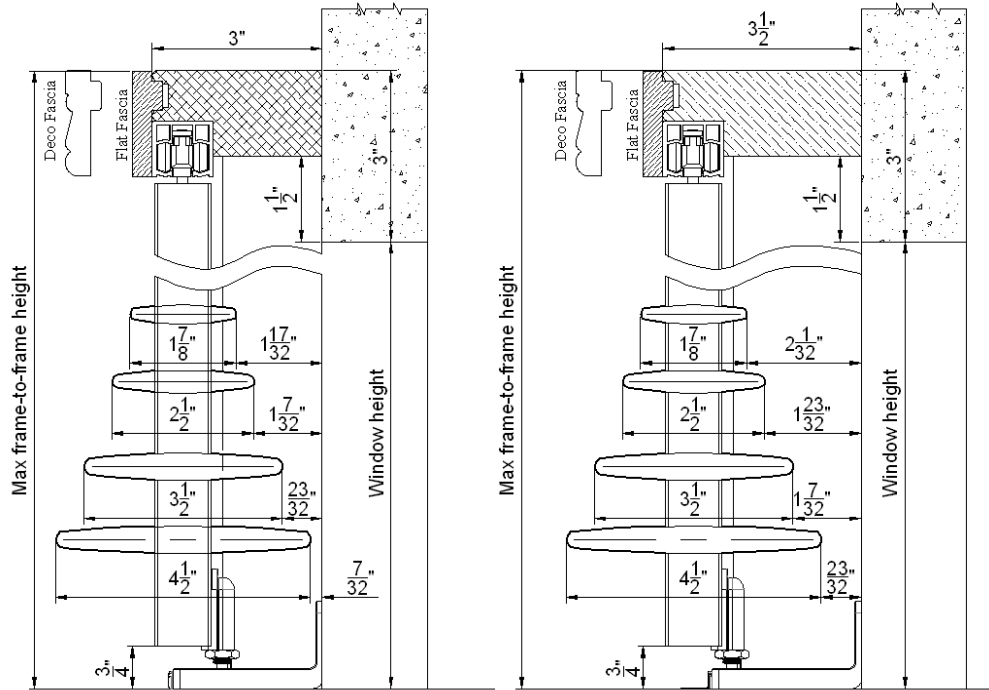
Max frame-to-frame height: window height + 3



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

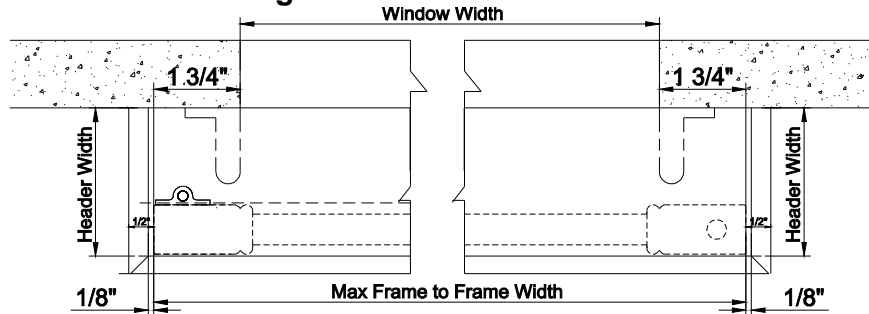
Mounting Options: Outside Mount only

Side View

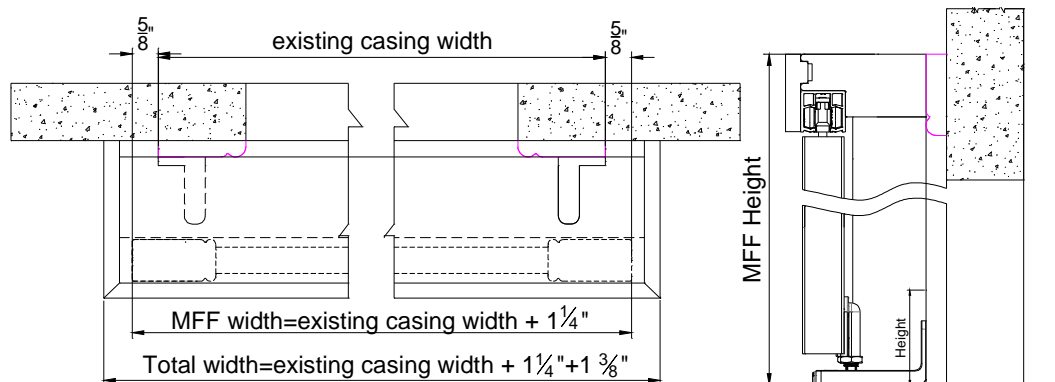


Top View

Without Casing:



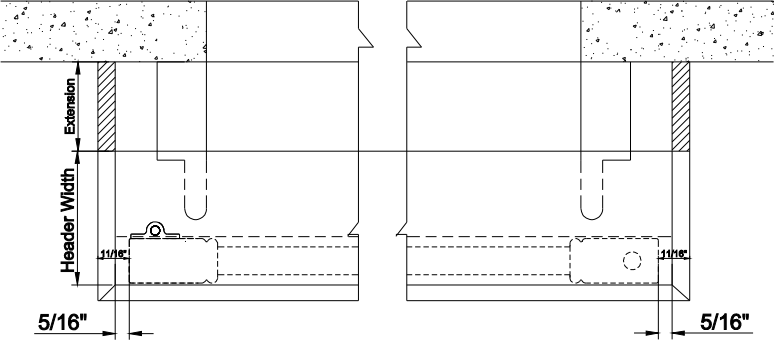
With Existing Casing:



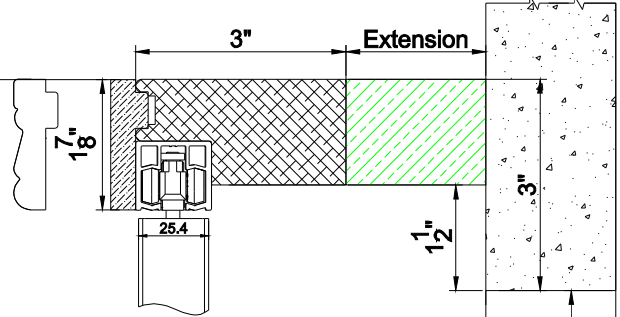
Note:

- ◇ 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.

- ✧ 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.

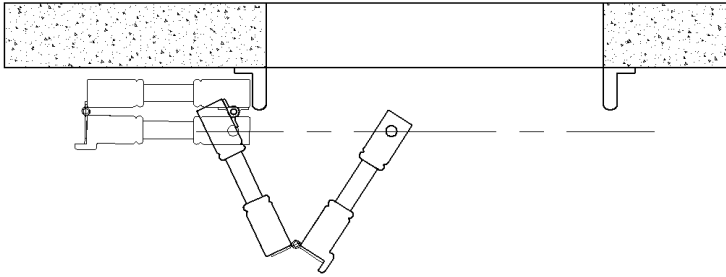


✧ The extension will be pre-attached.

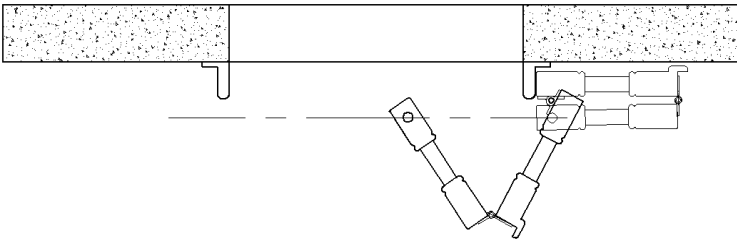


Panel Configuration : Only 2", 2 1/4" astragal and butt stile is available. Center and Rabbet stile is not available.

LL

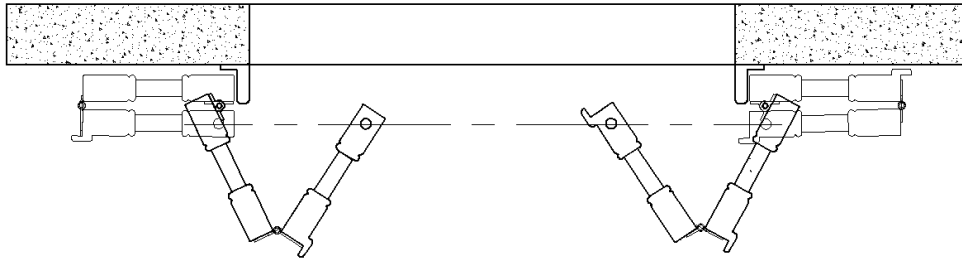


RR



Woodlore [PLUS]

LLRR:



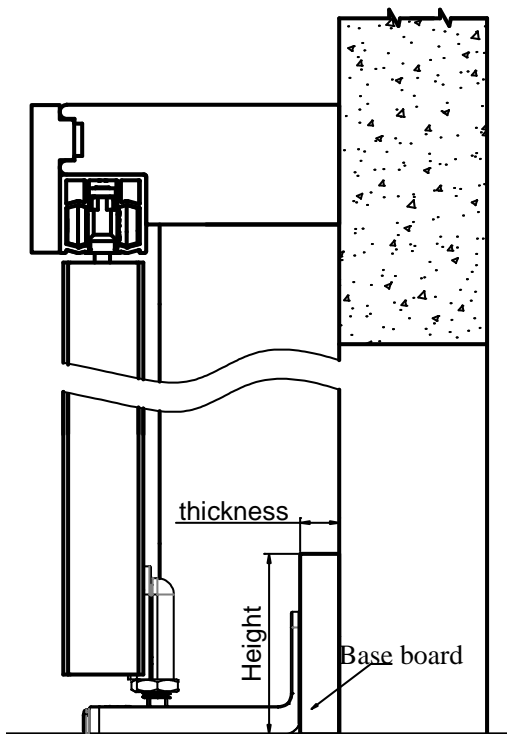
Notes:

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° 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"	1 7/8"	1 1/2"
	3 1/2"		2 "

180° Bi-fold Track Shutters Hardware Box

Parts
Wrench
Hinge Pin
Bottom Pivot Bracket
1 ½ " screws for bottom pivot bracket
2 ½ " screws for Frame

Bi-fold 90

Guidelines and Specs:

<u>Description</u>	<u>Minimum</u>	<u>Maximum</u>		
		1 ¼"	1 ⅞"	2 ½" ; 3 ½" ; 4 ½"
Single-Panel Width (Bi-fold Track)	6"	N/A	24"	24"
Single-Panel Width (Multifold track up to 4 panels)	N/A	N/A	N/A	N/A
Single-Panel Height	10"	N/A	133"	133"

Outside Mount

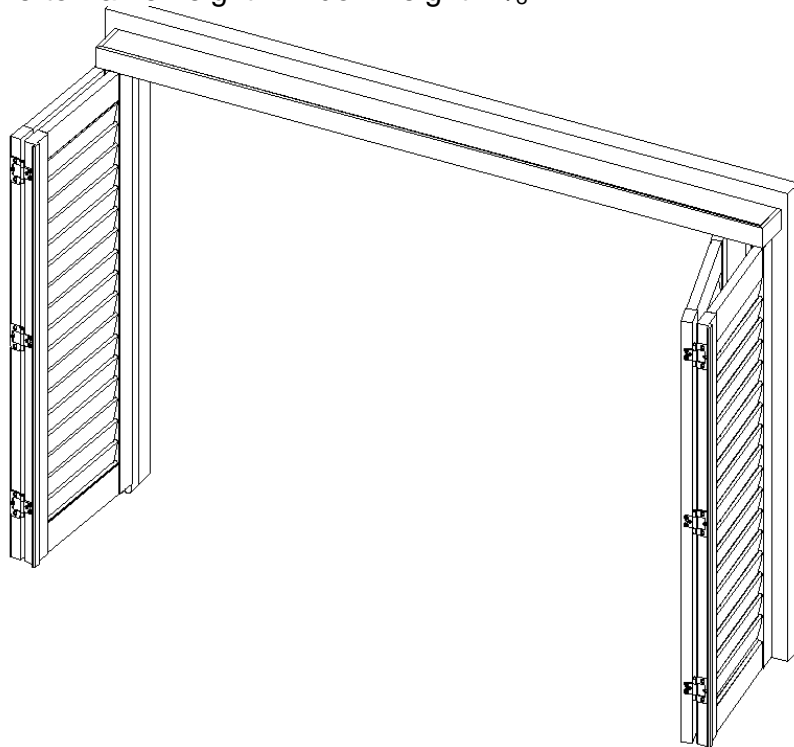
Max frame-to-frame width: window width + 3 1/2"

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

Inside Mount & Semi-Inside Mount

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

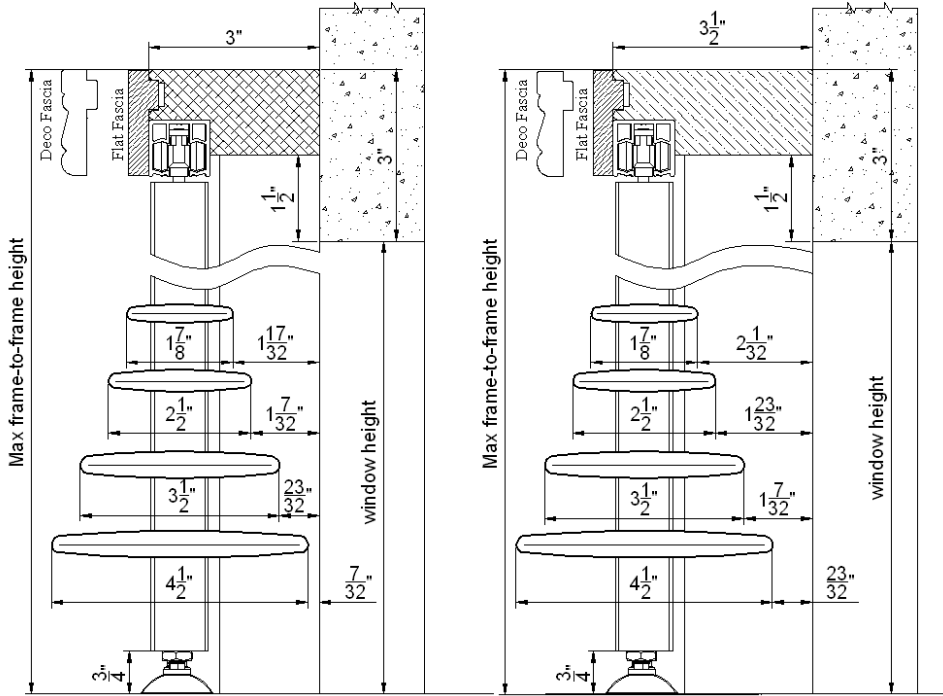
Max frame-to-frame height: window height - 1/8"



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

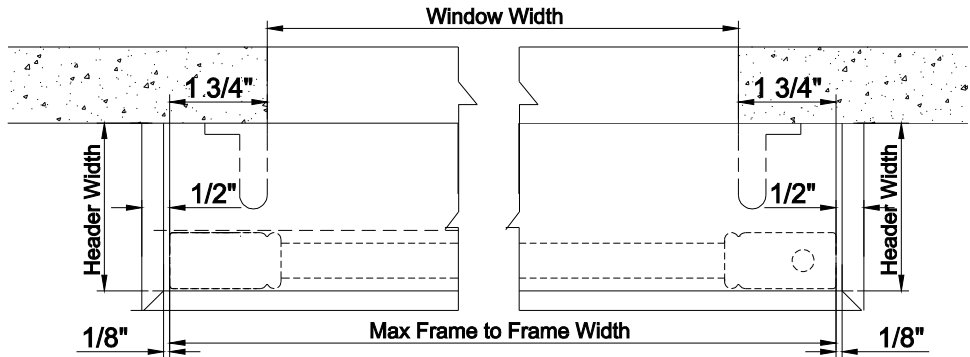
Mounting Options: Outside Mount

Side View



Top View

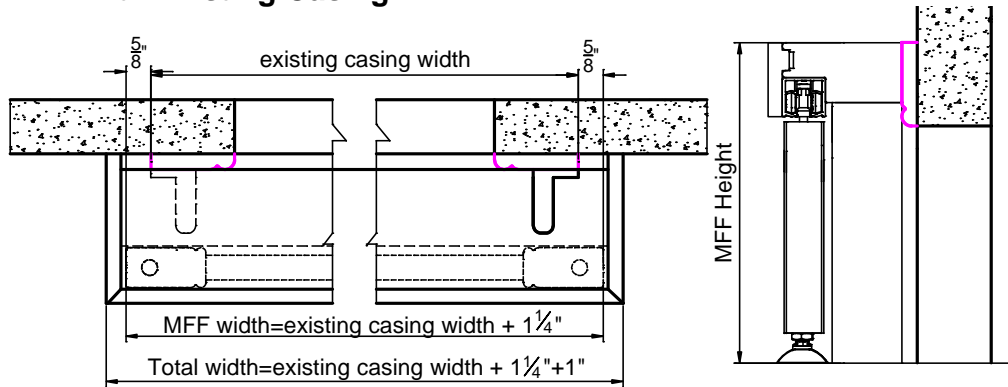
Without Casing:



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:

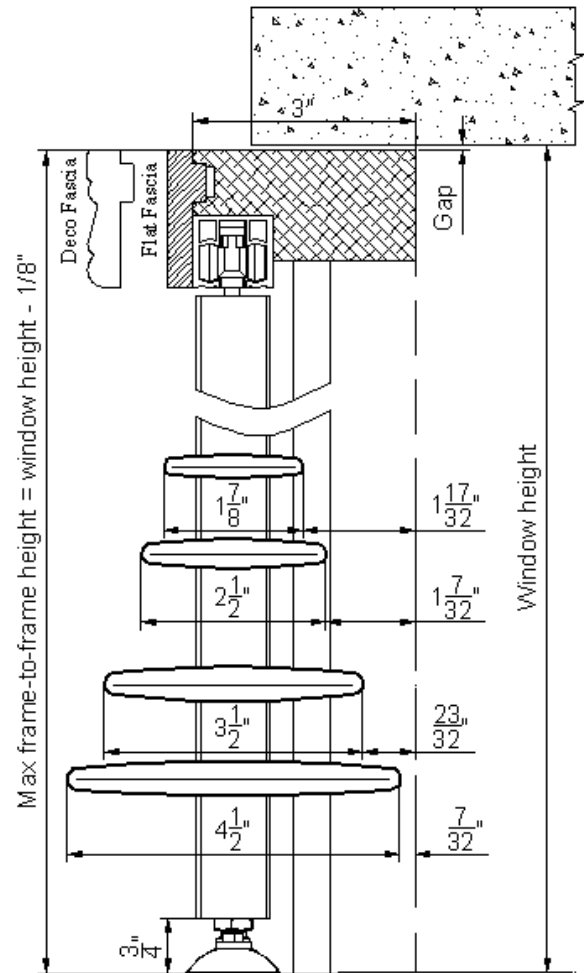
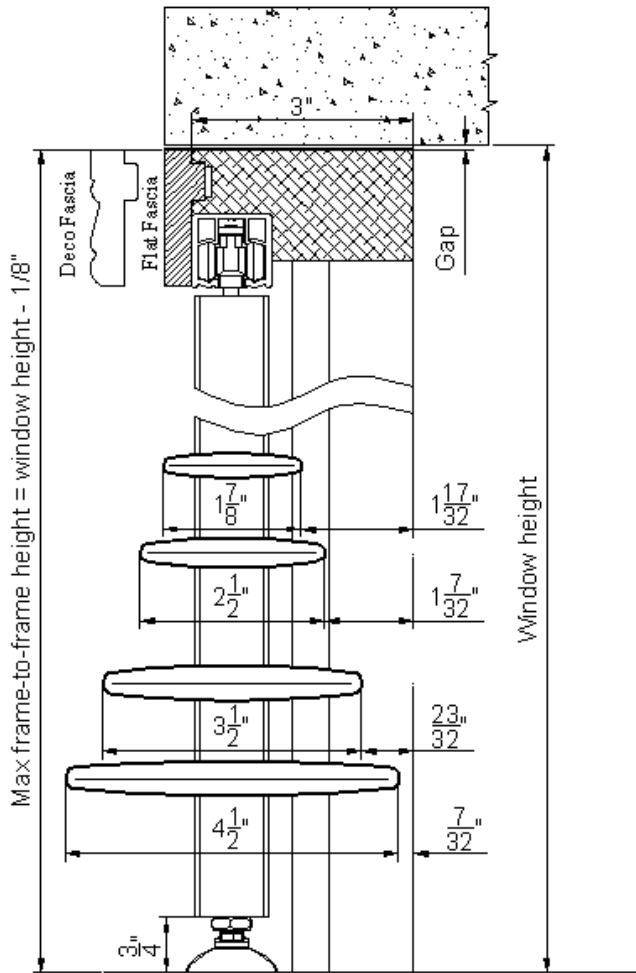


Inside Mount

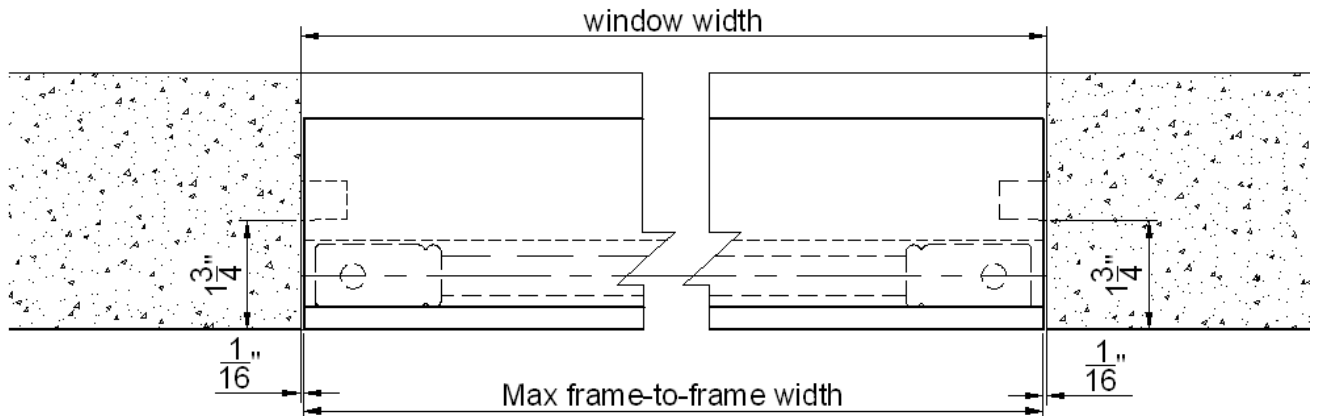
Side View

Inside Mount

Semi-Inside Mount

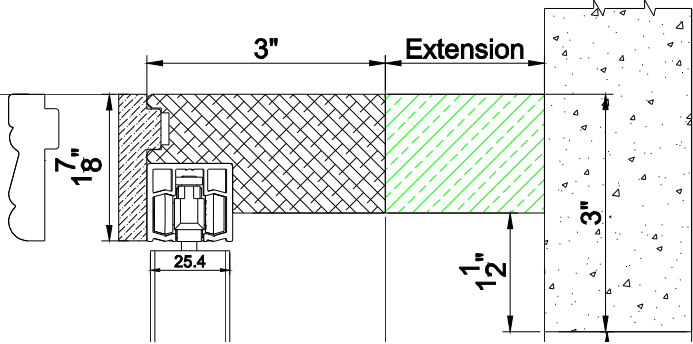


Top View



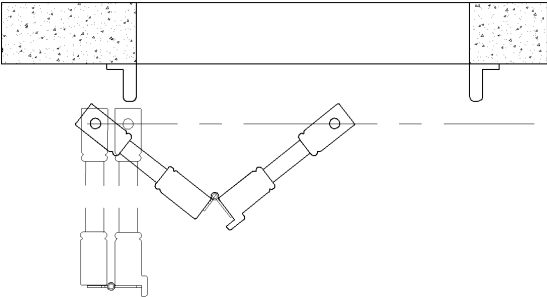
Woodlore [PLUS]

- ◇ Header Extension: Optional.
- ◇ Custom extension up to 2" for Header
- ◇ The extension will be supplied loose with installation screws.

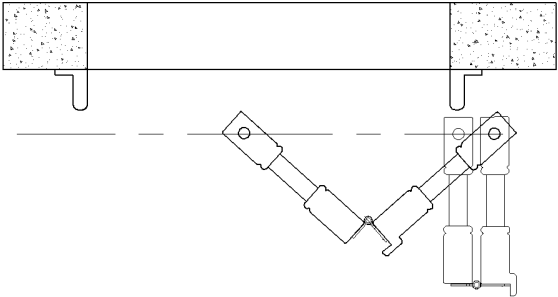


Panel Configuration : Only 2", 2 1/4" astragal and butt stile is available. Center stile and Rabbet is not available.

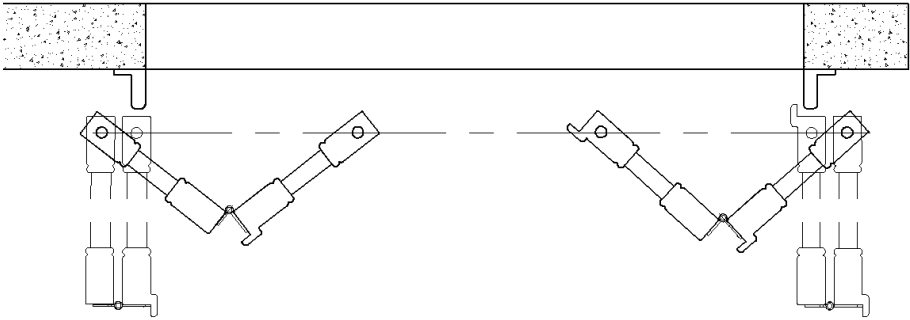
LL



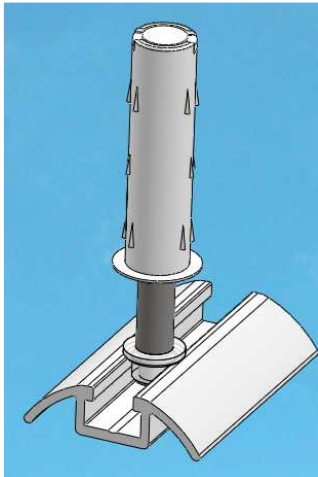
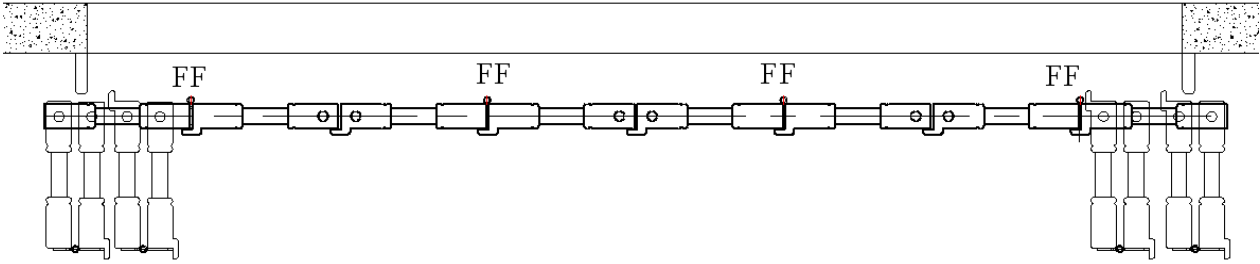
RR



LLRR:

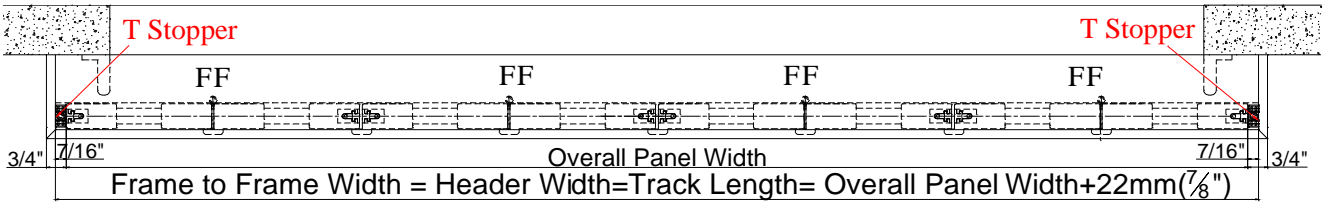


90° Floating Panels

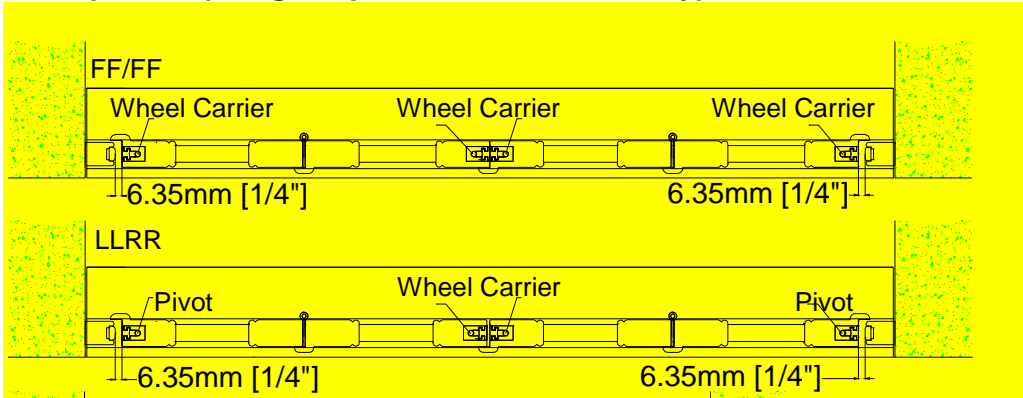


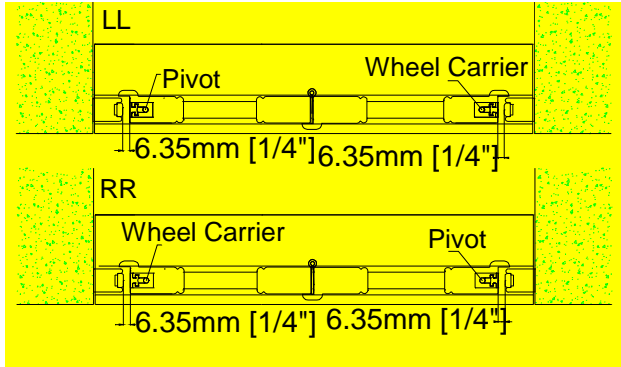
- Two or four panels can be hinged together, fold and slide to either direction
- Application comes with wheel carrier, spring loaded guide and floor track
- Can be used on large window

Note: For 90° Floating Panels outside mount, T Stopper will be supplied and the fascia return will protrude panel 3/4" for each side.

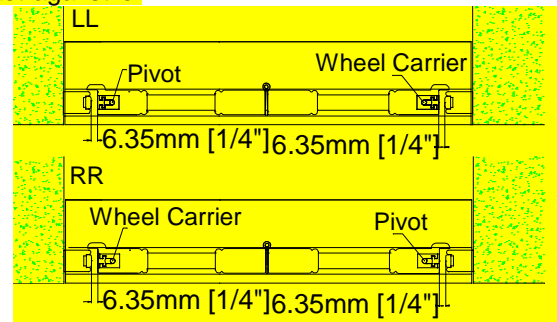
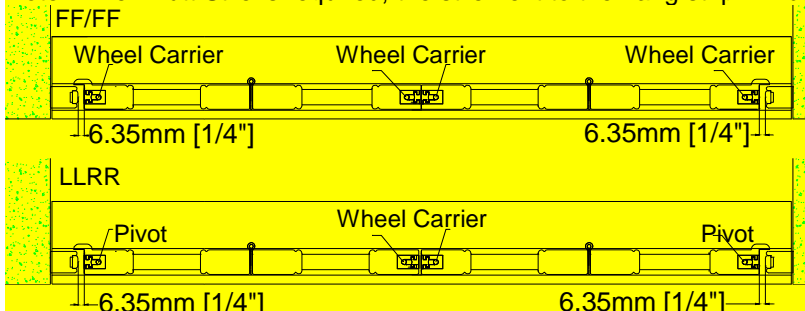


Optional (Hang Strip for Inside Mount Only)





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



90 degree Bi Fold Track Shutters Framing Materials

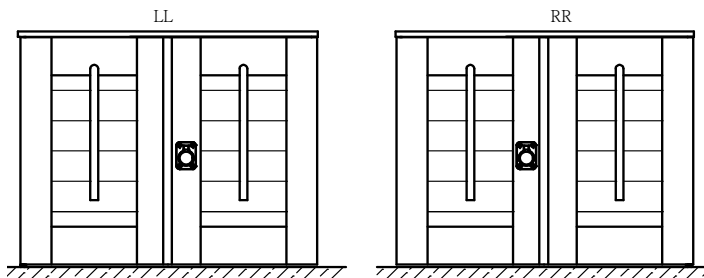
Type		Header Dimension	Top Fascia Dimension	Light Block Strip Dimension	Hang Strip Dimension
Header & Top Fascia & Light Block Strip	OM	3"	1 7/8"	1 1/2"	
		3 1/2"		2"	
	IM	3"		5/8"x3/4"	1.08"x0.875"
	Semi-IM	3"		5/8"x3/4"	

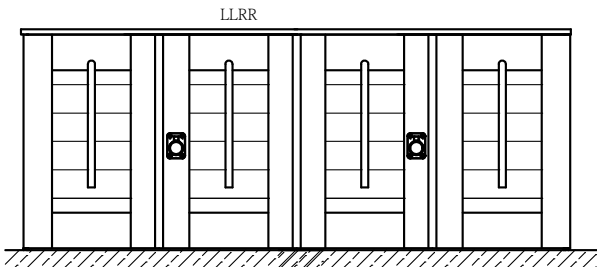
Note: It will be L shape light block strip for outside mount.

Ring Pull: The ring pull will be provided as default for both 90° and 180° Bifold Track Shutters. 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.

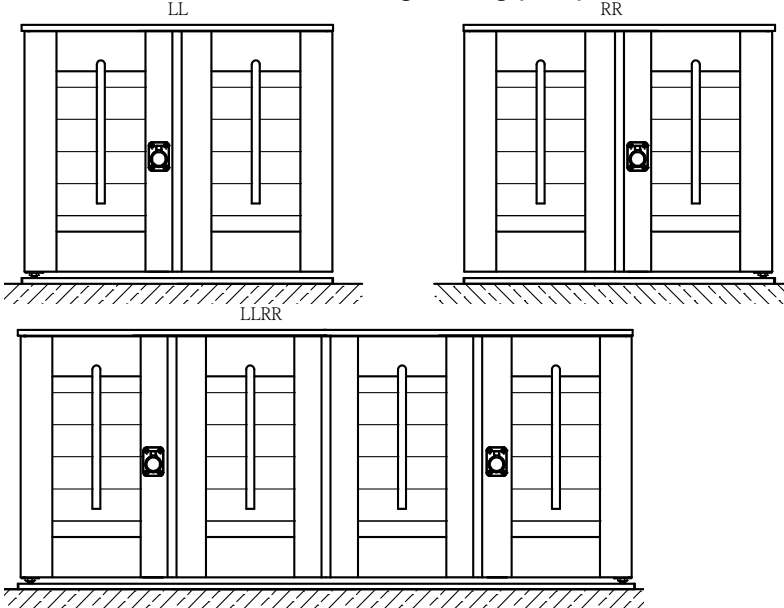
Ring pull color will match the hinge color.

Please refer to below drawing of ring pull position for 180° Bifold Track:



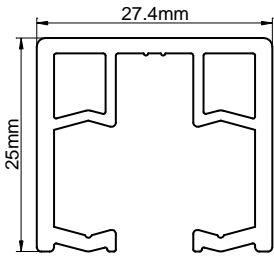


Please refer to below drawing of ring pull position for 90° Bifold Track:

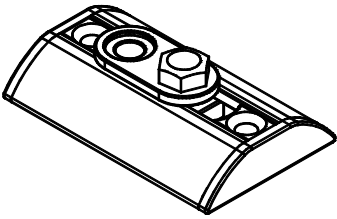


Track Dimension:

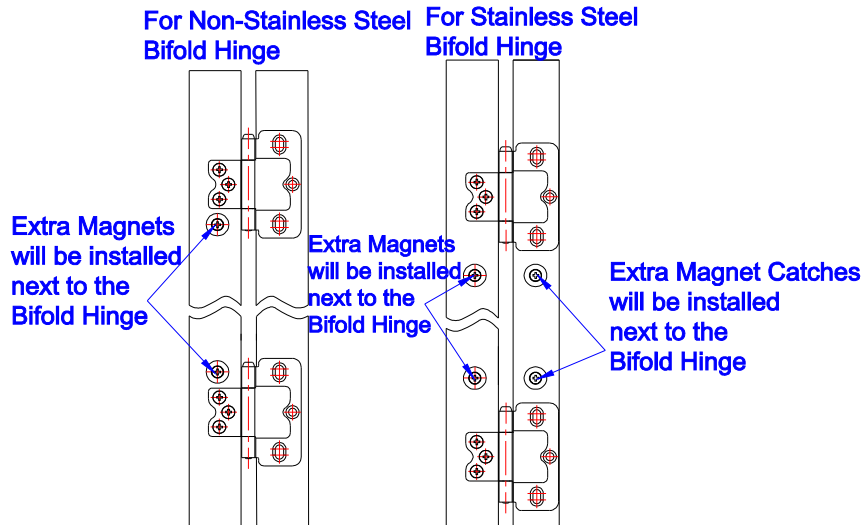
Top Track



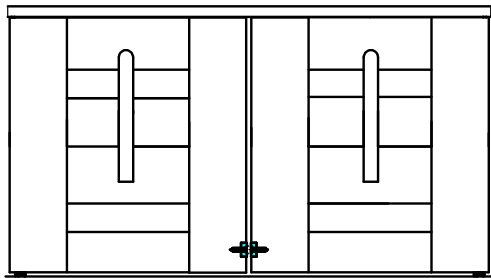
Bottom Pivot Bracket for 90 degree bifold:



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



Side Magnet: applied to the meeting stiles of LR panels



Extra magnet and Side Magnet



90° Bi Fold Track Shutters Hardware Box

Parts
Wrench
Hinge Pin
Bottom Pivot Bracket
38.1mm screws for bottom pivot bracket
63.5mm screws for Frame

Woodlore [PLUS][™]

Track Shutters—Bypass

Guidelines and Specs:

<u>Description</u>	<u>Minimum</u>	<u>Maximum</u>	
		1 ⁷ / ₈ "	2 ¹ / ₂ " 3 ¹ / ₂ " / 4 ¹ / ₂ "
Single-Panel Width (Regular)	6"	24"	36"
Single-Panel Height	10"	133"	133"

Outside Mount

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

Max frame-to-frame height: window height + 4¹/₂"

Semi-Inside Mount

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

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

Inside Mount

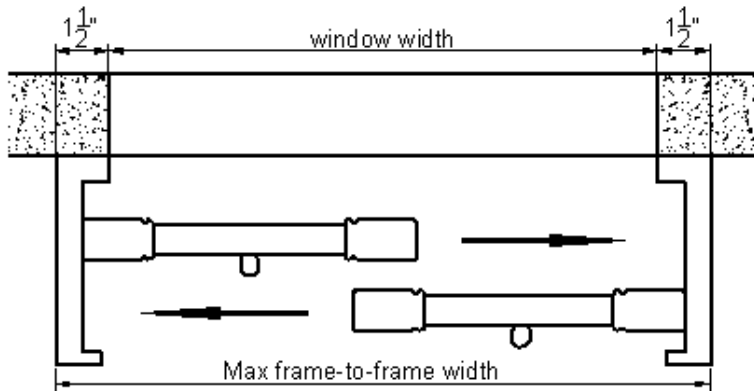
Max frame-to-frame width: window width - ¹/₈"

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

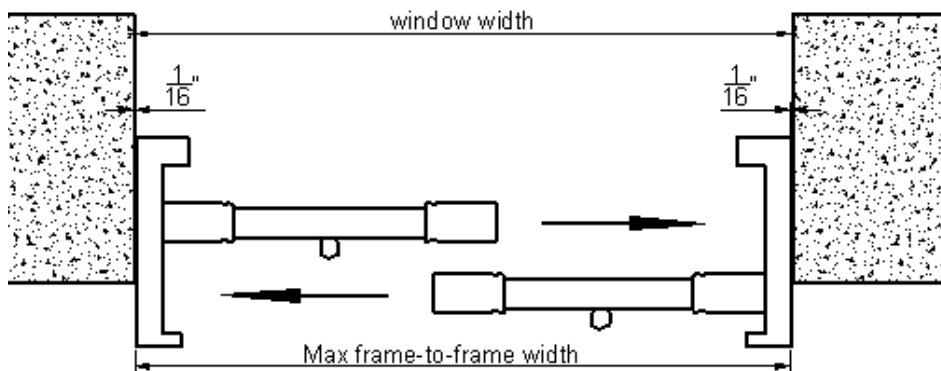
2014 Track Shutters—Bypass

Top View

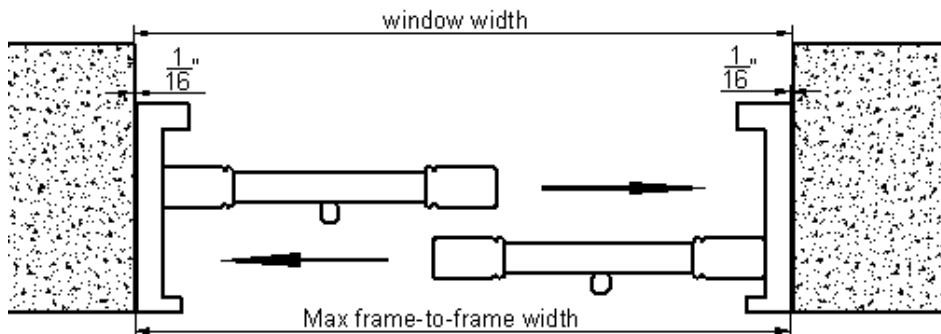
Outside Mount



Semi-Inside Mount



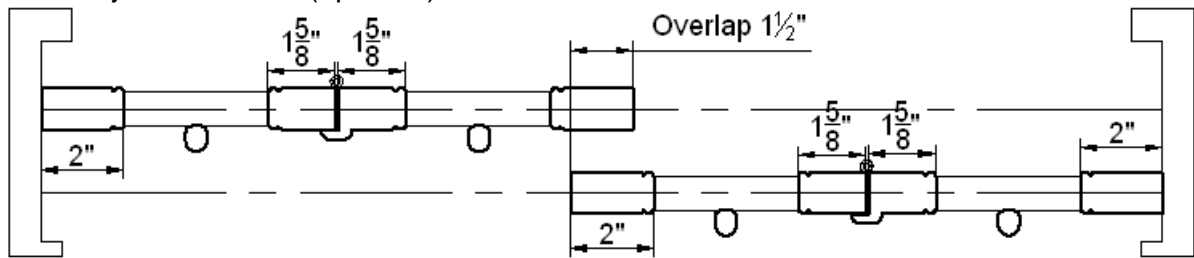
Inside Mount



2014 Track Shutters—Bypass

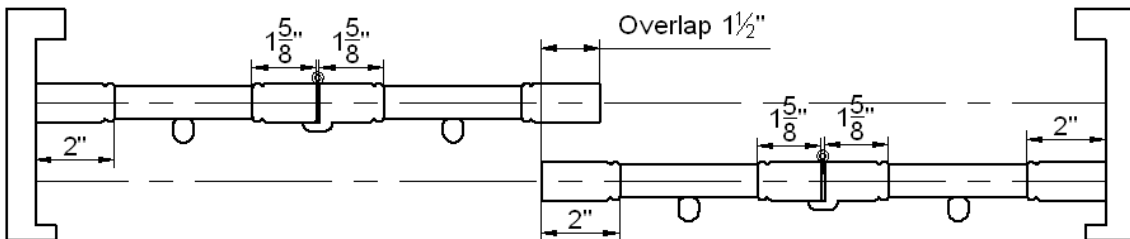
Top View

Combi - joined Panels (optional)

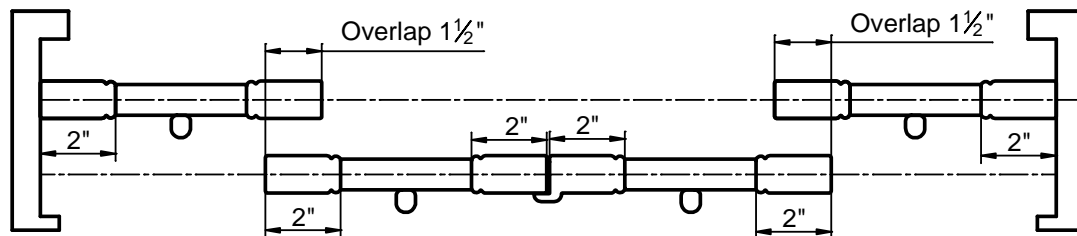


For shutters with 4 or more panels, please select "side open" or "center open"

Side Open



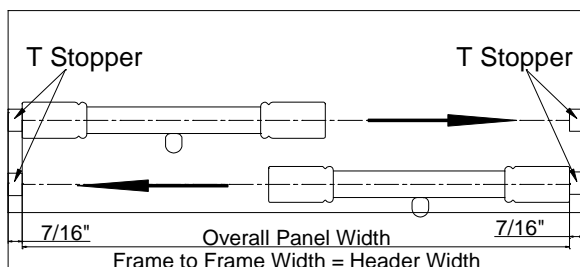
Center Open



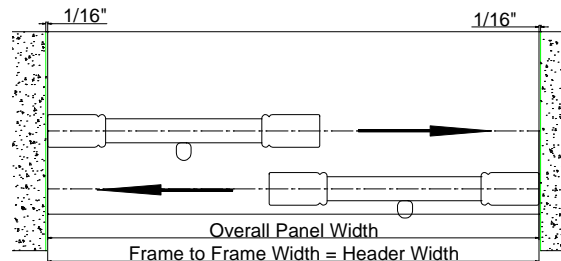
Stile: Only 2", 2 1/4" astragal stiles are available,
1 5/8" astragal stile only used for combi-joined panels.
Center stile is not available.

Size Definition

For Semi-Inside/OM without side boards

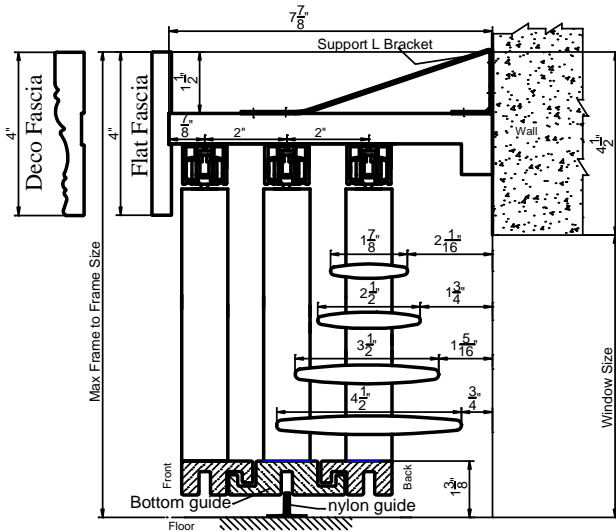


For IM without side boards

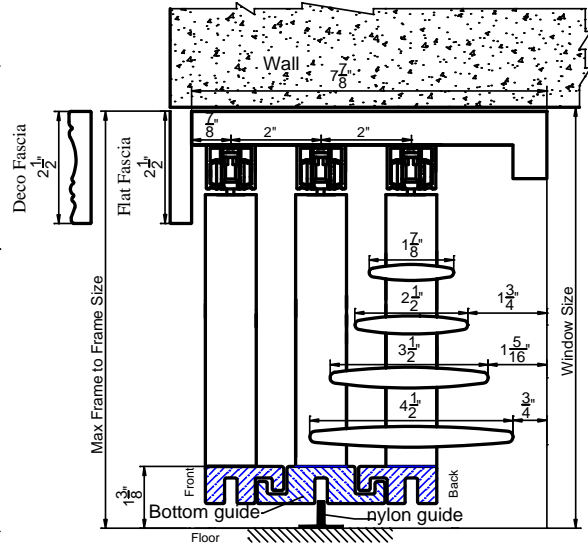


Note: For Semi-Inside/OM without side boards bypass, T Stopper will be supplied.

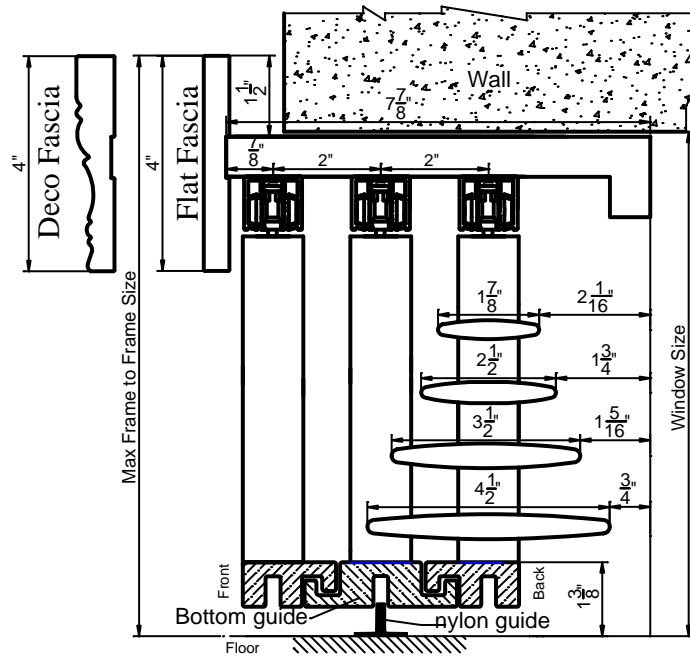
Mounting Options (Closed Bypass with 3 Tracks):



Outside Mount



Inside Mount



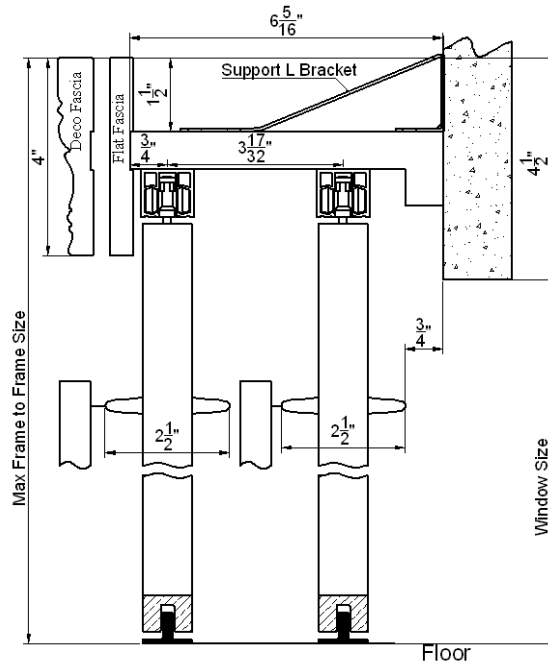
Semi-Inside Mount

Woodlore [PLUS][™]

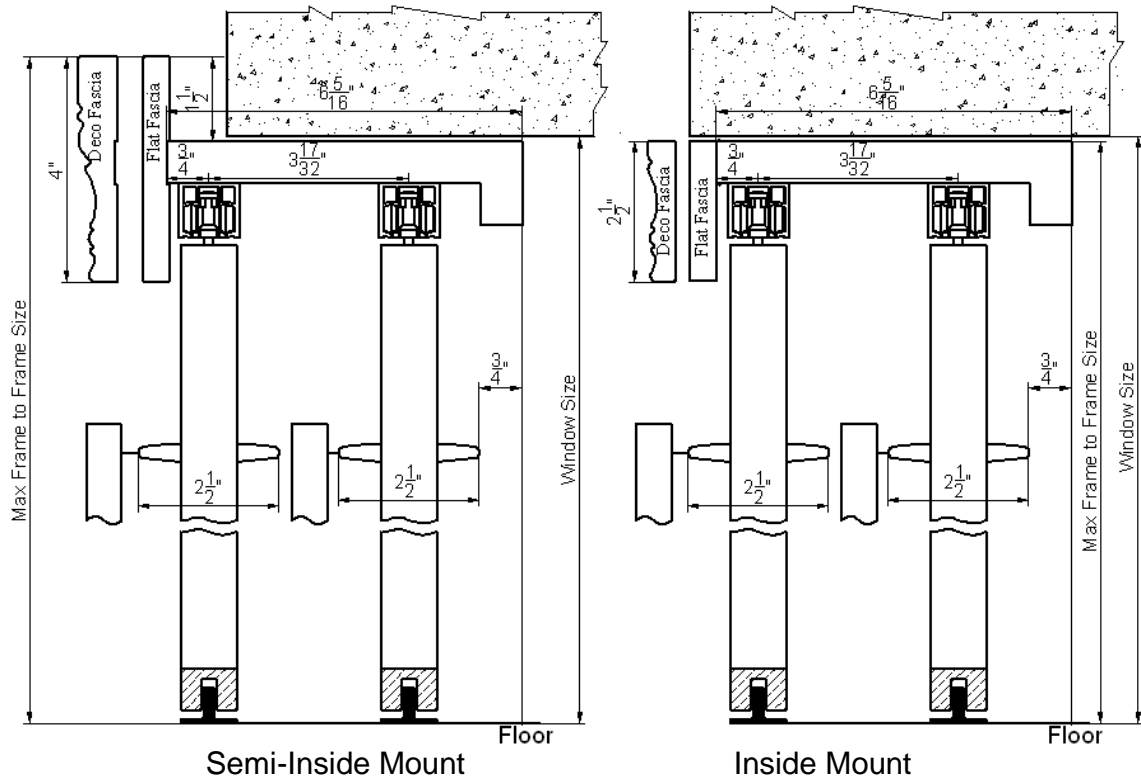
Mounting Options (Opened Bypass)

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

2 1/2" Louver



Outside Mount

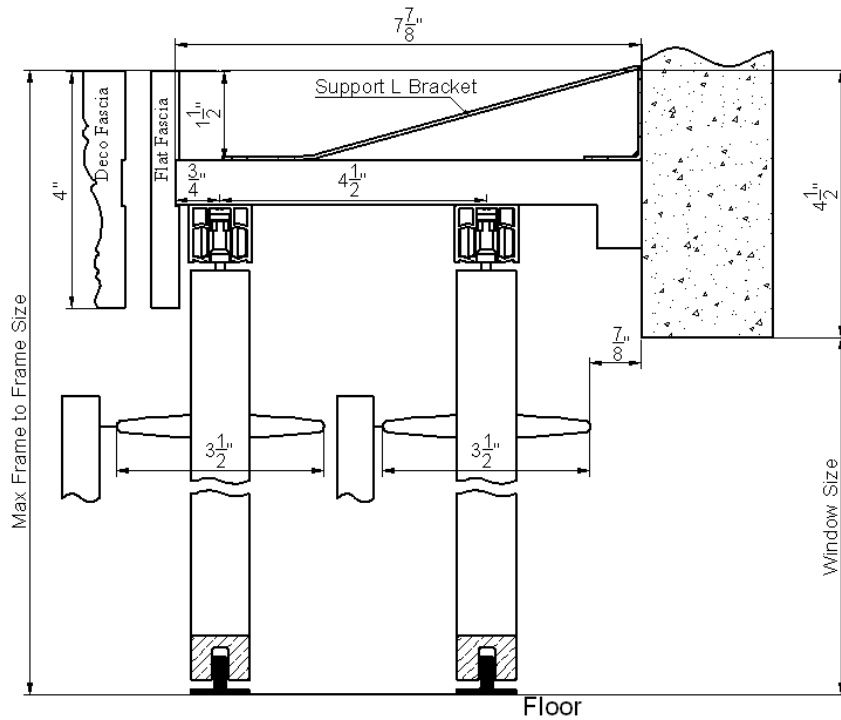


Semi-Inside Mount

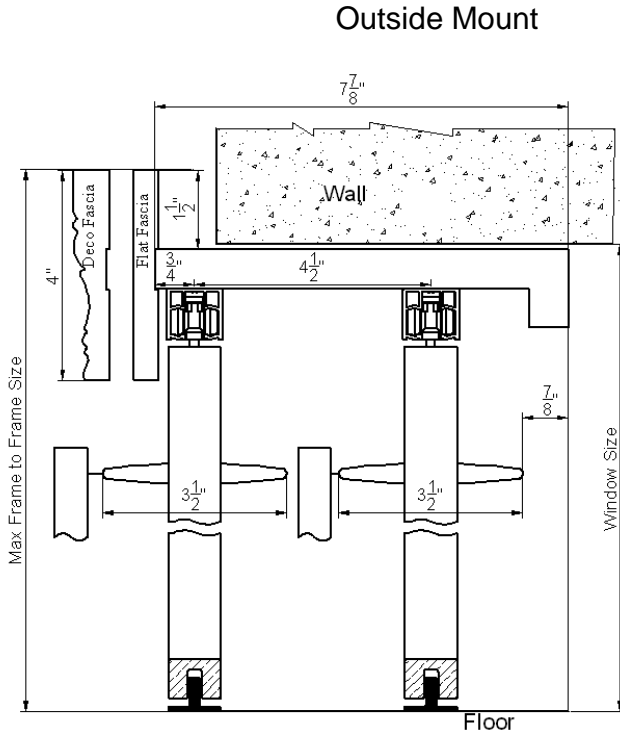
Inside Mount

Woodlore [PLUS][™]

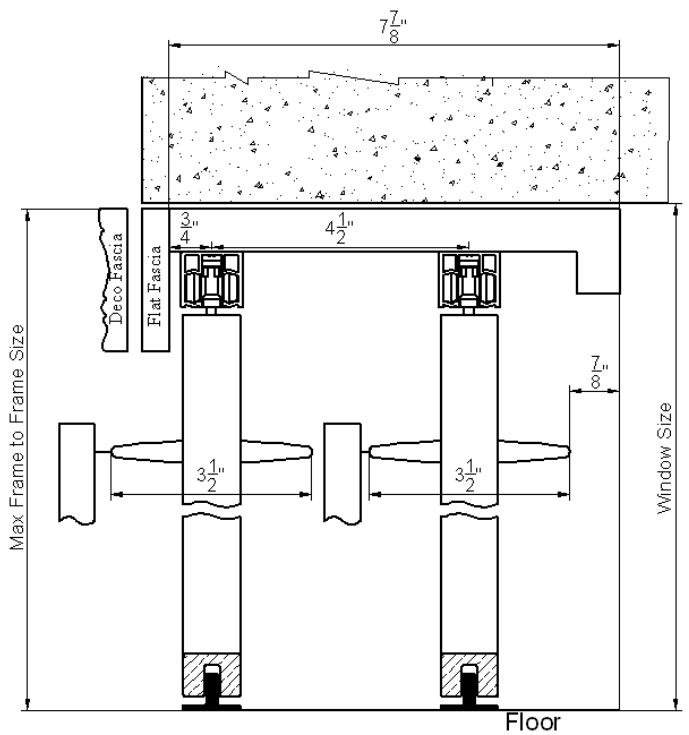
3 1/2" Louver



Outside Mount



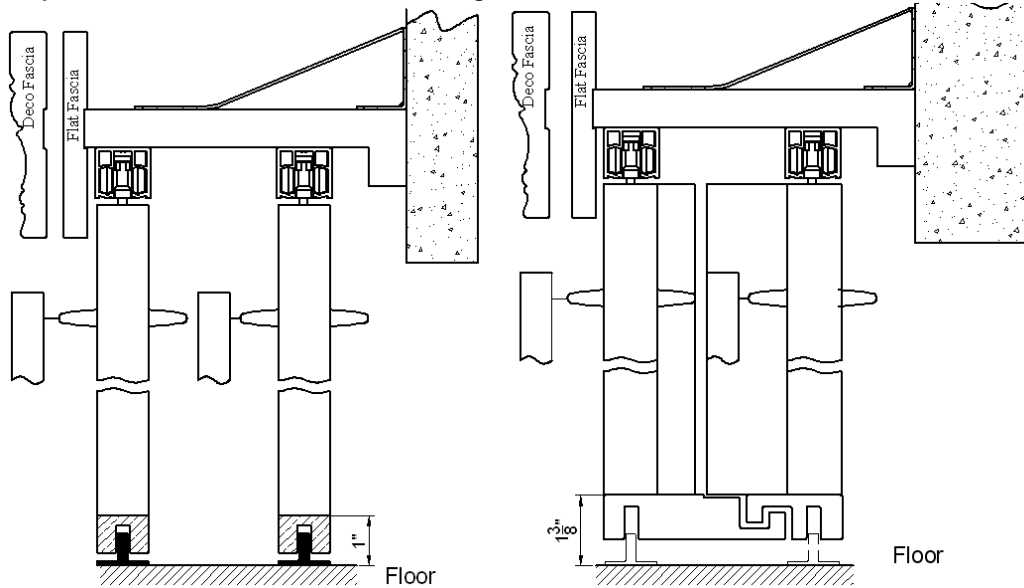
Semi-Inside Mount



Inside Mount

Woodlore [PLUS][™]

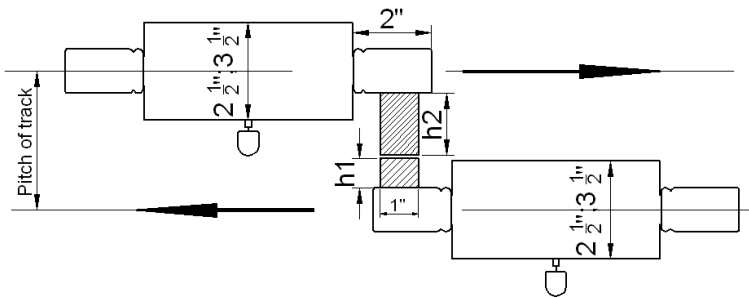
Open By Pass: has 2 kinds of bottom guide



Default Bottom Guide

Optional Interlocking Bottom Guide

Opened Bypass Top View



Pitch of track

Louver	U shape bottom guide		Interlocking bottom guide	
	Regular Tilt Rod	Invisible tilt	Regular Tilt Rod	Invisible tilt
2.5"	3 9/16"	2 3/4"	3 9/16"	3 9/16"
3.5"	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	Invisible tilt	Regular Tilt Rod	Invisible tilt
2.5"	h1	3/4"	3/4"	3/4"	1 9/16"
	h2	1 9/16"	3/4"	1 9/16"	3/4"
3.5"	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"

2014 Track Shutters—Bypass

Track Shutters Framing Materials

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

Woodlore [PLUS][™]

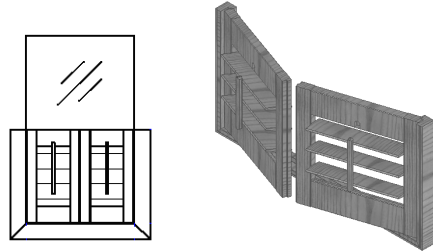
2014 Track Shutters—Bypass

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

Special Options

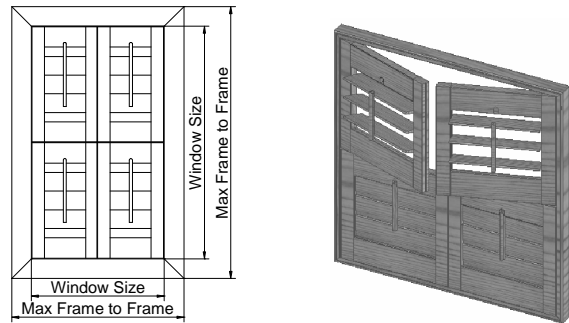
Café Shutters*

- The top of the panel requires a special finish. Please indicate “café shutter” when placing orders.
- The shutter does not come with recessed magnet on top.

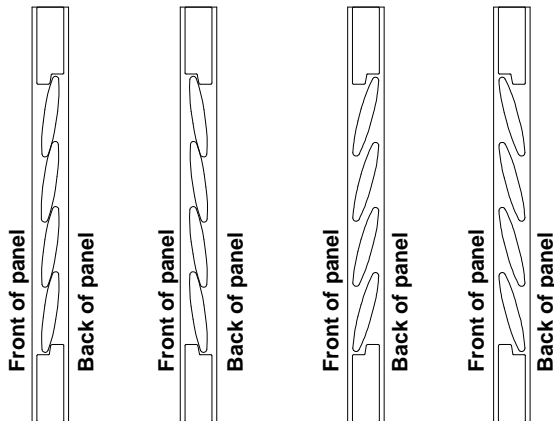
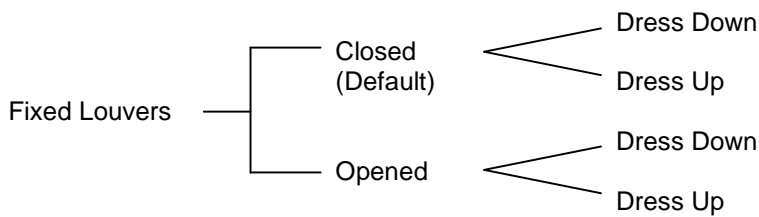


Double-Hung Shutters*

- For total number of panels, please include panels in both rows.
- Bifold panel is not available under this option.
- For panel configuration, please provide panel fold for one row.
- The default location for the division point is the center unless specified otherwise.
- Horizontal T Post* can be added for increased structural integrity.



Fixed Louvers



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

Woodlore [PLUS][™]

Batten for Type E&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 1/2"	3/4"	1 3/8"
4 1/2"	3/4"	1 7/8"

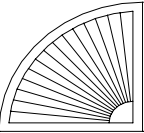
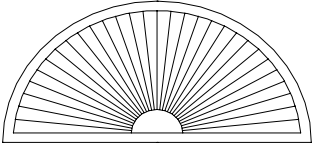
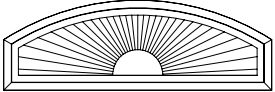
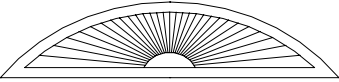
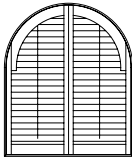
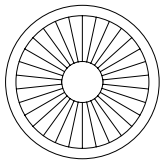
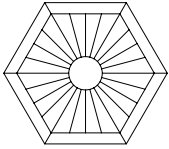
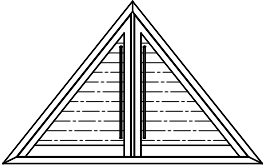
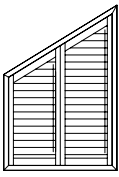
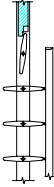
* Surcharge applies. Please see Options and Surcharges page for details.

Specialties

Specialty Shutters*

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

All frames for specialty shutters will be made as solid frames (not with an insert). However, if there is a regular shutter below a specialty shutter and the frames for both shutters are separated by a divider strip, then the top frame will be made as a solid frame but the bottom frames will be made as regular frames with inserts. If the top frames and the side frames are not separated by a divider strip, both side frames and the bottom frames will be made as solid frames.

Arch Windows	Special Shapes
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Quarter Round Sunburst</p> </div> <div style="text-align: center;">  <p>Half Round Sunburst</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  <p>Elongated Eyebrow Sunburst</p> </div> <div style="text-align: center;">  <p>Eyebrow Sunburst</p> </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Louvered Arch w/ Center Tilt Rod</p> </div> <div style="text-align: center;">  <p>Circle Sunburst</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  <p>Hexagon Sunburst</p> </div> <div style="text-align: center;">  <p>Triangle</p> </div> </div>
Angle Top	
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Angle Top</p> </div> <div style="text-align: center;">  <p>*Top louver of angle top might be fixed as shown above</p> </div> </div>	

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

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 Deco Sill Frame	(Width+4")	x	(Height+5")	/ 144	x \$/sq ft
	3-sided with Designer Sill Cap	(Width+4")	x	(Height+8")	/ 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 Deco Sill Frame	(Width+4")	x	(Height+3")	/ 144	x \$/sq ft
	2-sided with Designer Sill Cap	(Width+4")	x	(Height+6")	/ 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 Deco Sill Frame	(Width+6")	x	(Height+6")	/ 144	x \$/sq ft
	3-sided with Designer Sill Cap	(Width+6")	x	(Height+9")	/ 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 Deco Sill Frame	(Width+6")	x	(Height+3")	/ 144	x \$/sq ft
	2-sided with Designer Sill Cap	(Width+6")	x	(Height+6")	/ 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
3" Crown Z Frame	4-sided	(Width+4 ½")	x	(Height+4½")	/ 144	x \$/sq ft
	3-sided with Deco Sill Frame	(Width+4 ½")	x	(Height+5¼")	/ 144	x \$/sq ft
	3-sided with Designer Sill Cap	(Width+4 ½")	x	(Height+8¼")	/ 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 Deco Sill Frame	(Width+4 ½")	x	(Height+3")	/ 144	x \$/sq ft
	2-sided with Designer Sill Cap	(Width+4 ½")	x	(Height+6")	/ 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	4-sided	(Width+2 ½")	x	(Height+2½")	/ 144	x	\$/sq ft
	3-sided with Deco Sill Frame	(Width+2 ½")	x	(Height+4¼")	/ 144	x	\$/sq ft
	3-sided with Designer Sill Cap	(Width+2 ½")	x	(Height+7¼")	/ 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 Deco Sill Frame	(Width+2 ½")	x	(Height+3")	/ 144	x	\$/sq ft
	2-sided with Designer Sill Cap	(Width+2 ½")	x	(Height+6")	/ 144	x	\$/sq ft
	2-sided with Sill Plate	(Width+2 ½")	x	(Height+1¼")	/ 144	x	\$/sq ft
	2-sided	(Width+2 ½")	x	(Height)	/ 144	x	\$/sq ft
1 ½ " Bullnose Z Frame/ 1 ¼ " Beaded Z Frame/ Bullnose Tilt Out Z Frame	4-sided	(Width+2")	x	(Height+2")	/ 144	x	\$/sq ft
	3-sided with Deco Sill Frame	(Width+2")	x	(Height+4")	/ 144	x	\$/sq ft
	3-sided with Designer Sill Cap	(Width+2")	x	(Height+7")	/ 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 Deco Sill Frame	(Width+2")	x	(Height+3")	/ 144	x	\$/sq ft
	2-sided with Designer Sill Cap	(Width+2")	x	(Height+6")	/ 144	x	\$/sq ft
	2-sided with Sill Plate (N/A w/ Tilt out Z)	(Width+2")	x	(Height+1")	/ 144	x	\$/sq ft
	2-sided	(Width+2")	x	(Height)	/ 144	x	\$/sq ft
Vintage Hang Strip	Inside	Width	x	Height	/ 144	x	\$/sq ft
	Outside 4-sided	(Width+3")	x	(Height+3")	/ 144	x	\$/sq ft
	Outside 3-sided with Deco Sill Frame	(Width+3")	x	(Height+4½")	/ 144	x	\$/sq ft
	Outside 3-sided with Designer Sill Cap	(Width+3")	x	(Height+7½")	/ 144	x	\$/sq ft
	Outside 3-sided	(Width+3")	x	(Height+1½")	/ 144	x	\$/sq ft
	Outside 2-sided with Deco Sill Frame	(Width+3")	x	(Height+3")	/ 144	x	\$/sq ft
	Outside 2-sided with Designer Sill Cap	(Width+3")	x	(Height+6")	/ 144	x	\$/sq ft
	Outside 2-sided	(Width+3")	x	(Height)	/ 144	x	\$/sq ft
Vintage L Frame/ Beaded L Frame/ Bullnose L Frame/	Inside (max frame to frame measurement only)	Width	x	Height	/ 144	x	\$/sq ft
	Outside 4-sided	(Width+3")	x	(Height+3")	/ 144	x	\$/sq ft
	Outside 3-sided with Deco Sill Frame	(Width+3")	x	(Height+4½")	/ 144	x	\$/sq ft
	Outside 3-sided with Designer Sill Cap	(Width+3")	x	(Height+7½")	/ 144	x	\$/sq ft
	Outside 3-sided	(Width+3")	x	(Height+1½")	/ 144	x	\$/sq ft
	Outside 2-sided with Deco Sill Frame	(Width+3")	x	(Height+3")	/ 144	x	\$/sq ft
	Outside 2-sided with Designer Sill Cap	(Width+3")	x	(Height+6")	/ 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

Options and Surcharges

Option	Surcharge	Remark
1 $\frac{7}{8}$ " Louver	10%	
Beaded L Frame with $\frac{1}{4}$ " Thick Light Block	No surcharge	
L Frame with $\frac{1}{2}$ " & 1" Buildout	5%	
Deco Frame with $\frac{1}{2}$ ", 1" & 1 $\frac{1}{2}$ " Extension	5%	
Custom extension	10%	Up to 2" for L Frames, Deco Frames and Hang Strip (OM) Up to 1" for Z frames (n/a for Tilt Out Z frame)
T Post	No surcharge	
T Post Extension	5%	Up to 2"
90 degree Corner Post & 135 degree Bay Post	No surcharge	
Custom Notch Out	10%	
Double Hung / Horizontal 1 $\frac{3}{4}$ " T Post	10%	Bifold configuration not available
Custom Angle/Depth Bay Post	5%	Up to 2" for custom depth
Extra Light Block	Charge per linear ft	Please contact your Customer Account Specialist for details
Scribe Trim	Charge per linear ft	Please contact your Customer Account Specialist for details
Center Tilt Rod	No surcharge	
Offset Tilt Rod	5%	
InvisibleTilt [™]	10%	Panels over 48" will have a split InvisibleTilt tilt rod. Not available in 1 $\frac{7}{8}$ " louvers.
Café Shutters	30%	Surcharge applies when the frame exceeds 5" beyond the top of the panel.
Fixed Louvers	No surcharge	Please indicate fixed position: up/down and open/close
Track (Bi Fold / Bypass)	40%	
Stainless Steel Hinges	5%	
Specialty Shapes	See specialty surcharge	
Classic Black	Custom Color	

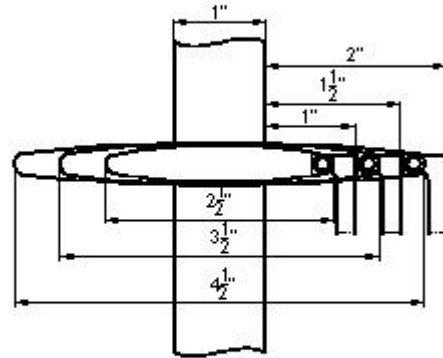
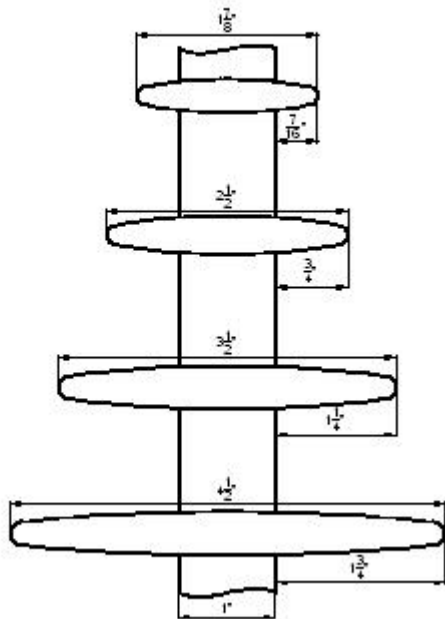
Appendix

Color Coordination Chart

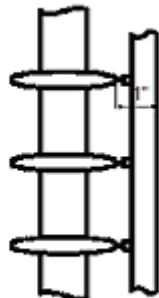
Color ID	Solid color	Default Hinge Colour	Default Track Colour	
001	Pure White	Silk White	Silk White	
003	Silk White			
004	Bright White			
006	Pearl	Pearl		
007	Ivory Lace	Bisque		
008	Marshmallow			
009	Creamy			
011	Cameo			
012	Crisp Linen			
013	Bisque			
016	Butter	Nickel Plated		Anodised Silver
019	String			
030	Moondust		Nickel Plated	Anodised Silver
032	Sea Mist			
046	Ice	Silk White	Silk White	
048	Chai	Nickel Plated	Anodised Silver	
049	Stone Grey			
051	Brown Grey			
053	Clay			
063	Decorator's White	Silk White	Silk White	
836	Classic Black 10% surcharge	Black	Anodised Silver	

Louver Depth Clearance

Standard Tilt Rod



Offset Tilt Rod

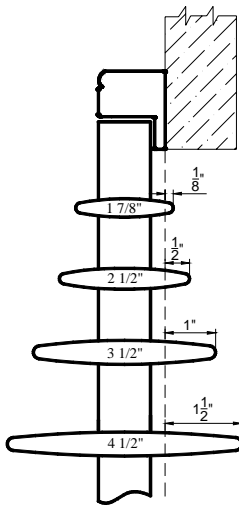


Offset tilt rod projects 1" from the edge of the louvers.

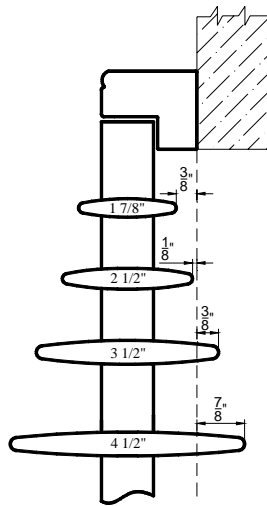
Louver Depth Clearance For Specific Frames

Louver Depth Clearance for

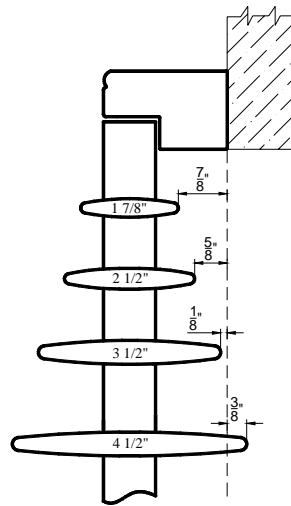
- Offset tilt rod, add 1"



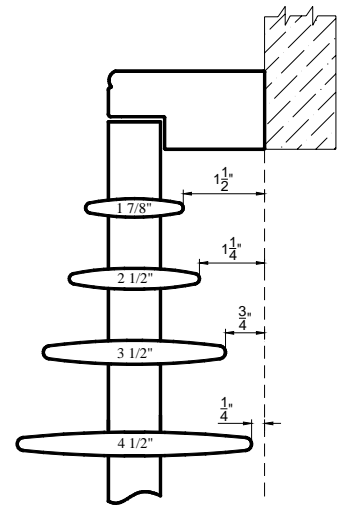
L Frame
w/ 13/64 " Light Block



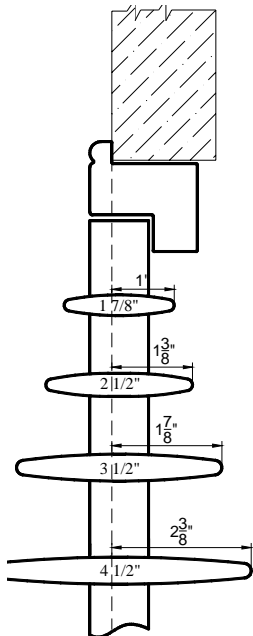
L Frame



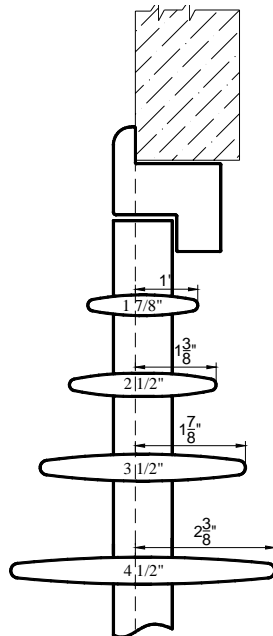
L Frame
w/ 1/2 " Buildout



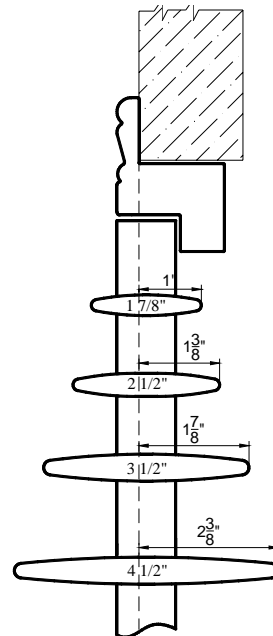
L Frame
w/ 1" Buildout



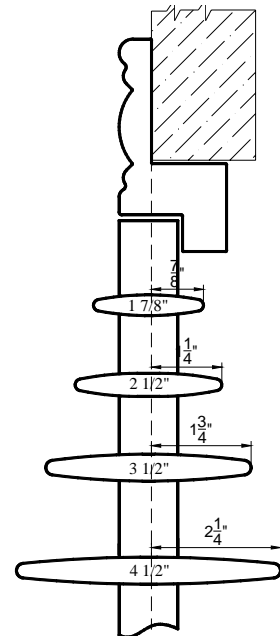
1 1/4 " Beaded Z Frame



1 1/2" Bullnose Z Frame

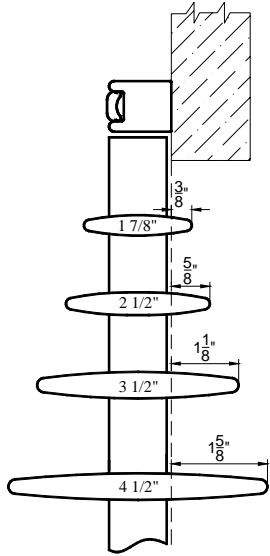


2" Bel Air Z Frame

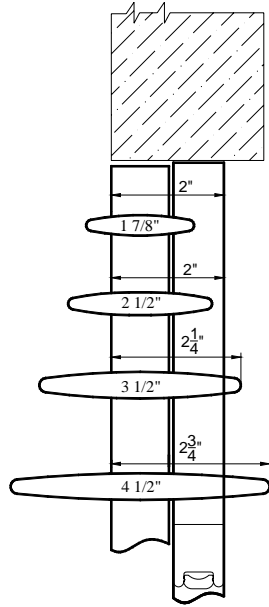


3" Crown Z Frame

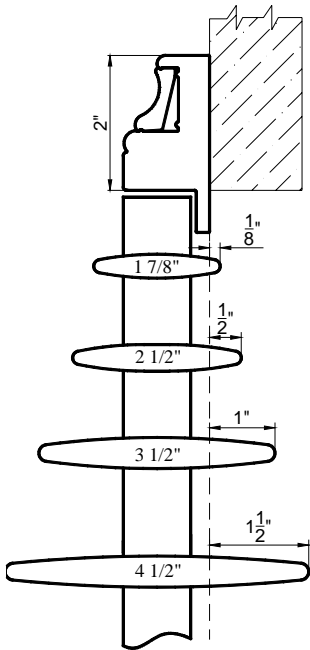
Louver Depth Clearance For Specific Frames



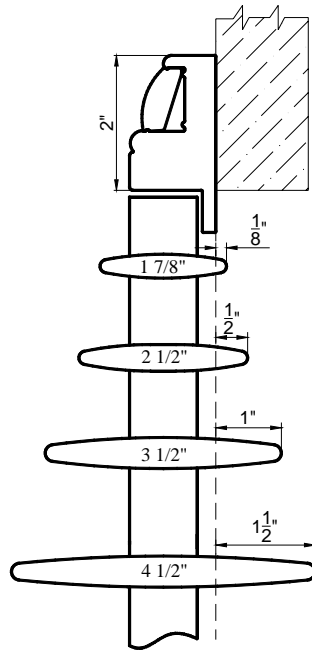
Hang Strip
(beside the panel)



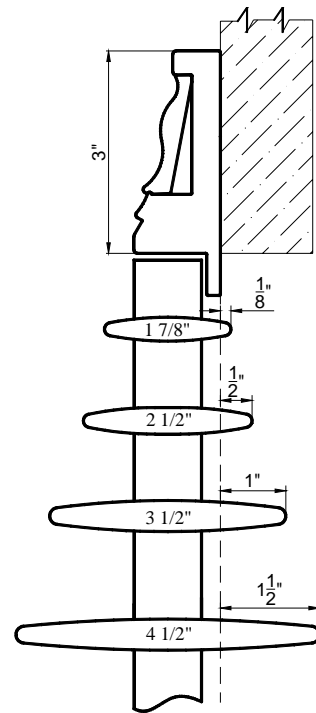
Hang Strip
(behind the panel)



2" Classic Deco Frame



2" Camber Deco Frame



3" Ridge Deco Frame