



2015 Log

Date	Topic	Page	Note		
Jan.6th	Special Options	ND k-2	Batten Size for Type E/F (Add Batten width column)		
Jan. 6th	2014 Track Shutter-90 Bifold	ND j1-11	Hang Strip for Inside Mount Only		
Jan.15th	Tilt Rod	ND g-1	Louver Size	Maximum Possible Louvers	Height Range
			2½"	24	54 ¾" – 57 ¼"
			3½"	16	54 ¾" – 58"
			4½"	12	54 ¾" – 60"
Jan.15 th	Track Shutter-Bypass	ND J2-1~ND J2-11	Old Track Shutter-Bypass discontinue(delete page1~11)		
Jan.15 th	Stile Options	ND c-1	Delete Center Stile		
Jan.23 rd	Closed bypass with 3 tracks	ND j2-5	Header size changed to 7 7/8"		
Jan.26 th	Bifold&Bypass	ND j1-1,7,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	ND j1-3	Change extension for header supply loose to pre-attached		

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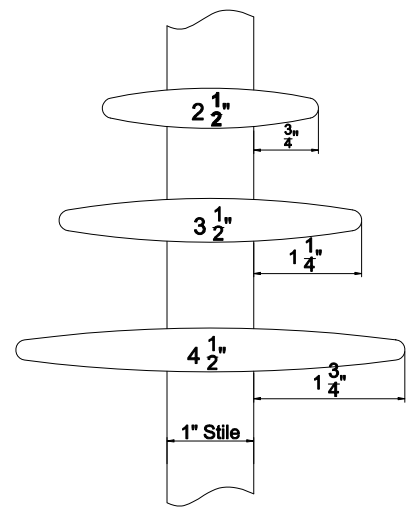


Features and Benefits

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

Colors & Louvers

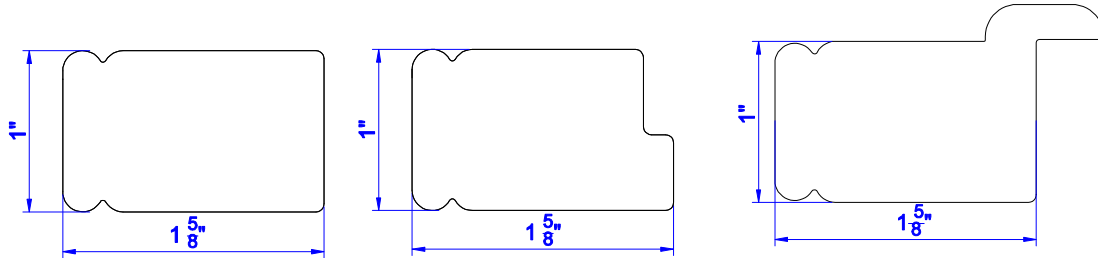
Solid Colors	Louvers		
001 Pure White	Elliptical		
003 Silk White			
004 Bright White			
006 Pearl			
009 Creamy			
012 Crisp Linen			
030 Moondust			
046 Ice			
Stain Colors*			
108 Rustic Gray		2½"	
110 Limed White			
205 Goldenrod			
211 Cherry			
221 Black Walnut			
227 Red Oak			
229 Rich Walnut			
230 Old Teak			
231 Spring Rose			
232 Red Mahogany			
233 Dark Mahogany			
237 Wenge			
242 Auburn			
249 Acorn			
250 Sumatra			
Optimal™*			
Optimal™ safeguards your window treatments from accumulating airborne germs and disease-causing bacteria so that you have on less thing to worry about.			
** Custom sheen options available			



Colors available till June 30, 2013

Color Code	Color Name	Note
011	Cameo	Discontinue on June 30, 2013
013	Bisque	Discontinue on June 30, 2013
103	Maple Sugar	Discontinue on June 30, 2013
105	Hermitage Green	Discontinue on June 30, 2013
206	Pecan	Discontinue on June 30, 2013
214	Cocoa	Discontinue on June 30, 2013
222	Light Pine	Discontinue on June 30, 2013
224	Mellow Beech	Discontinue on June 30, 2013
226	Chestnut	Discontinue on June 30, 2013

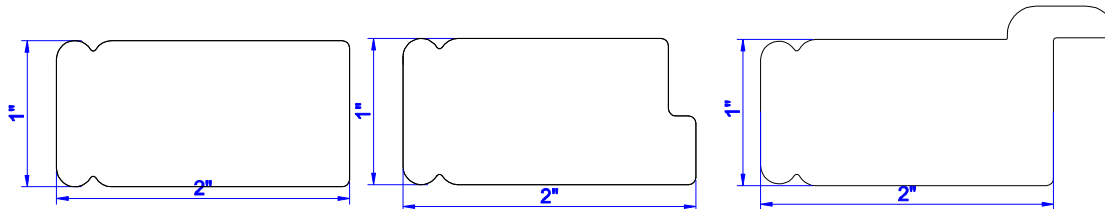
Stiles Options



1 5/8" Butt Stile

1 5/8" Rabbet Stile

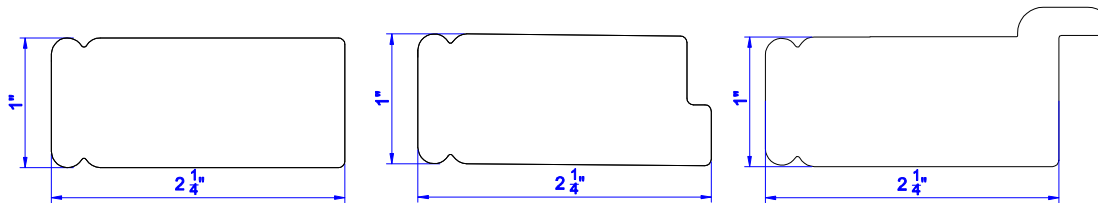
1 5/8" Astragal Stile



2" Butt Stile

2" Rabbet Stile

2" Astragal Stile



2 1/4" Butt Stile

2 1/4" Rabbet Stile

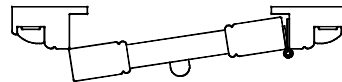
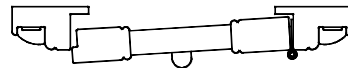
2 1/4" Astragal Stile

Stile between panel closure

Single panel

I) Panel width < 9"

- Rabbeted stile (Deco frame, L frame, Z frame and Hang strip beside panel)
 - 1 $\frac{5}{8}$ "
 - 2" (default)
- Butt stile only (Hang strip behind panel)
 - 1 $\frac{5}{8}$ "
 - 2" (default)



II) Panel width \geq 9"

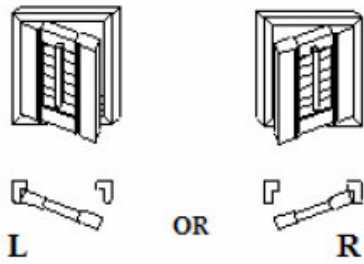
- Butt stile only
 - 1 $\frac{5}{8}$ " (Optional for panel width \leq 12")
 - 2" (default)

2 panels or more

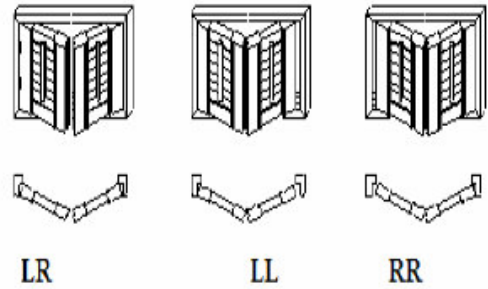
- Astragal stile
 - 1 $\frac{5}{8}$ " (Optional for panel width \leq 12")
 - 2" (default)
- Rabbet stile
 - 1 $\frac{5}{8}$ " (Optional for panel width \leq 12")
 - 2"

Panel Configurations

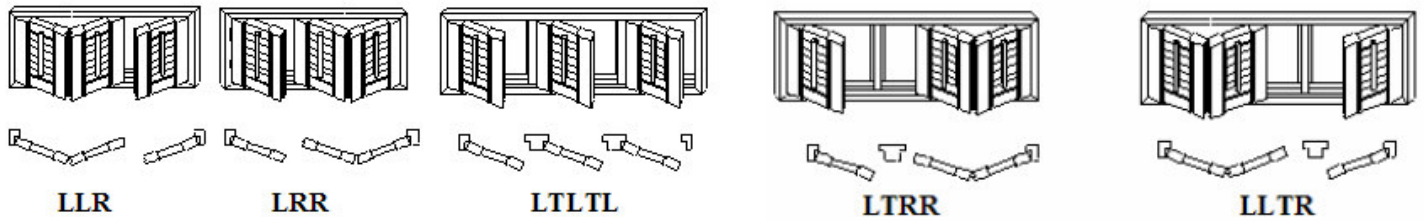
Single Panel



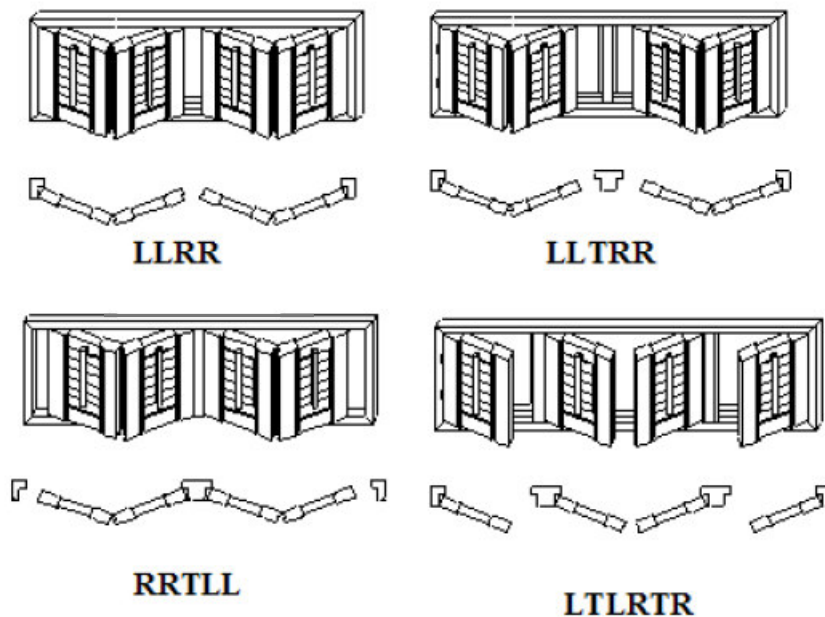
2 Panels



3 Panels

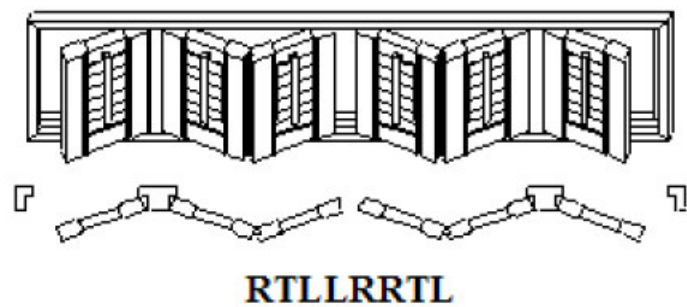
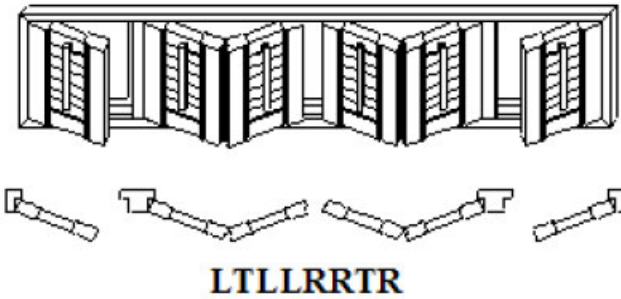
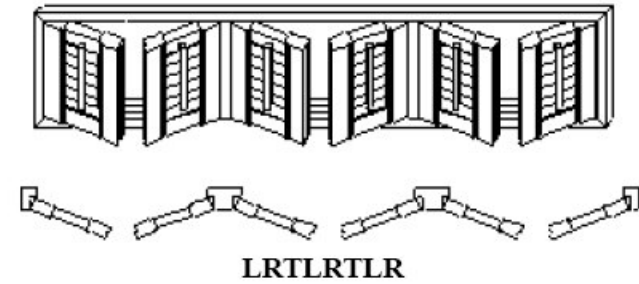


4 Panels



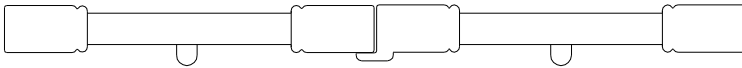
Panel Configurations (continued)

6 Panels

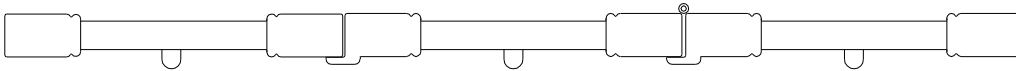


Panel Configurations – Astragal Stile

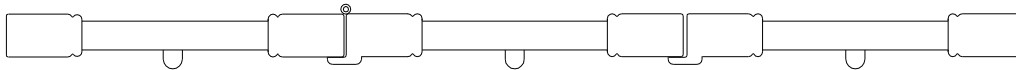
- 2 Panels – LR



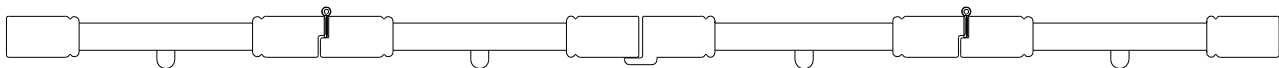
- 3 Panels - LRR



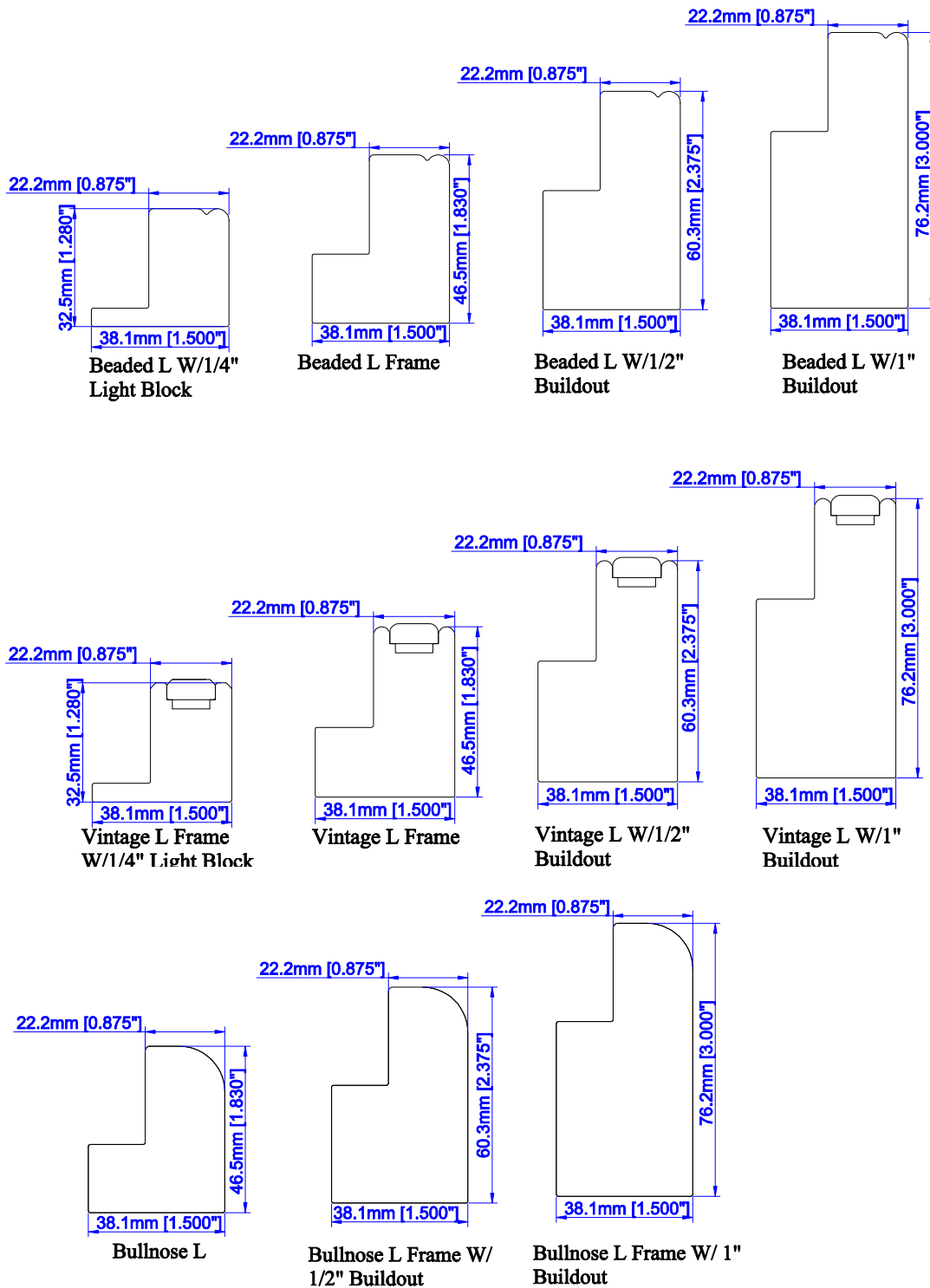
- 3 Panels – LLR



- 4 Panels - LLRR



Frame Styles

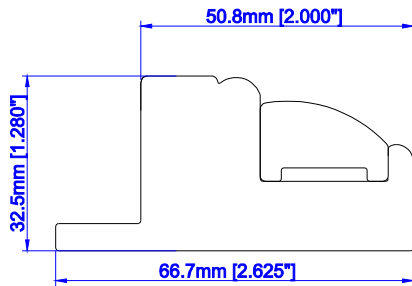


Also available

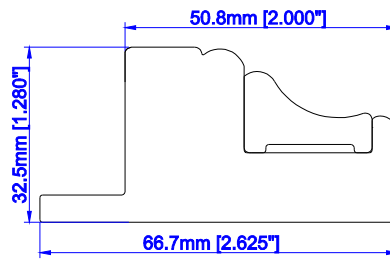
- Custom extensions* up to 2" for L frames

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

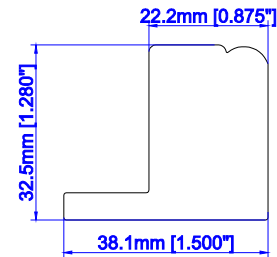
Frame Styles



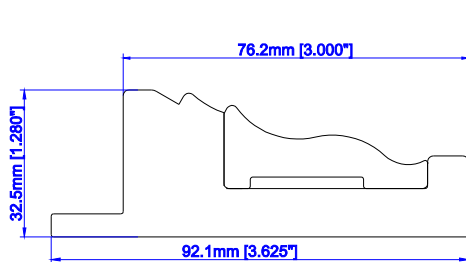
2" Camber Deco Frame



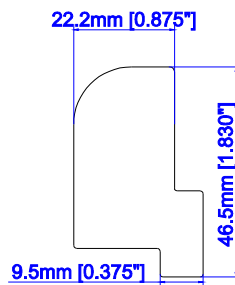
2" Classic Deco Frame



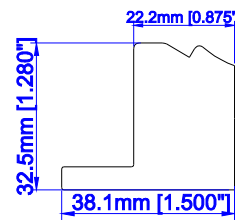
2" Deco Sill Plate



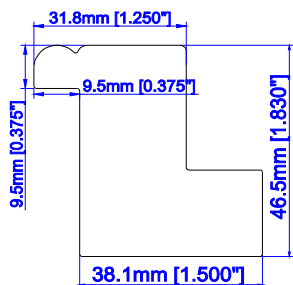
3" Ridge Deco Frame



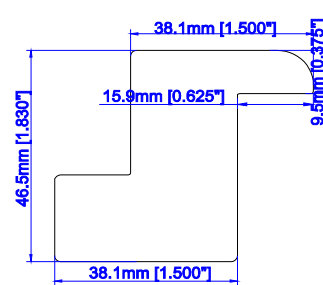
Tilt Out Z Frame



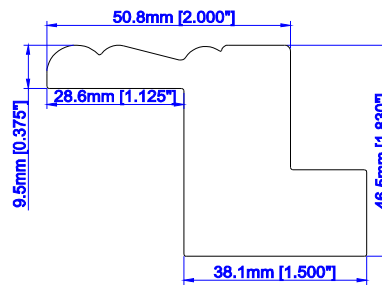
Ridge Deco Sill Plate



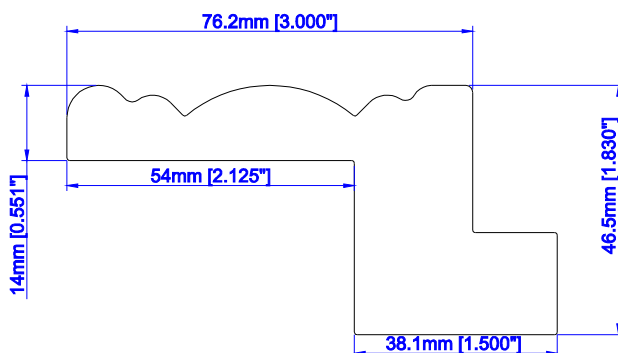
1 1/4" Beaded Z Frame



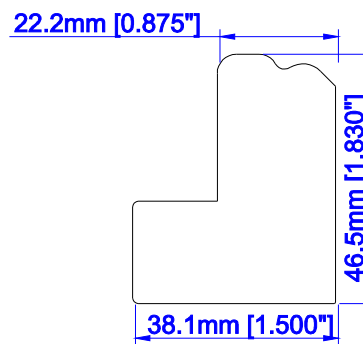
1 1/2" Bullnose Z Frame



2" Bel Air Z Frame



3" Crown Z Frame

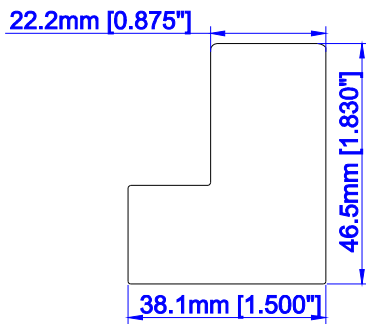


3" Crown Z Sill Plate

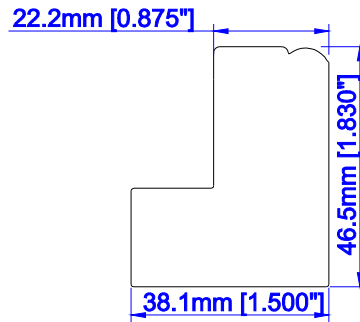
Also available

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

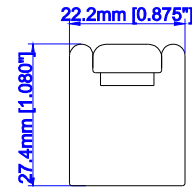
Frame Styles



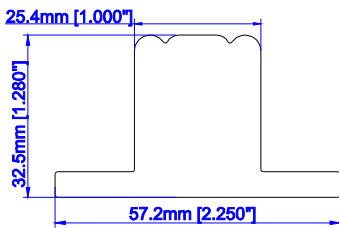
**1 1/2" Bullnose Z
1 1/4" Beaded Z
Sill Plate**



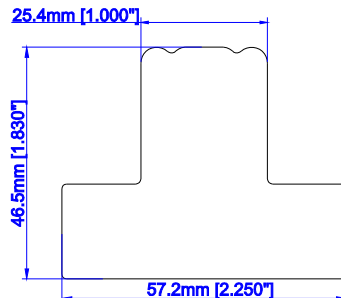
2" Bel Air Z Sill Plate



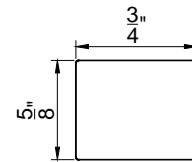
Vintage Hang Strip



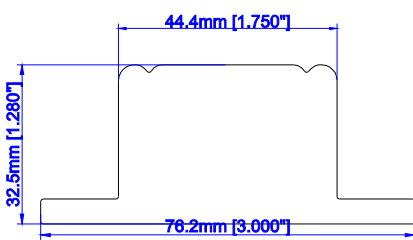
**1" T Post W/ 1/4" Light Block
(Deco)**



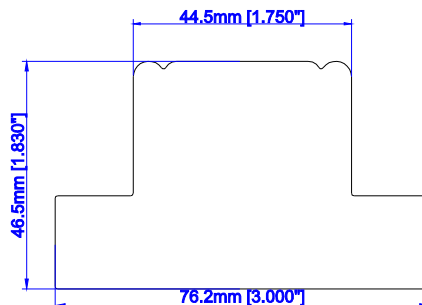
**1" T Post W/ 3/4" Light Block
(L/Z/HS)**



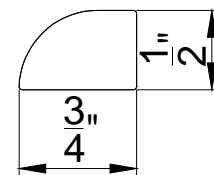
Light Block



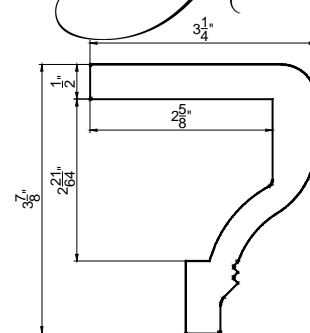
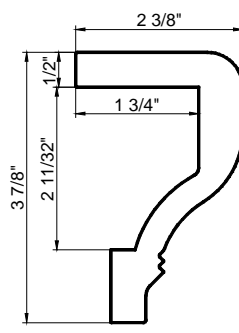
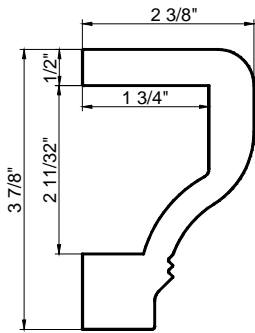
**1 3/4" T Post W/ 1/4" Light
Block (Deco)**



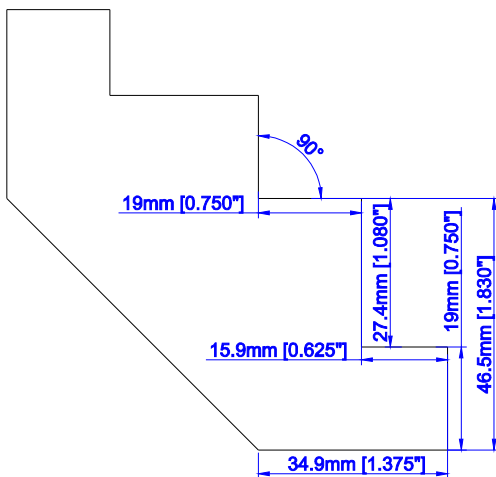
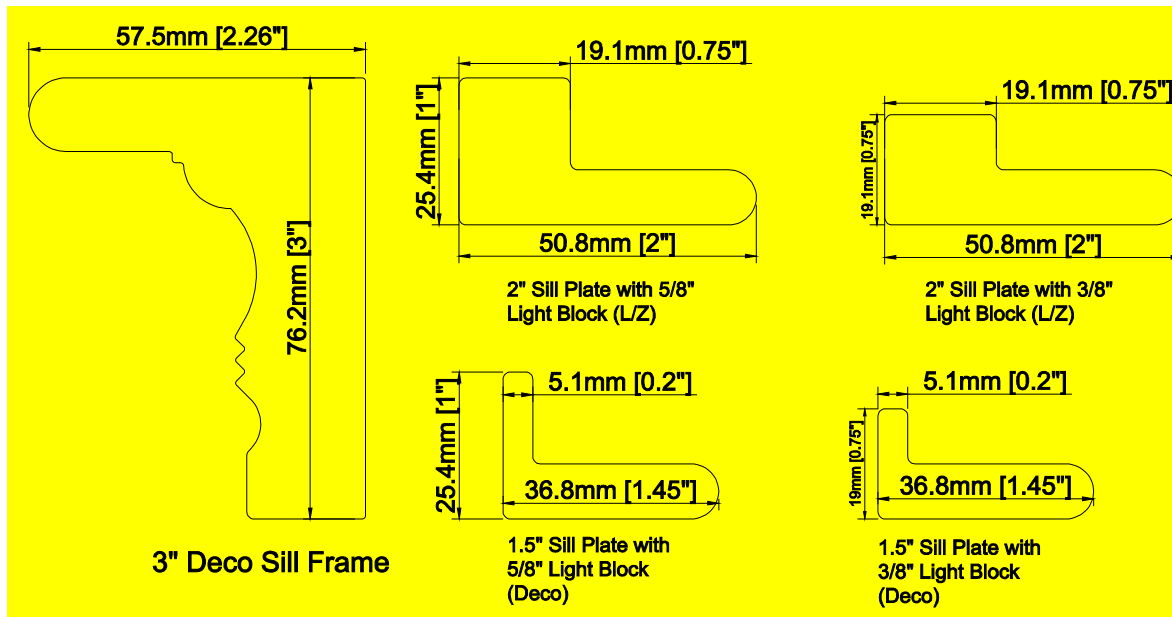
**1 3/4" T Post W/ 3/4" Light
Block (L/Z/HS)**



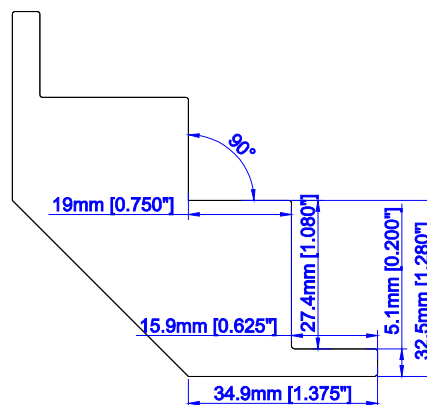
Scribe Trim



Curved Designer Sill Cap (L) Curved Designer Sill Cap (D/HS) Curved Designer Sill Cap (Z)

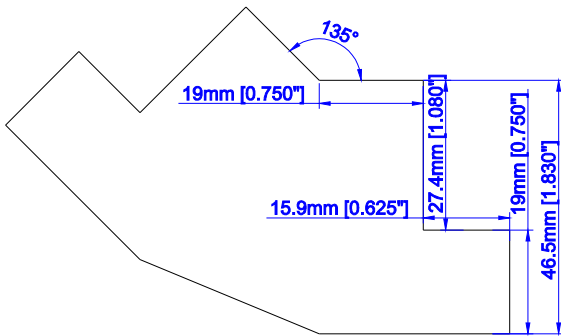


Corner Post W/ 3/4" Light Block (L/Z/HS)

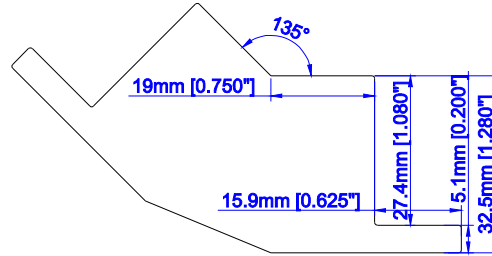


Corner Post W/ 1/4" Light Block (Deco)

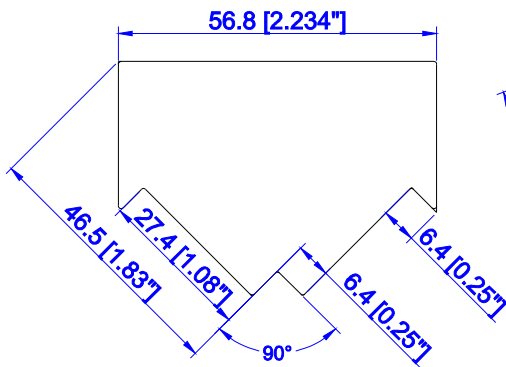
Frame Styles



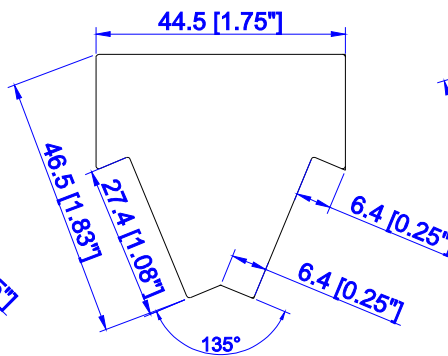
Bay Post W/ 3/4"
Light Block (L/Z/HS)



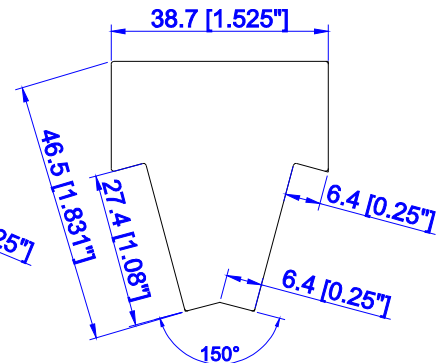
Bay Post W/ 1/4"
Light Block (Deco)



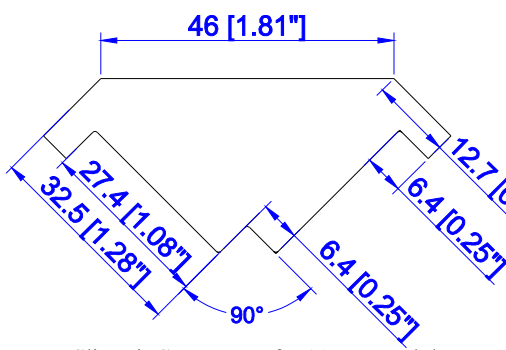
Slim Fit Corner Post for 90 Degree (L/Z/HS)



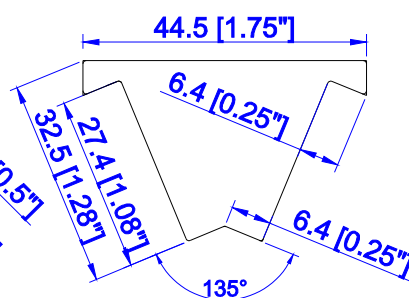
Slim Fit Bay Post for 135 Degree (L/Z/HS)



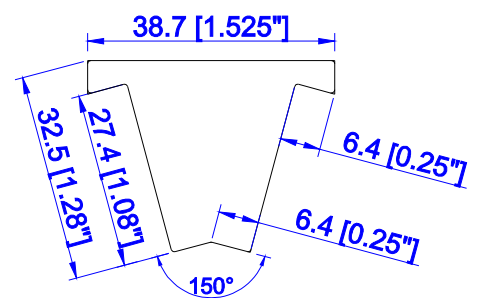
Slim Fit Bay Post for 150 Degree (L/Z/HS)



Slim Fit Corner Post for 90 Degree (D)

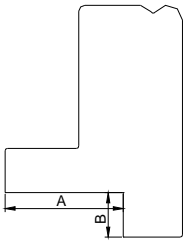


Slim Fit Bay Post for 135 Degree (D)



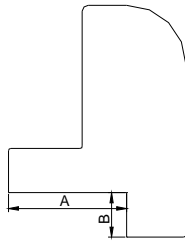
Slim Fit Bay Post for 150 Degree (D)

Frame Styles



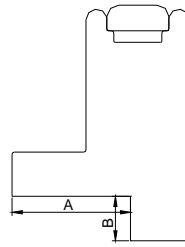
Notch Out

Beaded L Frame (A) *



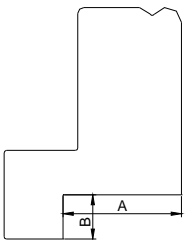
Notch Out

Bullnose L Frame (A) *



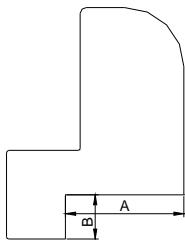
Notch Out

Vintage L Frame (A) *



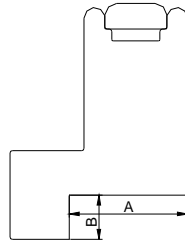
Notch Out

Beaded L Frame (B) *



Notch Out

Bullnose L Frame (B) *



Notch Out

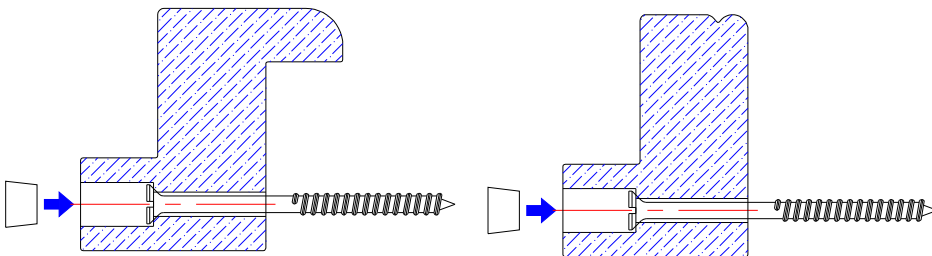
Vintage L Frame (B) *

Also available

- Custom depth* up to 2" / width* up to 7½" for T Posts
- Custom angle bay posts*

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

Pre-drill L or Z frames:





General Product Specifications

<u>Description</u>	<u>Minimum</u>	<u>Maximum</u>
Single Panel Width (Regular)	6"	42" for 3.5"&4.5" louvers, 36" for other louver type
Single Panel Width (Bifold)	6"	26"
Single Panel Width (for Bypass Panel With Center Stile)	6"	50"
Single Panel Height	10"	133"
Shutter Width (Without T Post)	N/A	4x single panel width (bifold) + frame
Shutter Width (With T Post)	N/A	Unlimited (frame* pieces exceeding 142" will be spliced)
Shutter Height	N/A	133" + frame

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

Shutters without bottom supports

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

All Normandy panel configurations:

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

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".
- 84" panel height limit without divider rail is for Wood French Door installed with button catches & Wood Bypass and bi-fold track shutters.

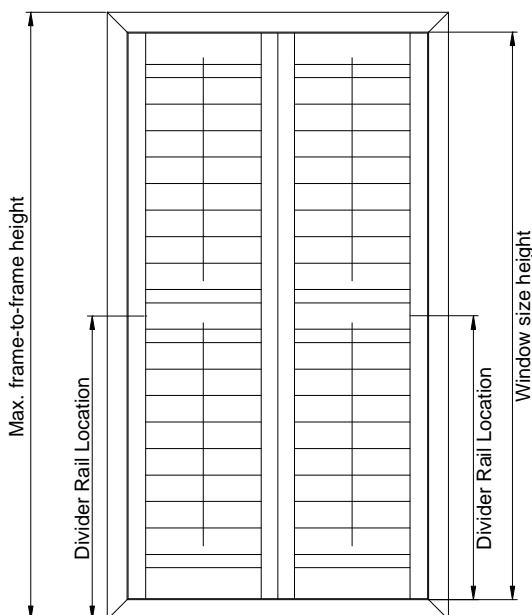
Specifications

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

Measurements:

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

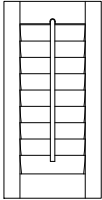
When placing the order, please clearly specify if the divider rail position needs to line up with that of other shutter divider rails in the same room. Please also refer to the table below for the allowable deviation details.



Divider rail allowable deviations

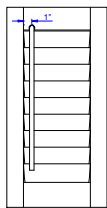
Louver Size	Allowable ± Deviation
2½"	1"
3½"	1½"
4½"	2"

Tilt Rod



**Standard Tilt Rod
Default Location**

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

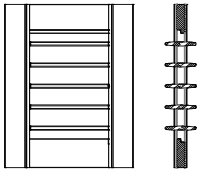


**Offset Tilt Rod*
Default Location**

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:

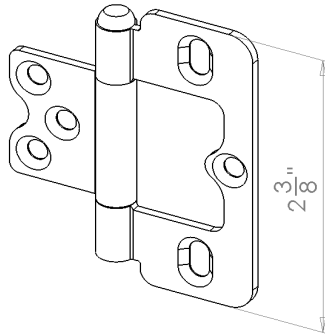
Louver Size	Maximum Possible Louvers	Height Range
2 ¹ / ₂ "	24	54 3/4" – 57 1/4"
3 ¹ / ₂ "	16	54 3/4" – 58"
4 ¹ / ₂ "	12	54 3/4" – 60"

- 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.

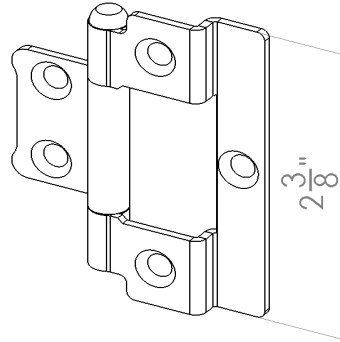
Hardware

Hinges

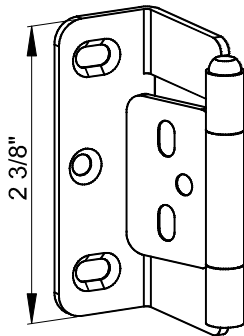
Self-Mortise Hinge



Bi-fold Hinge



L Hinge



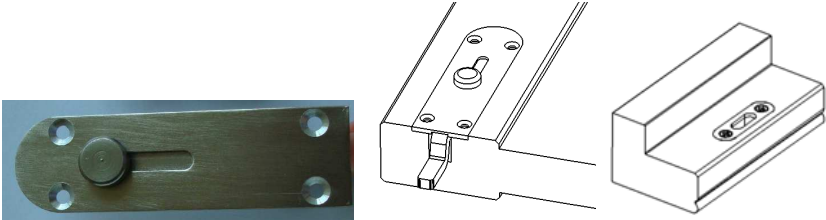
Hinges are available in :
Silk White, Bisque, Pearl, Bright Brass, Antique Brass, Black, Nickel plated and Stainless Steel*

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

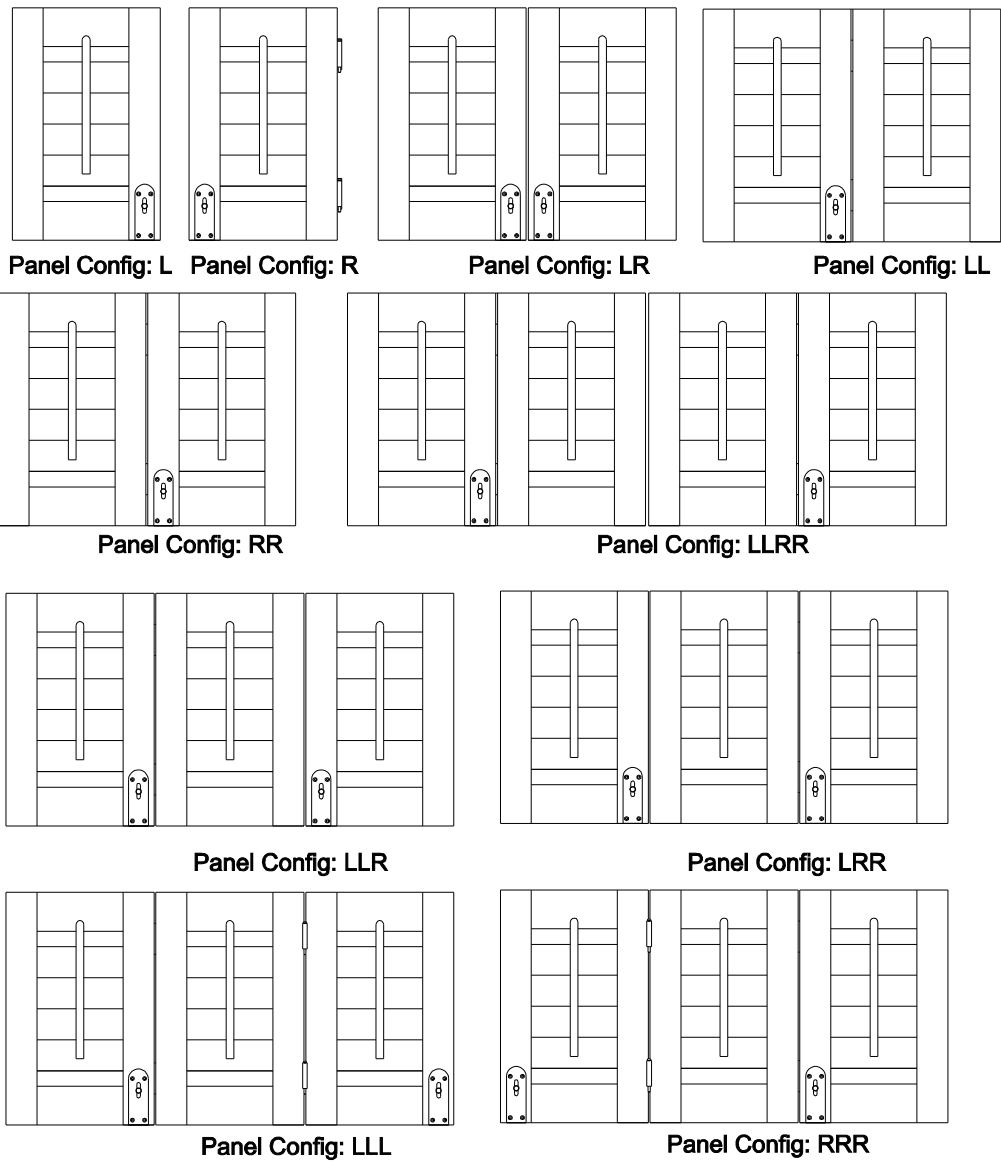
Panel Lock: (not available for 1.625" Stile)

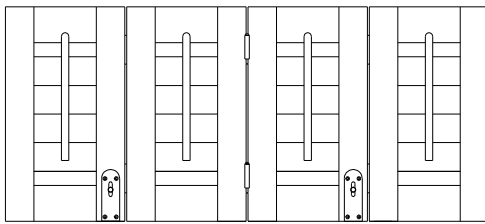
Available Material: All

Color: Brush Nickel-Plated

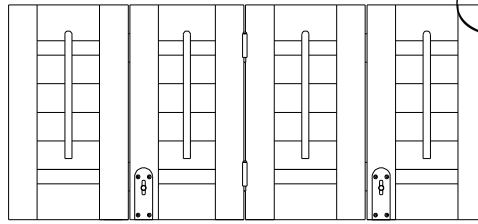


Position: (Only available on Bottom for Track Shutters with Bottom Track; For Regular, available on Top/Bottom/both Top and Bottom)

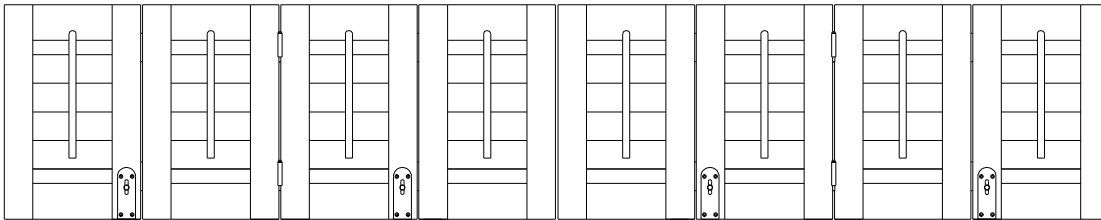




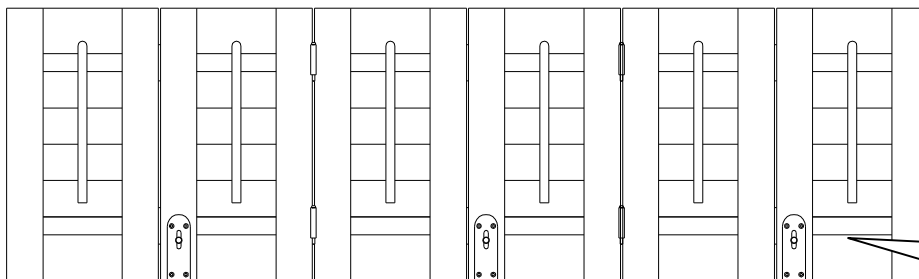
Panel Config: LLLL



Panel Config: RRRR



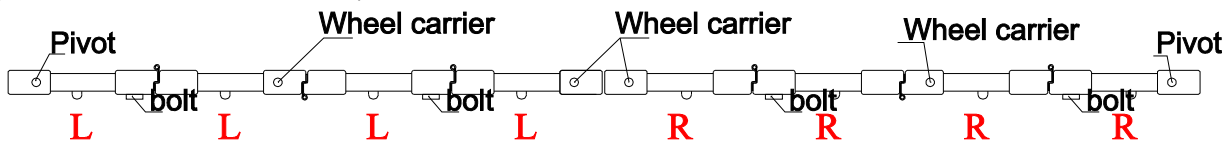
Panel Config: LLLLRRRR



Panel Config: FFFFFFF(R)

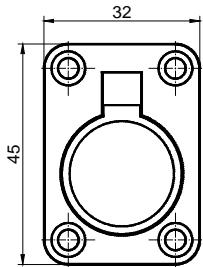
Default:
Floating panels
stacked to Right

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)

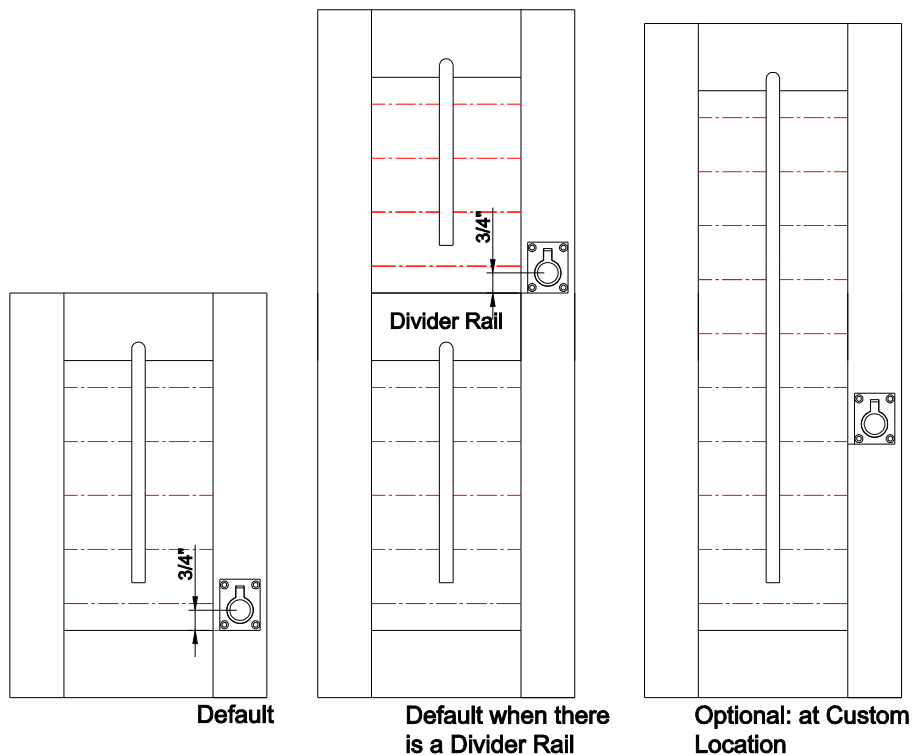


Please note the ring pull finish will match with the hinge finish.

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.

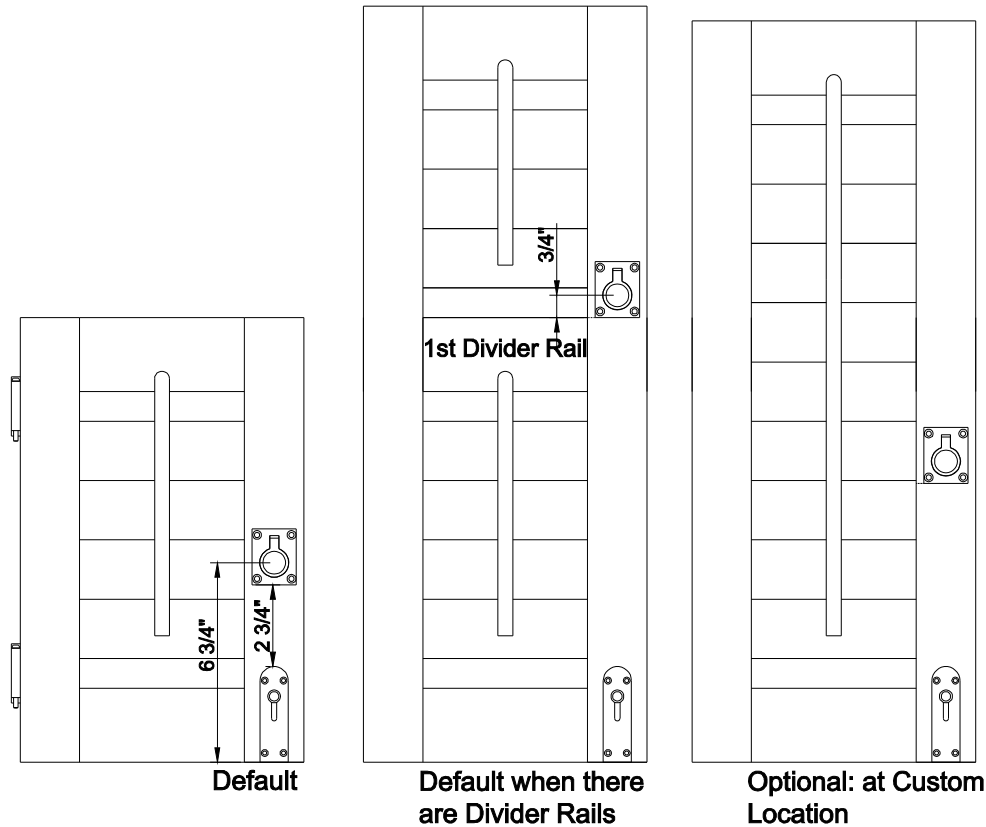


Position:

- 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.

Invisible Hinge

Available Material: ALL Except Woodbury		
Frame Options	Hinge	Notes
2" Camber Deco Frame	Y	/
2" Classic Deco Frame	Y	/
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	/
Bullnose L	N	/
Bullnose L Frame w/ 1/2" Buildout	N	/
Bullnose L Frame w/ 1" Buildout	N	/
Tilt out Z Frame	N	/
1.25" Beaded Z Frame	Y	/
1.5" Bullnose Z Frame	Y	/
2" Bel Air Z Frame	Y	/
3" Crown Z Frame	N	/
7/8" Vintage Hang Strip (31mm) (27mm for 1" stile)	N	/
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 3/4" T-Post w/1/4" Light Block(for Deco)	Y	available with hinge on BOTH side, for example, RTL.
1 3/4" T-Post w/3/4" Light Block(for L/Z/HS)	Y	

Corner Post w/1/4" Light Block(for Deco)	Y	/
Corner Post w/3/4" Light Block(for L/Z/HS)	Y	/
Bay Post w/1/4" Light Block(for Deco)	Y	/
Bay Post w/3/4" Light Block(for L/Z/HS)	Y	/
Invisible Hinge Qty		
Panel Height (H)	Hinge Qty	
H<=48"	2	
48"<H<=78"	3	
78"<H<=96"	4	
96"<H<=120"	5	
H>120"	6	

Available Stile: Butt and Astragal

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.

If bifold/multi-fold panels are packaged together, the hinges are installed before shipping, or the hinges & screws are packed into the hardware box.

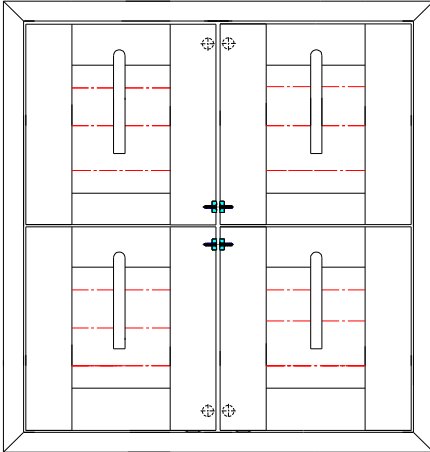
Side Magnet: Only available for Butt and Astragal stile



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

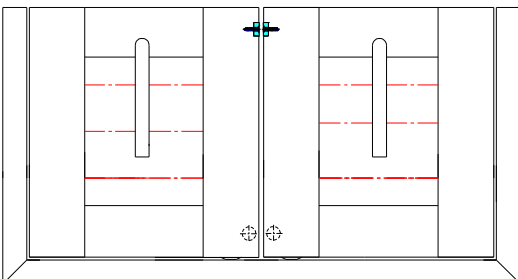
1. Double Hung shutter but without horizontal T post:

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



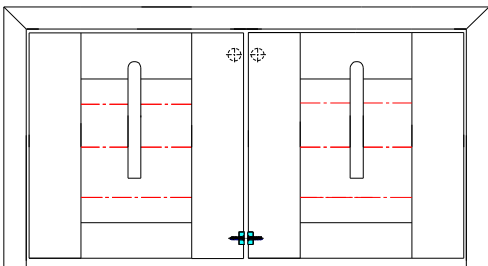
2. Café Shutter

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™

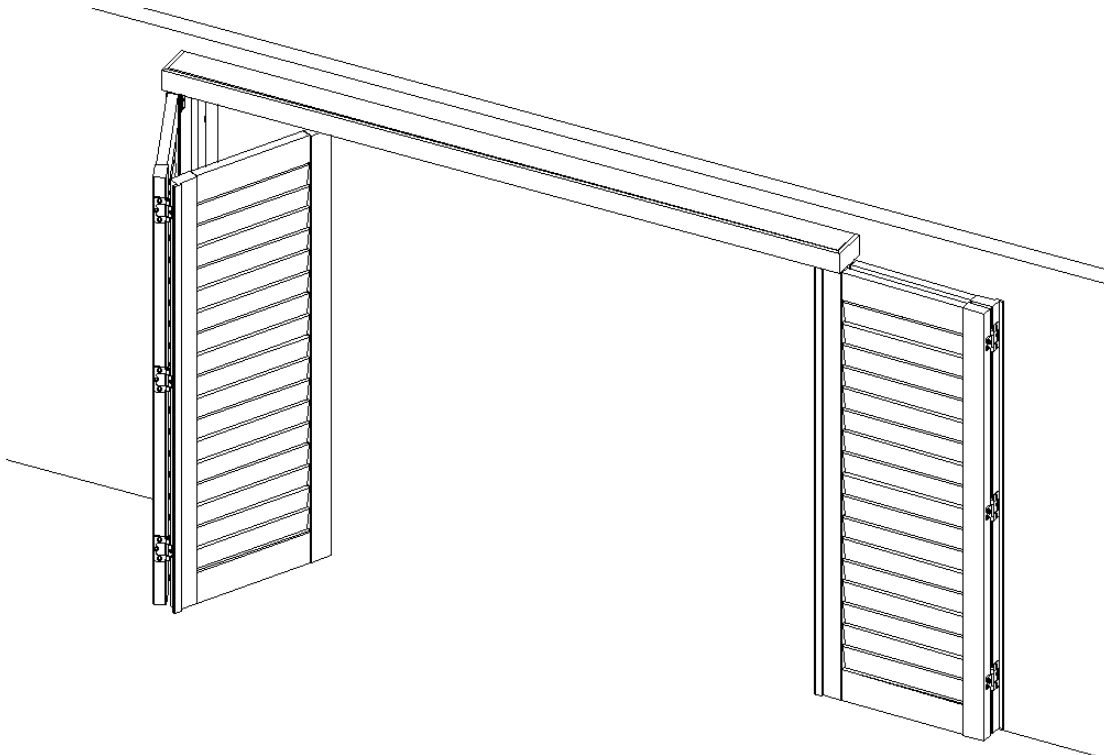
Guidelines and Specs:

<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	26"	26"
Single-Panel Width (LLL/RRR)	6"	N/A	20"	20"
Single-Panel Height	10"	N/A	133"	133"

Outside Mount

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

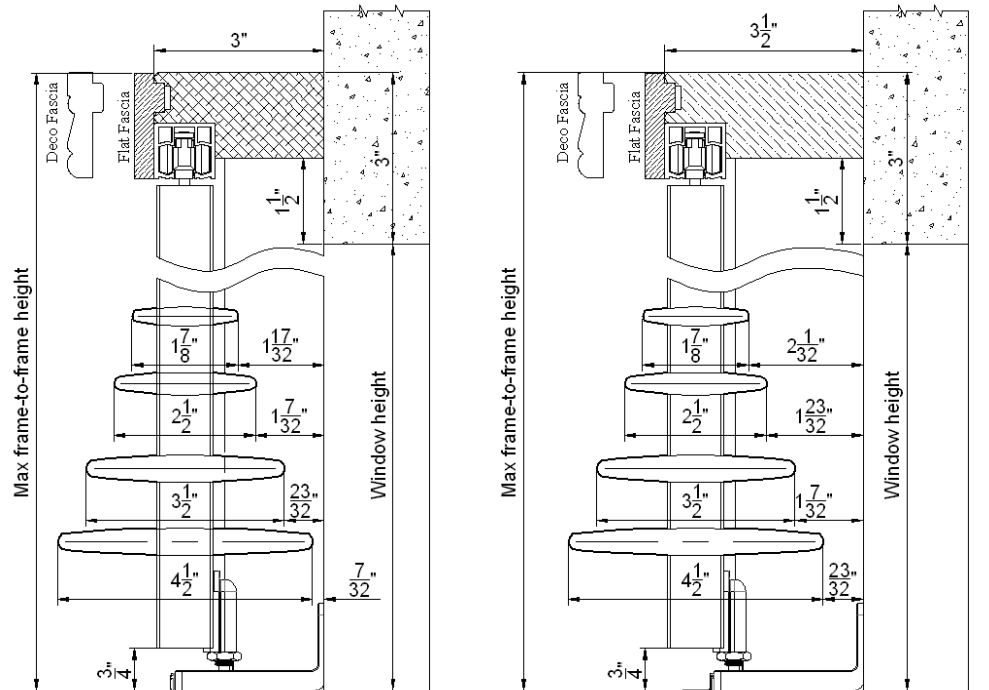
Max frame-to-frame height: window height + 3



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

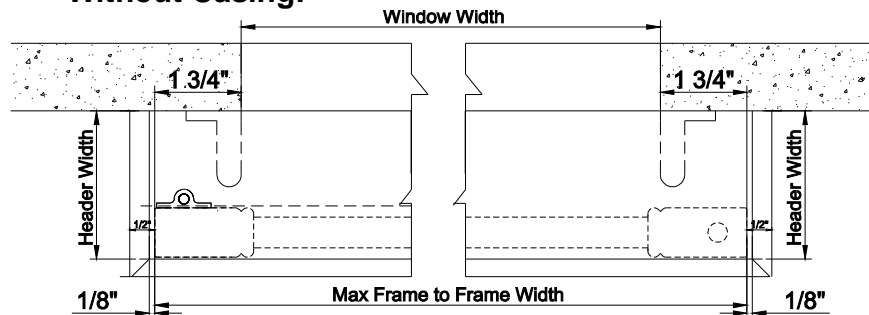
Mounting Options: Outside Mount only

Side View

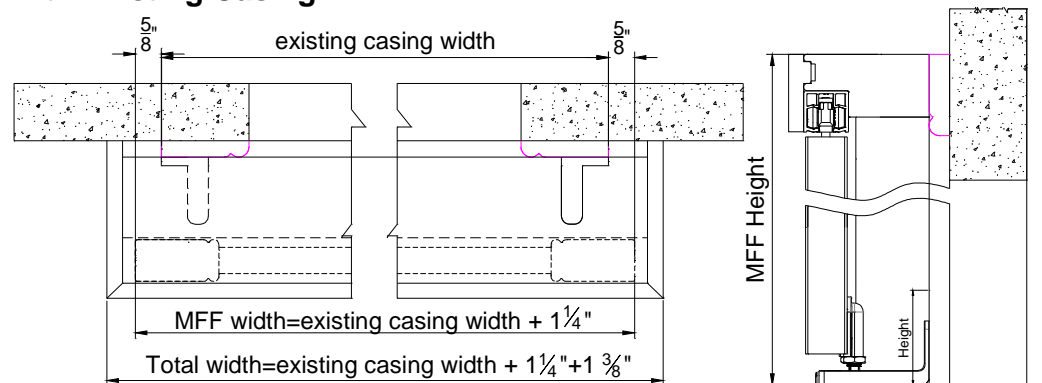


Top View

Without Casing:



With Existing Casing:



Note:

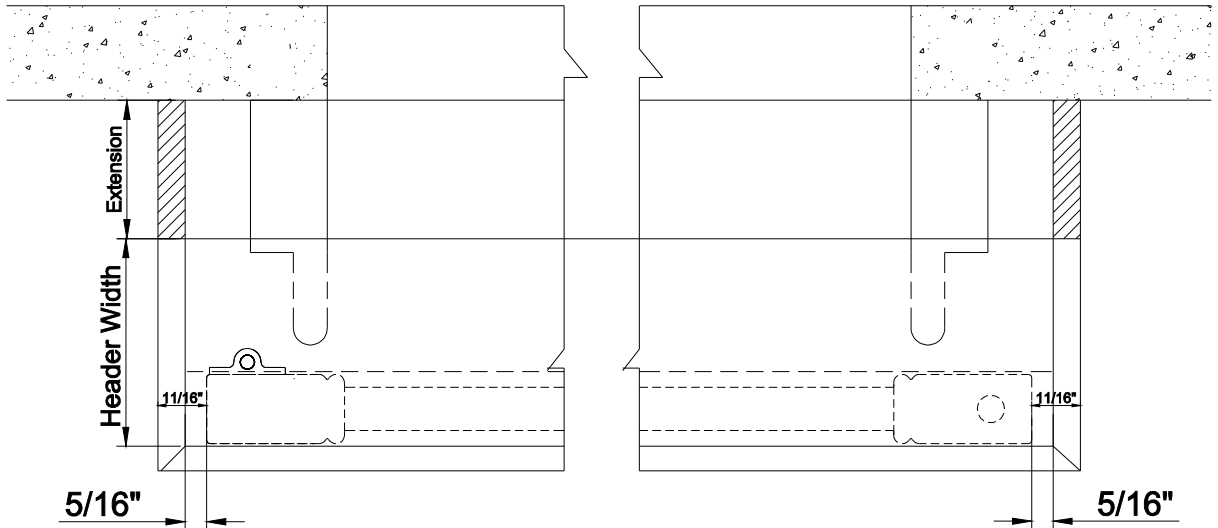
◇ Fascia return will protrude the panel about 1/2" for each side.

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

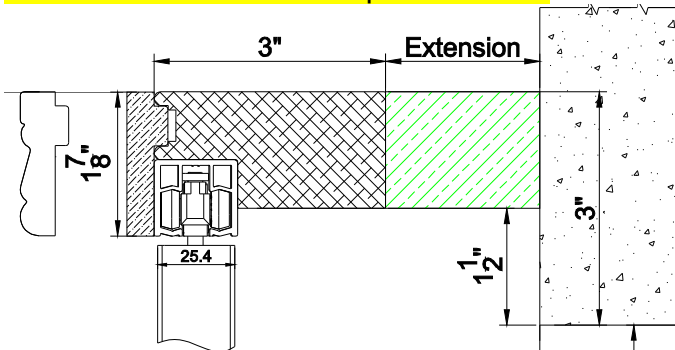
◇ Header, light blocks, and bottom pivot bracket(s) must be installed on a flat surface.

Normandy® Shutters

- ✧ 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.

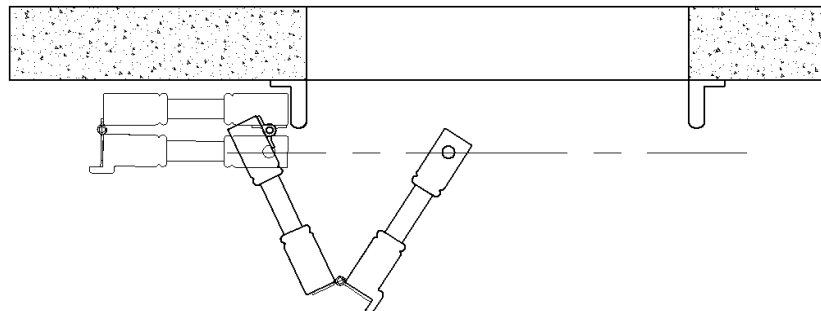


- ✧ The extension will be pre-attached.

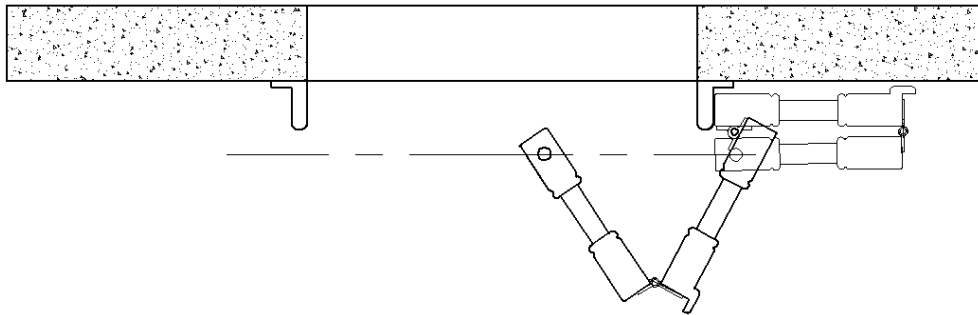


Panel Configuration : Only 2", 2 1/4" astragal and butt stile is available. Center and Rabbet stile is not available.

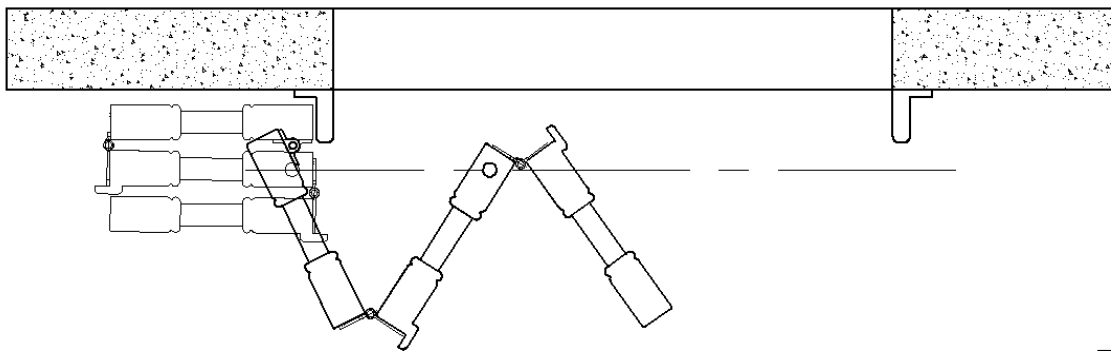
LL



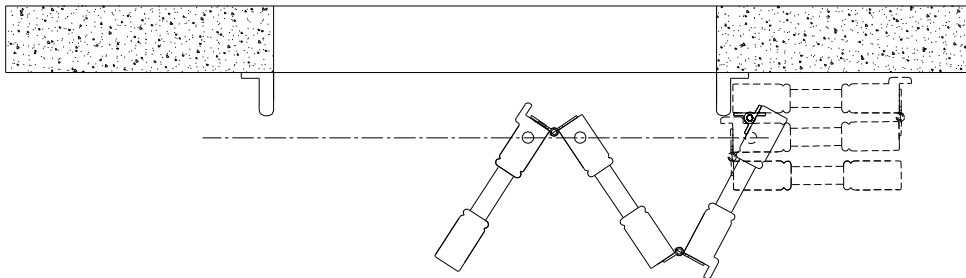
RR



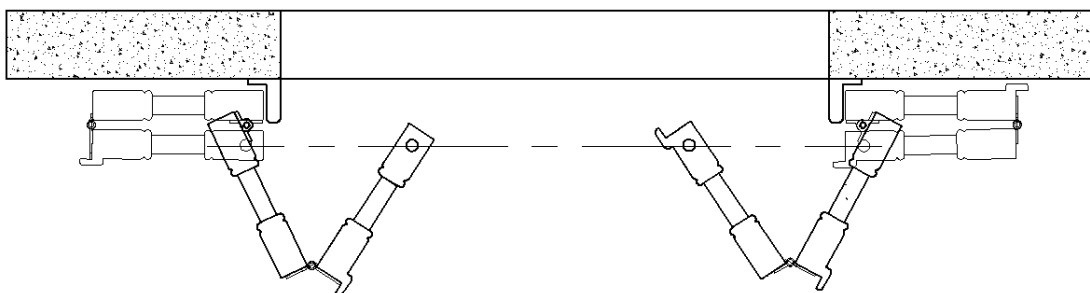
LLL (Wood only)



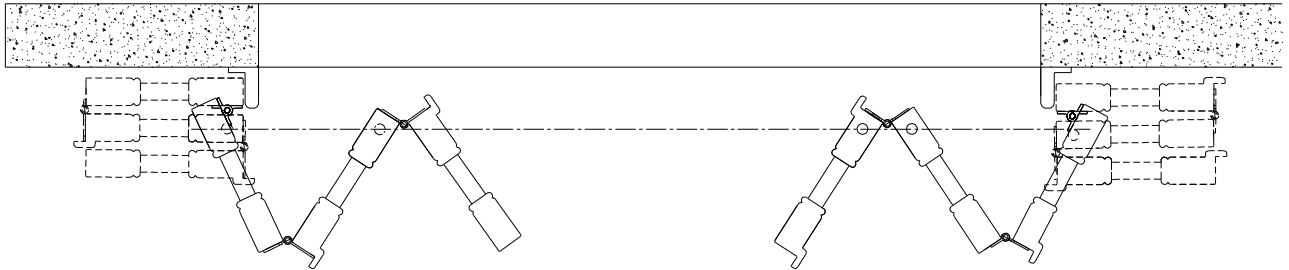
RRR (Wood only)



LLRR:



LLRRR (Wood only)



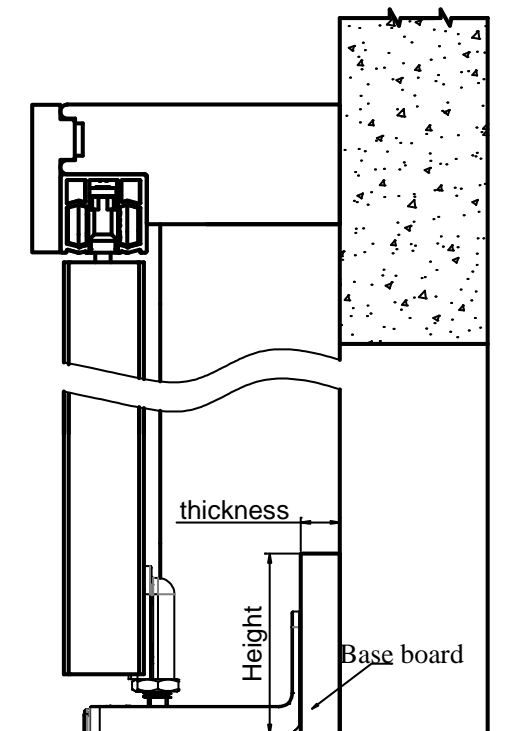
Notes:

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 $\frac{5}{8}$ ", 3 $\frac{1}{2}$ " header can be used.
2. If base board thickness is over $\frac{5}{8}$ ", it is suggest using the 3" header with build out. And the build out thickness=base board thickness- $\frac{1}{8}$ ".

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 1/4"	1 7/8"	2 1/2" ; 3 1/2" ; 4 1/2"
Single-Panel Width (Bi-fold Track)	6"	N/A	26"	26"
Single-Panel Width (Multifold track up to 4 panels)	6"	N/A	20"	20"
Single-Panel Height	10"	N/A	133"	133"

Outside Mount

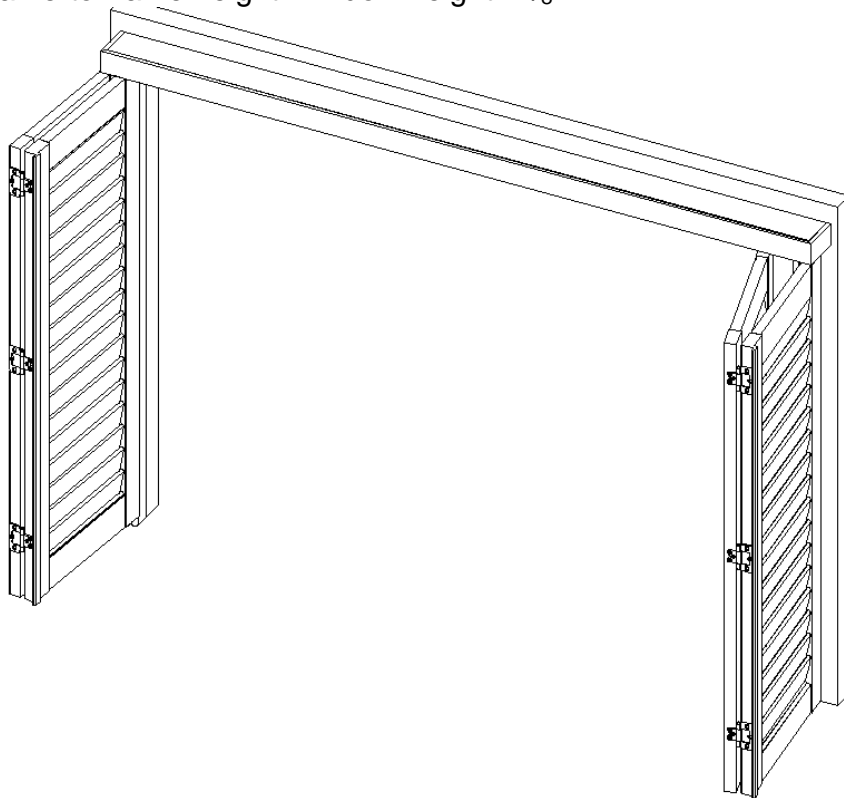
Max frame-to-frame width: window width + 3 1/2"

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

Inside Mount & Semi-Inside Mount

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

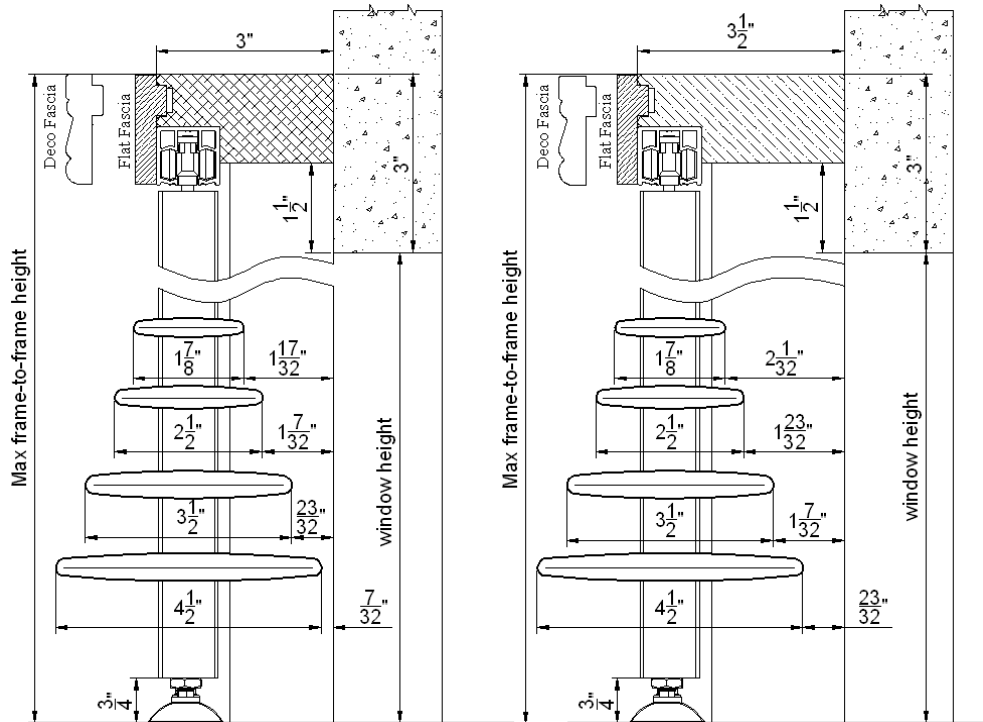
Max frame-to-frame height: window height - 1/8"



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

Mounting Options: Outside Mount

Side View

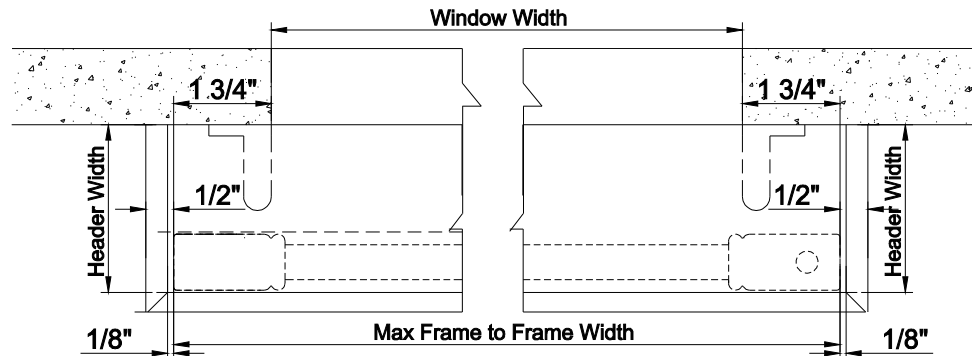


Top View

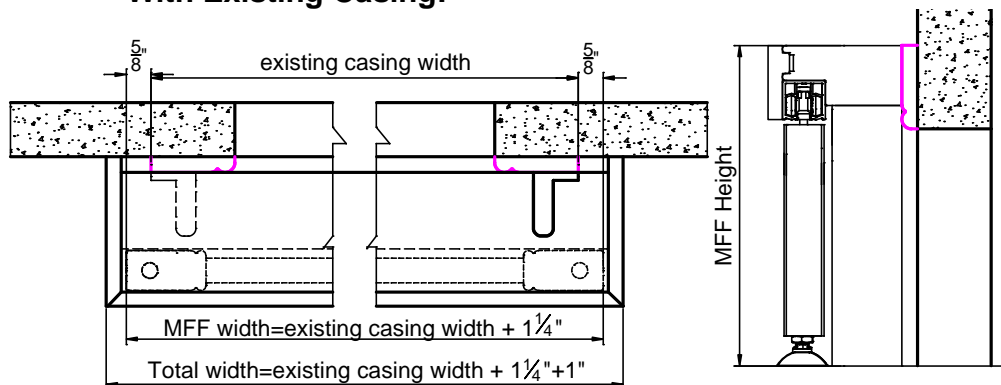
Without Casing:

Note:

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



With Existing Casing:

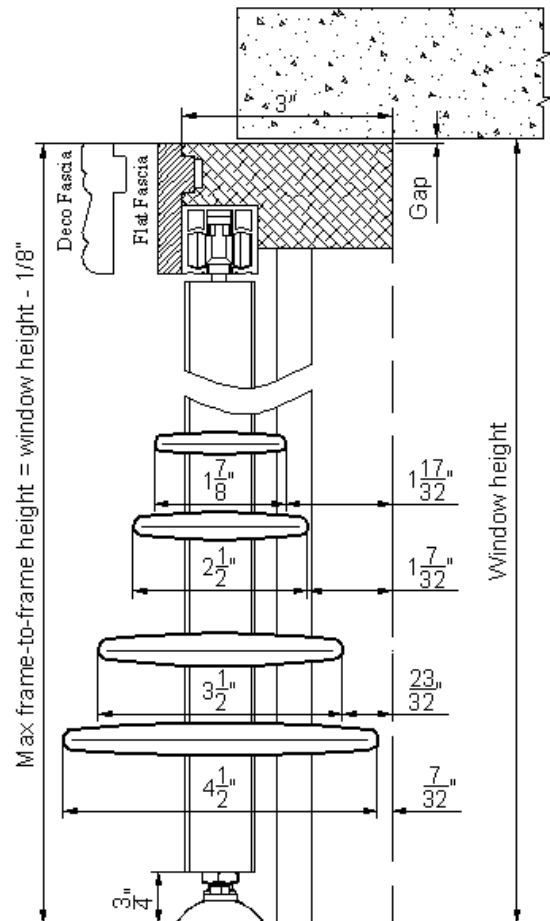
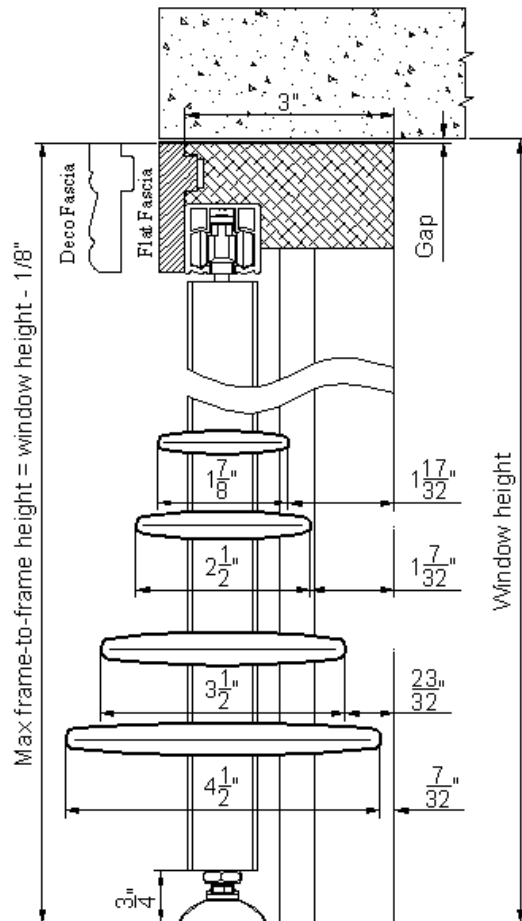


Inside Mount

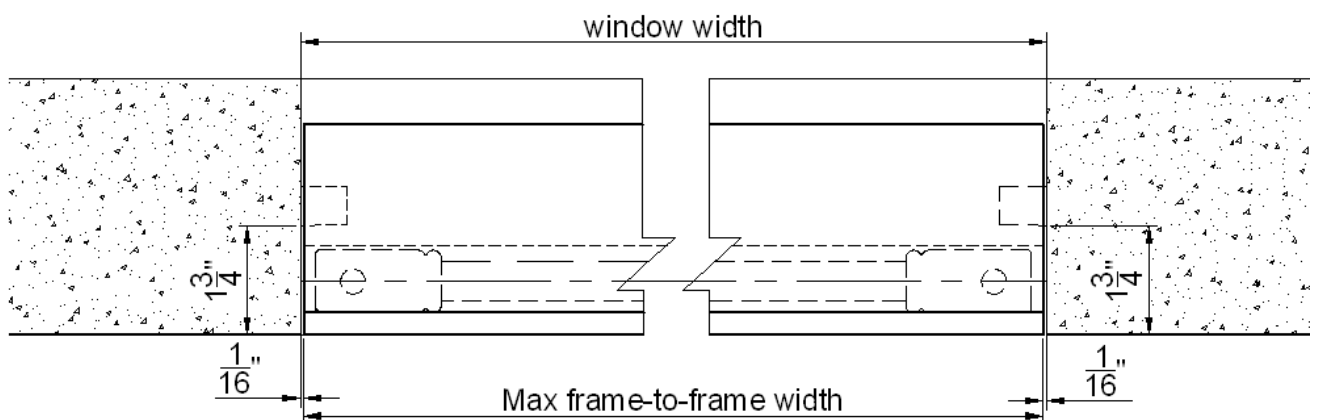
Side View

Inside Mount

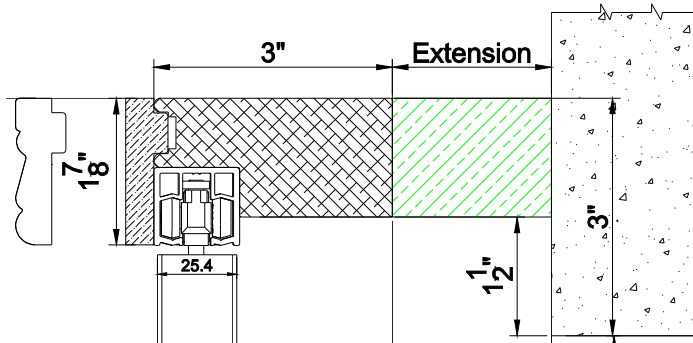
Semi-Inside Mount



Top View

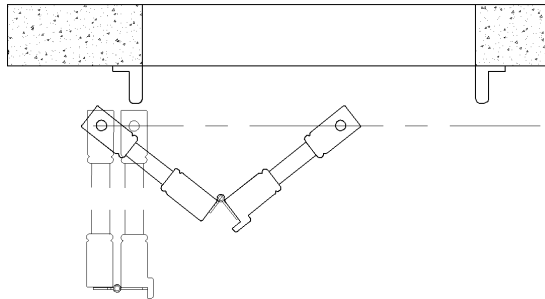


- ✧ Header Extension: Optional.
- ✧ Custom extension up to 2" for Header
- ✧ The extension will be supplied loose with installation screws.

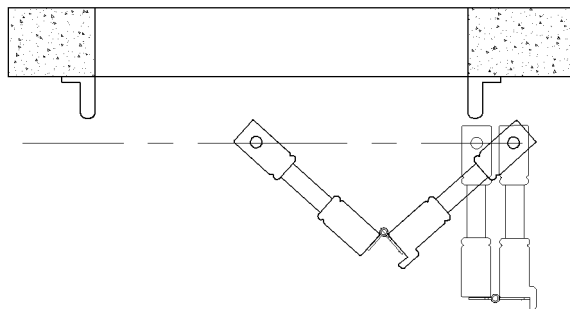


Panel Configuration : Only 2", 2 1/4" astragal and butt stile is available. Center stile and Rabbet is not available.

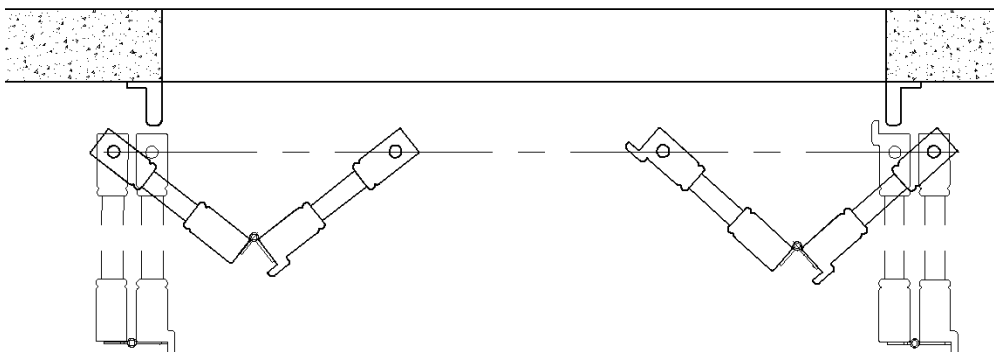
LL



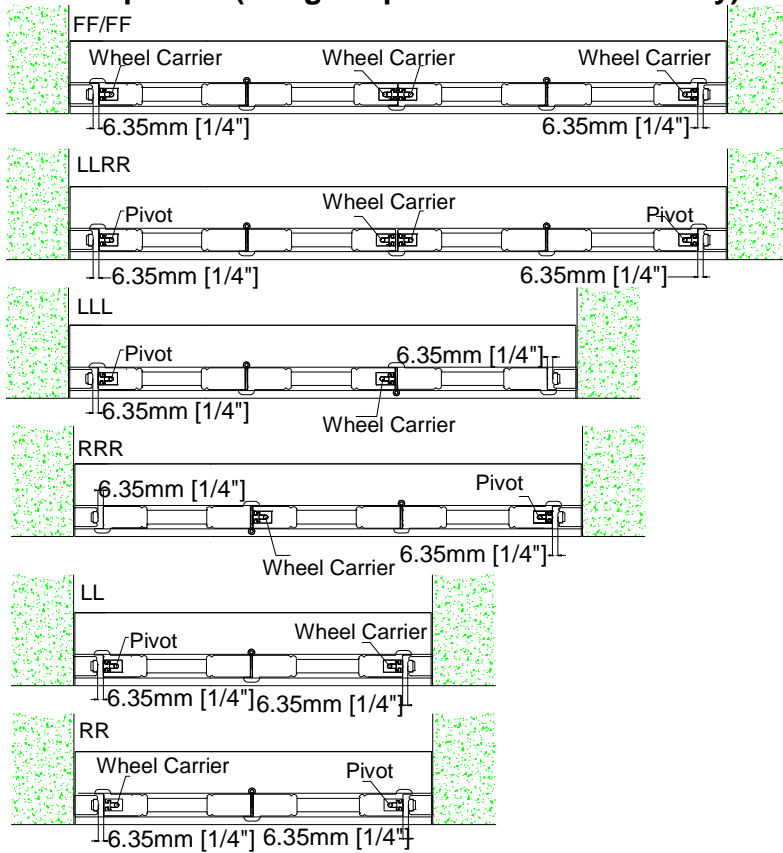
RR



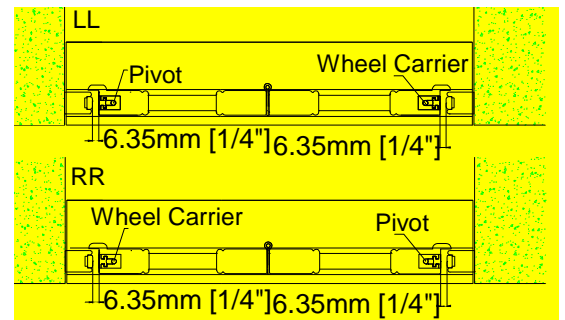
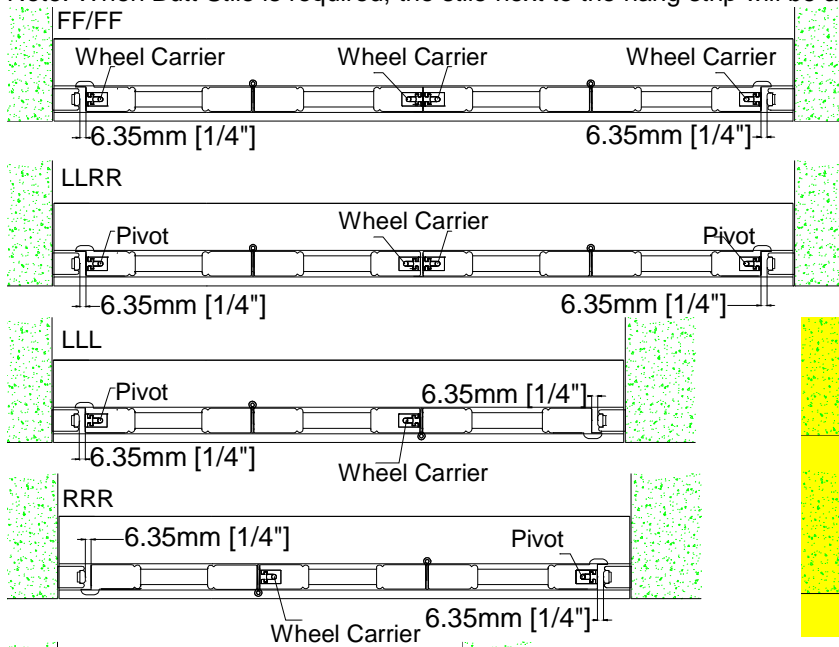
LLRR:



Optional (Hang Strip for Inside Mount Only)

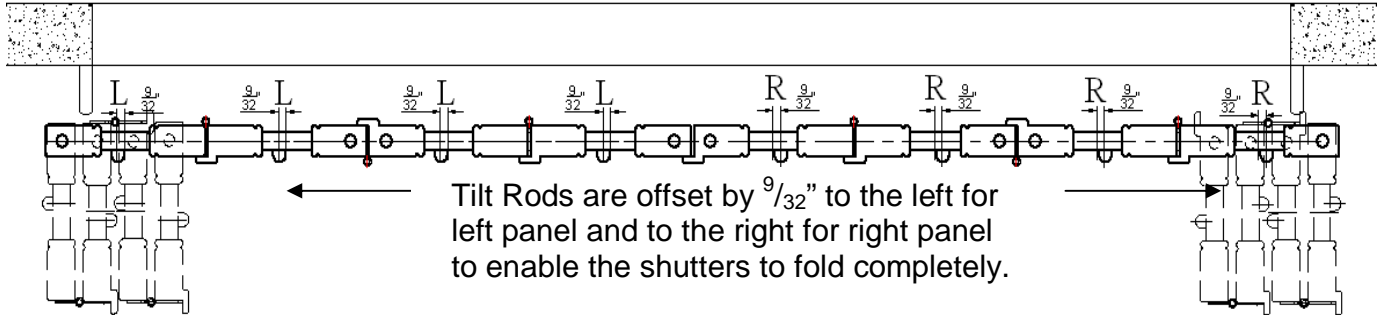


Note: When Butt Stile is required, the stile next to the hang strip will be astragal stile.

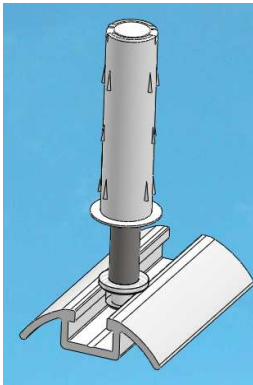
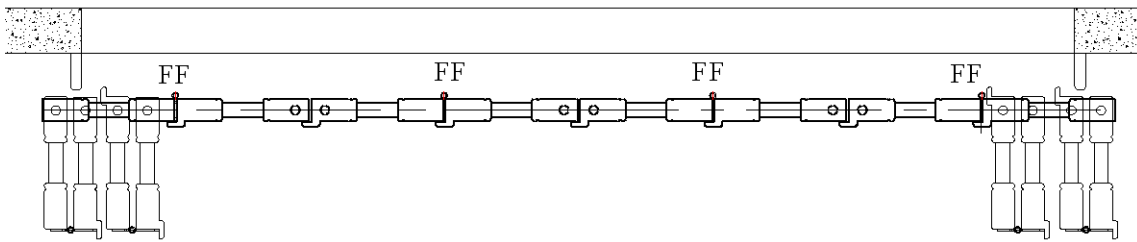


90° Multi-Fold Track Shutters (Wood only)

Maximum single panel width for multi-fold is 20"
Panel Configuration: LLLL, RRRR, or LLLRRRR

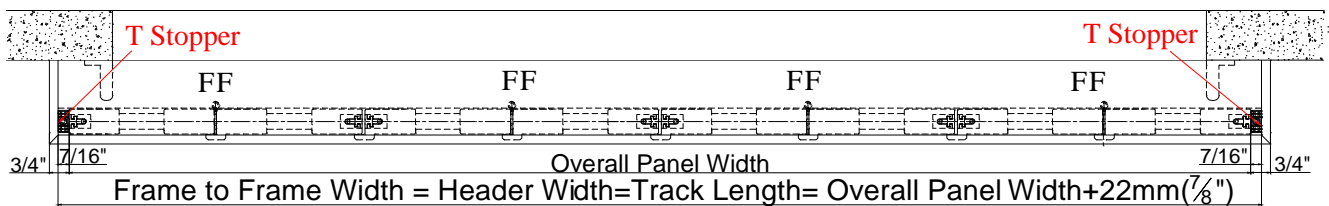


90° Floating Panels



- 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 $\frac{3}{4}$ " for each side.



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.

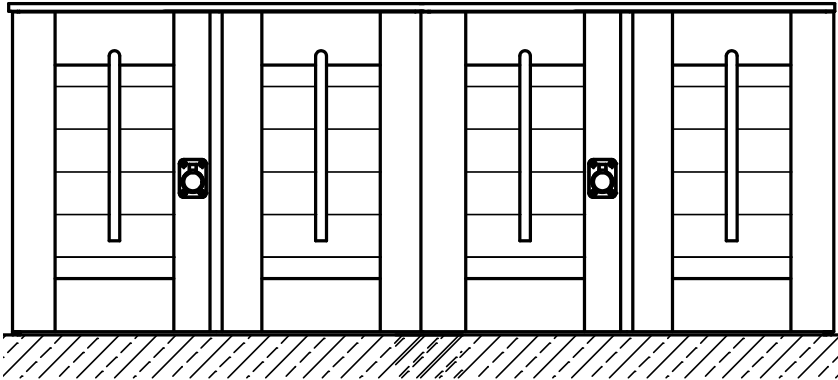
Ring Pull: The ring pull will be provided as default for both 90⁰ and 180⁰ Bifold Track Shutters. Customer need specify ring pull location on the order form. Ring pull location is measured from the floor to center of the ring pull in height direction.

Ring pull color will match the hinge color.

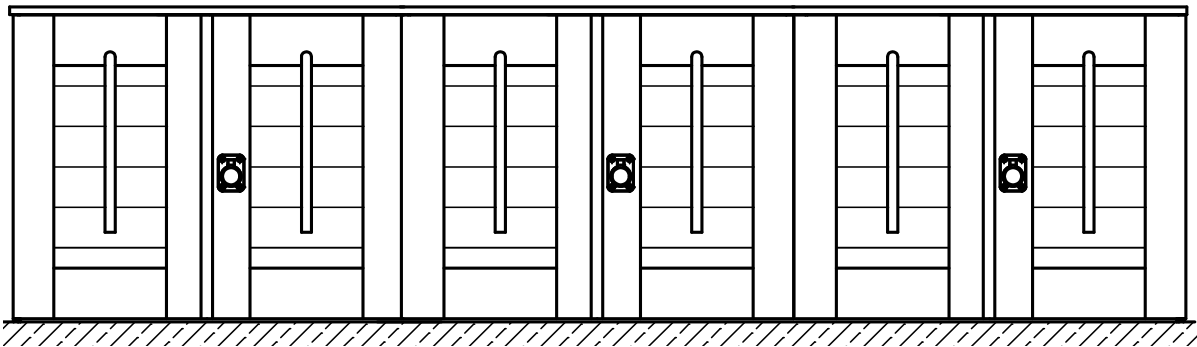
Please refer to below drawing of ring pull position for 180⁰ Bifold Track:



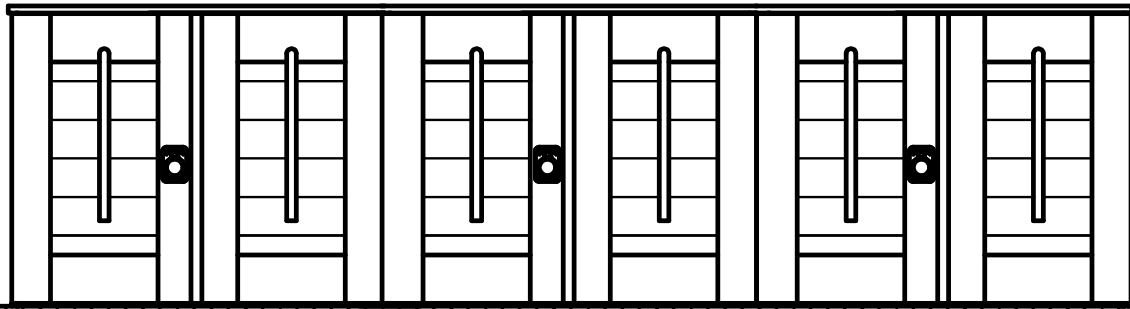
RRRR



LLLLL

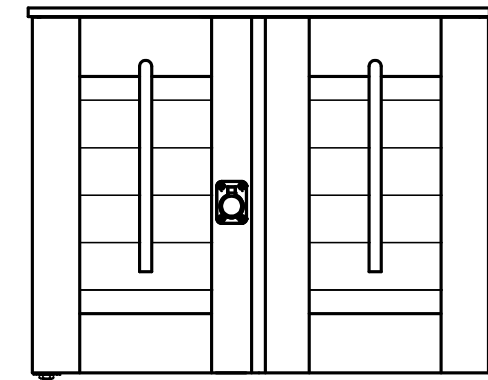


RRRRR

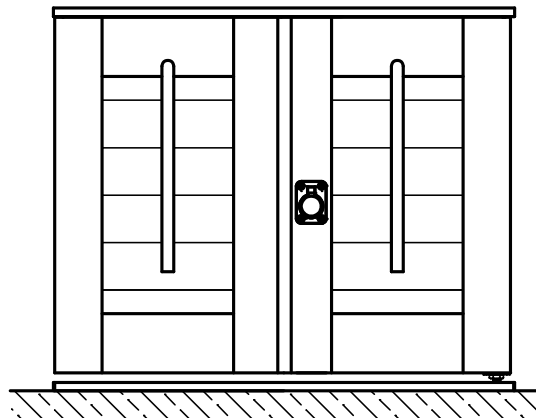


Please refer to below drawing of ring pull position for 90° Bifold Track:

LL

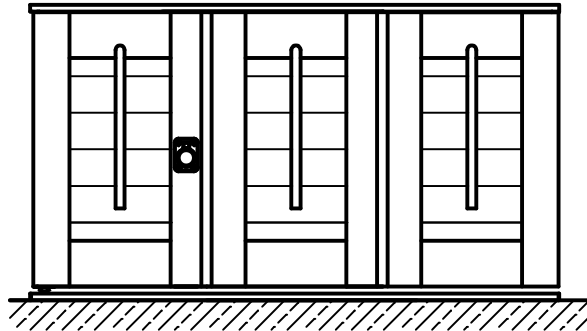


RR

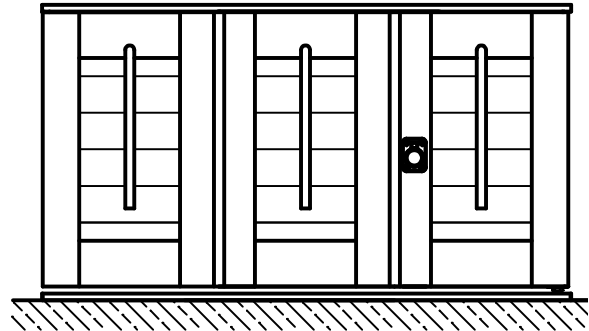


Normandy® Shutters

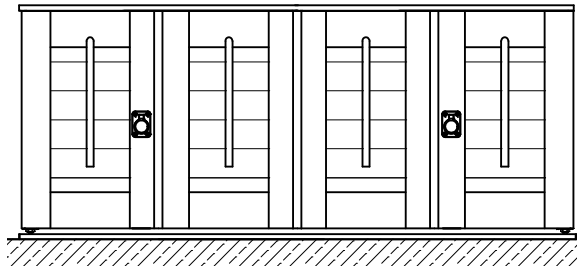
LLL



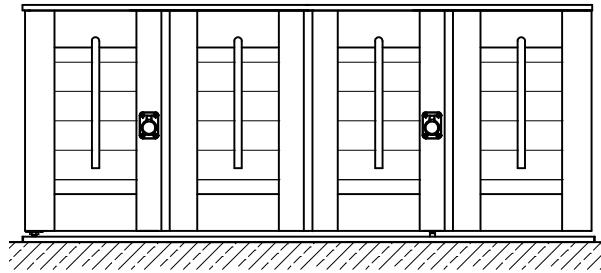
RRR



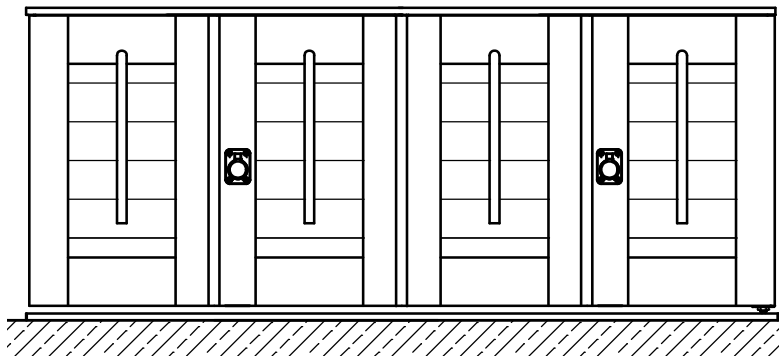
LLRR



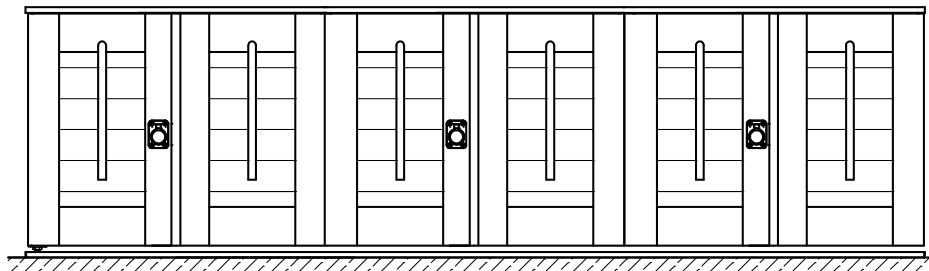
LLLL



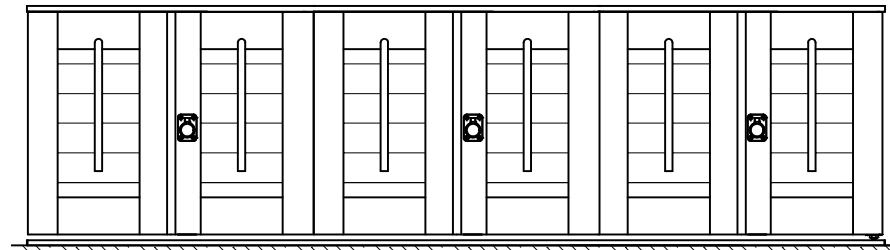
RRRR



LLLLLL

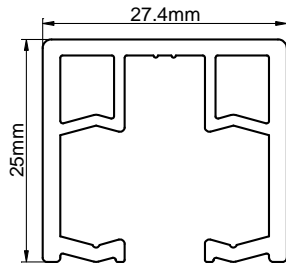


RRRRRR

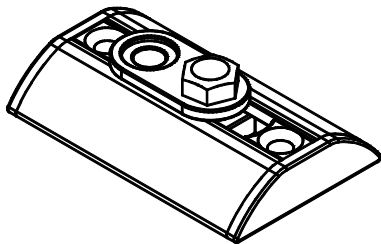


Track Dimension:

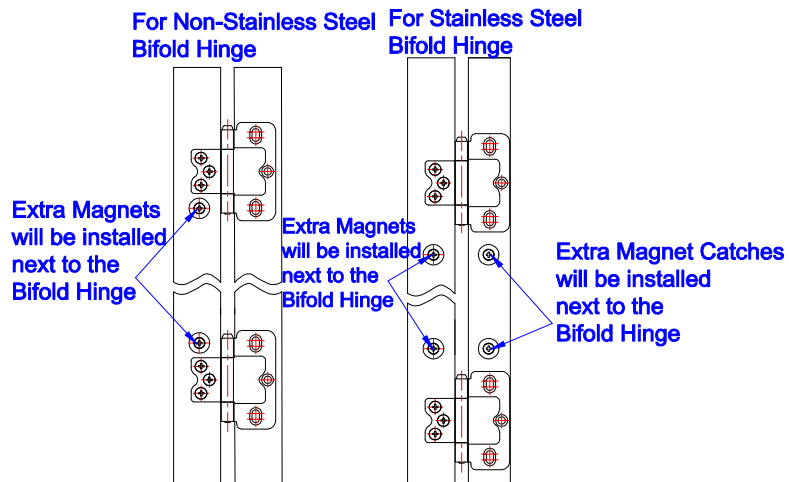
Top Track



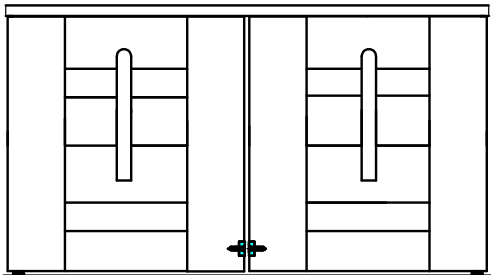
Bottom Pivot Bracket for 90 degree bifold:



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

Track Shutters—Bypass

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 (Wood)	6"	20"	30"	36"	42"
Single-Panel Height	10"	N/A	133"	133"	133"

Outside Mount

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

Max frame-to-frame height: window height + 4 ½"

Semi-Inside Mount

Max frame-to-frame width: window width - ⅛"

Max frame-to-frame height: window height + 1 ⅜"

Inside Mount

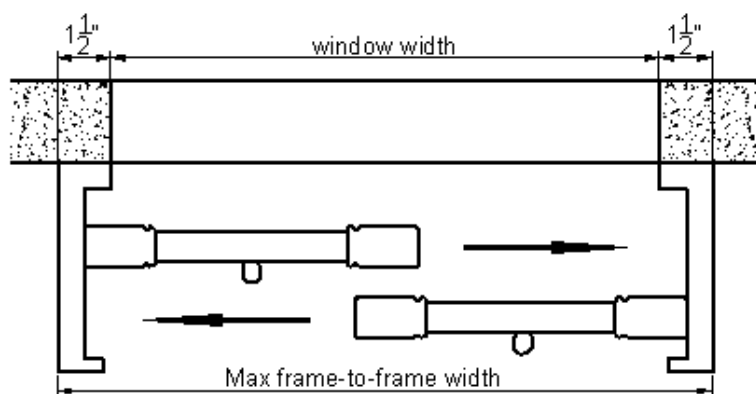
Max frame-to-frame width: window width - ⅛"

Max frame-to-frame height: window height - ⅛"

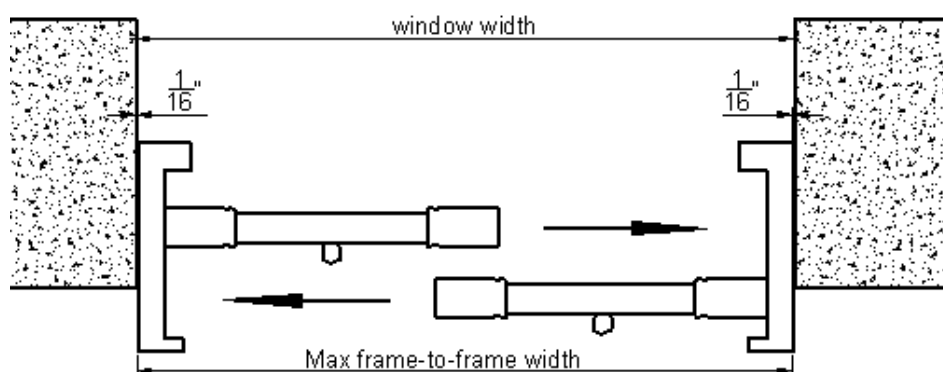
2014 Track Shutters—Bypass

Outside Mount

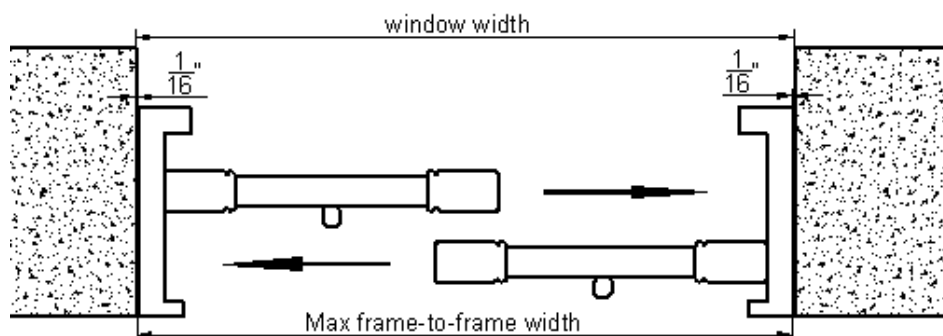
Top View



Semi-Inside Mount



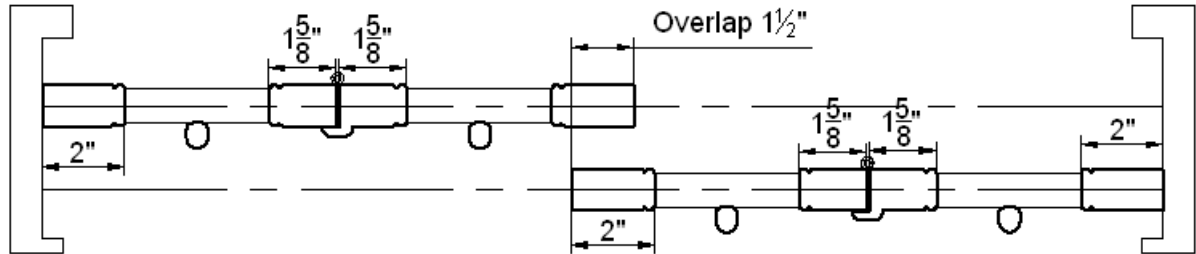
Inside Mount



2014 Track Shutters—Bypass

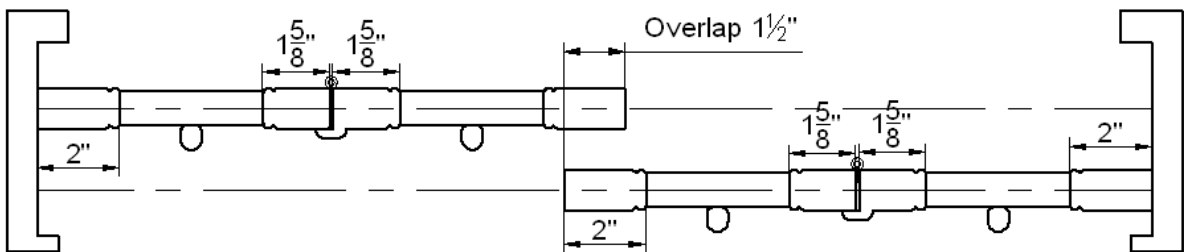
Top View

Combi - joined Panels (optional)

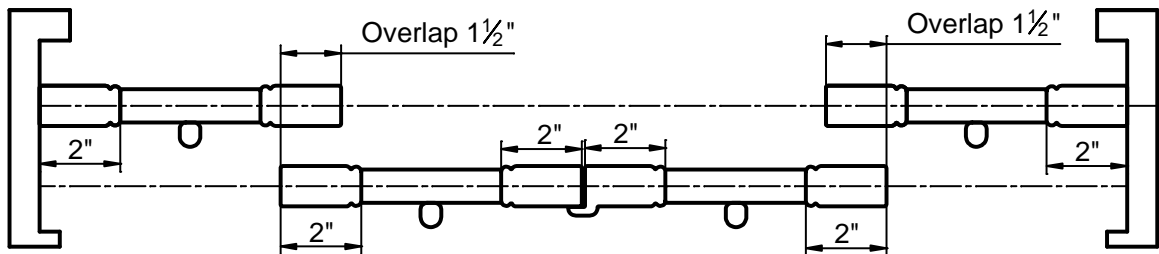


For shutters with 4 or more panels, please select “side open” or “center open”

Side Open



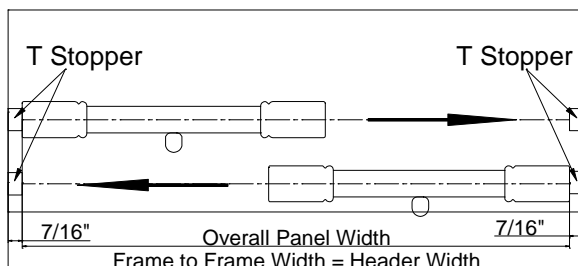
Center Open



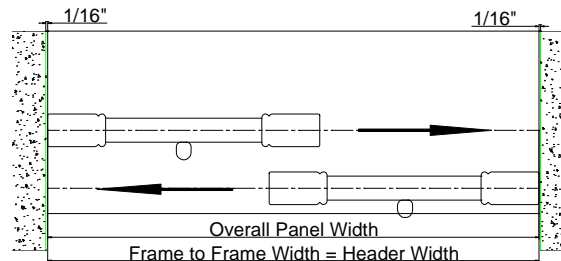
Stile: Only 2", 2 1/4" astragal stiles are available,
1 5/8" astragal stile only used for combi-joined panels.
Center stile is not available.

Size Definition

For Semi-Inside/OM without side boards

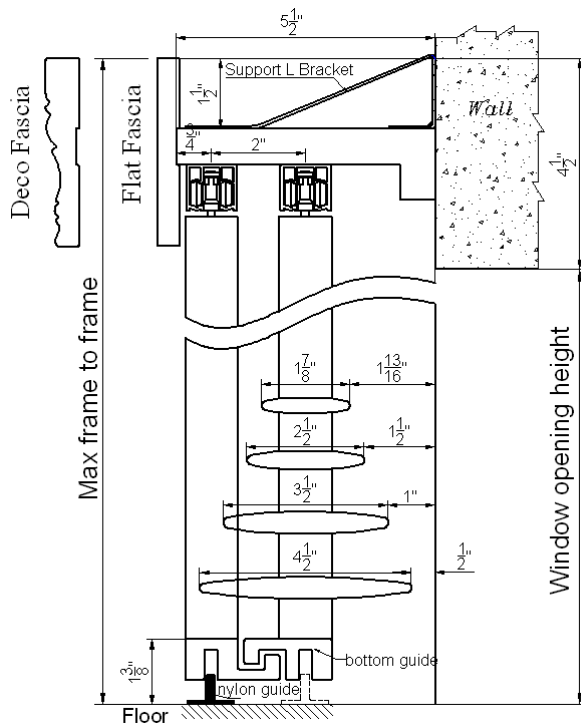


For IM without side boards

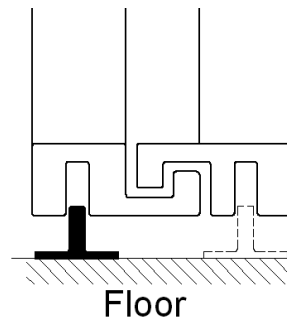


Note: For Semi-Inside/OM without side boards bypass, T Stopper will be supplied.

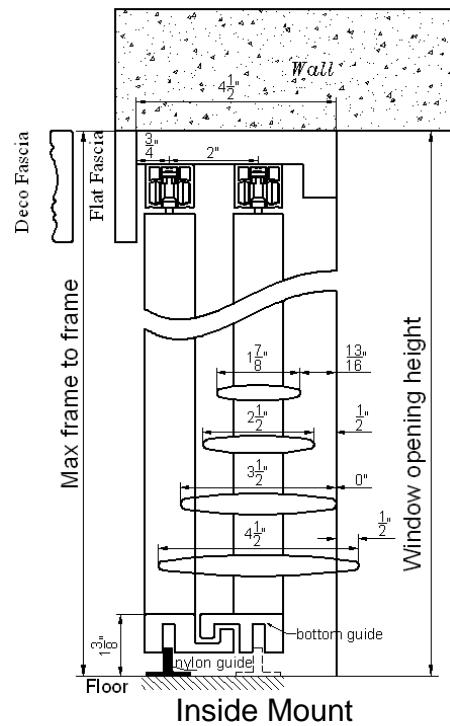
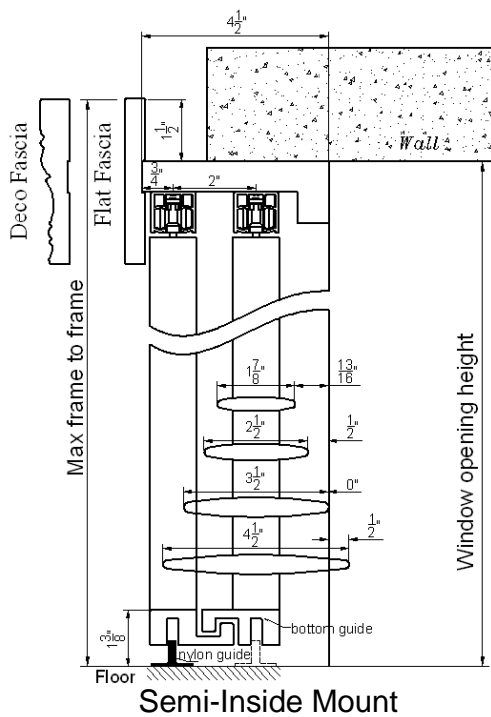
**Mounting Options (Closed Bypass)
Side View**



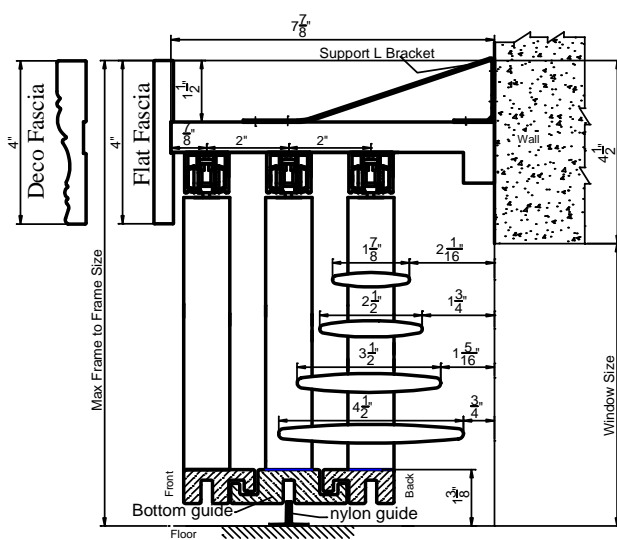
Bottom Guide



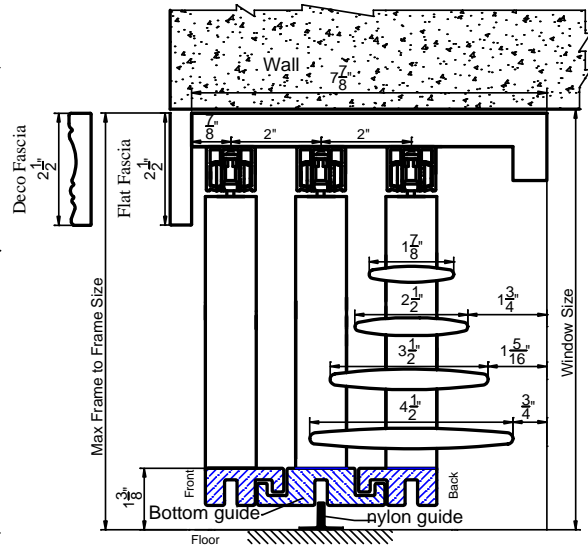
Outside Mount



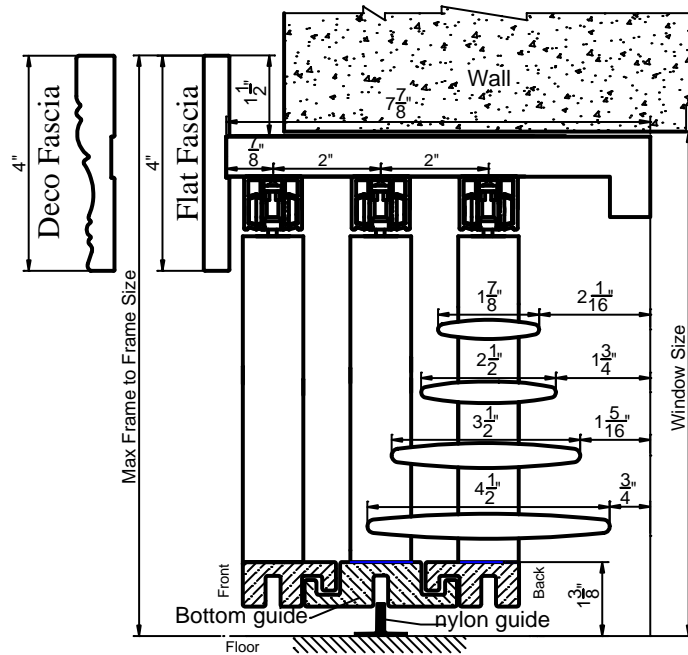
Mounting Options (Closed Bypass with 3 Tracks):



Outside Mount



Inside Mount

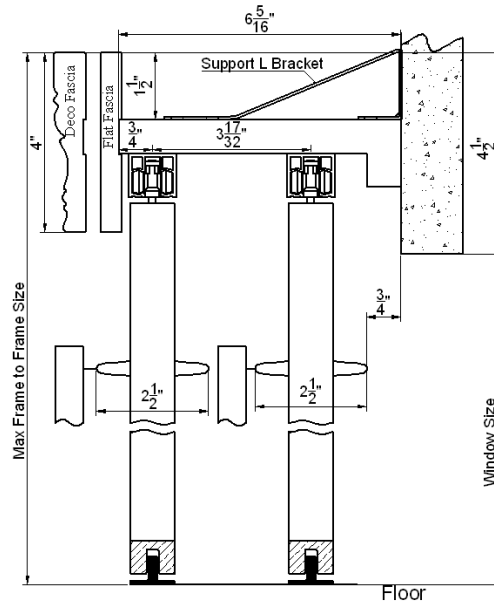


Semi-Inside Mount

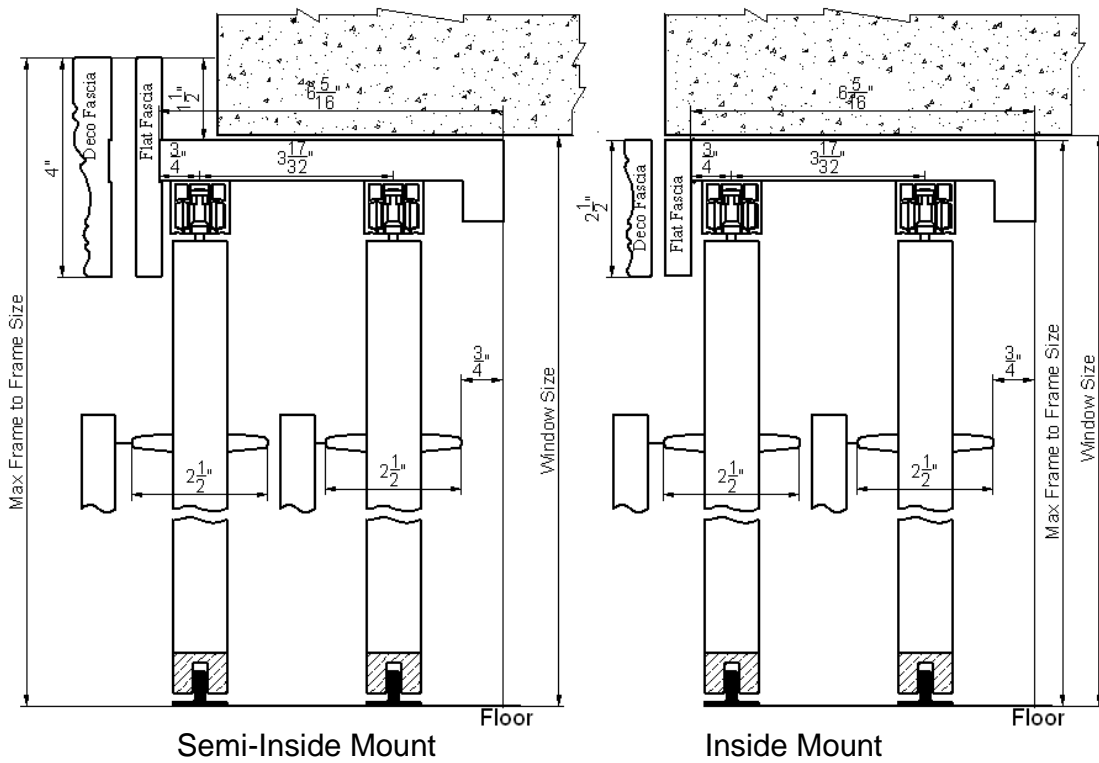
Mounting Options (Opened Bypass)

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

2 ½" Louver



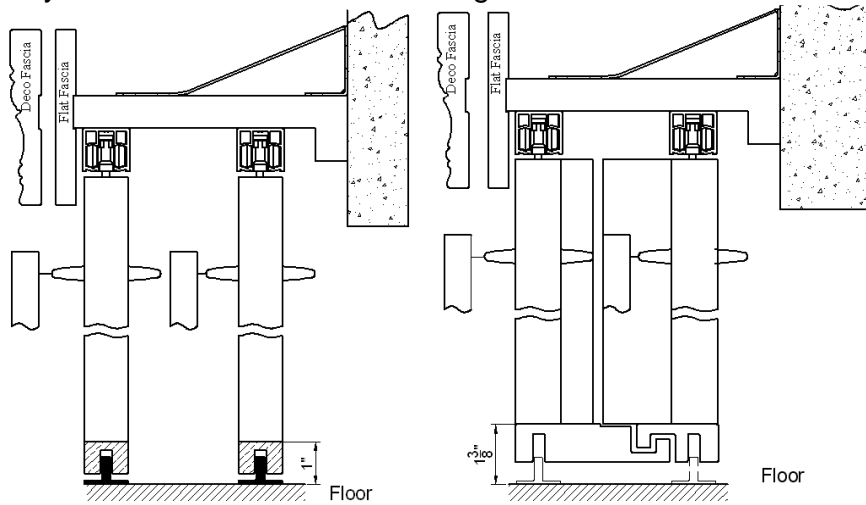
Outside Mount



Semi-Inside Mount

Inside Mount

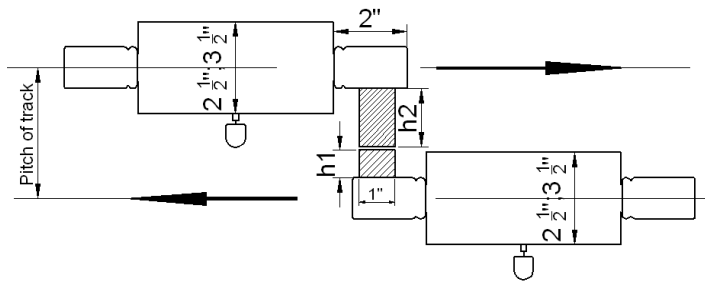
Open By Pass: has 2 kinds of bottom guide



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

	h2	1 15/16"	1 3/16"	1 15/16"	1 15/16"
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Track Shutters Framing Materials

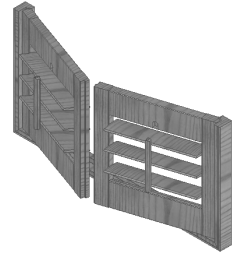
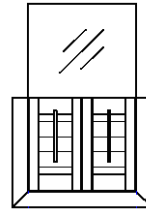
Framing	Size				Pc(s)
L Shape Header	Header (Closed Bypass)	Header (Opened Bypass)	Supporting Strip		1 pc
(2 in 1)	$\frac{3}{4}" \times 5\frac{1}{2}"^*$ (Default for Outside Mount; Optional for Semi-Inside and Inside Mount)	$\frac{3}{4}" \times 6\frac{1}{4}"^*$ ($2\frac{1}{2}"$ Louver)	$\frac{3}{4}" \times \frac{3}{4}"$		
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)				

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

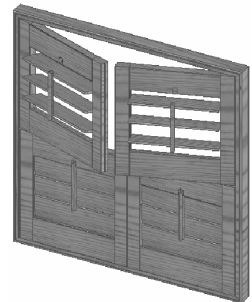
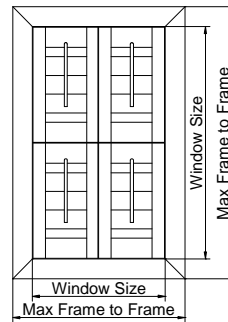
Café Shutters*

- 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.

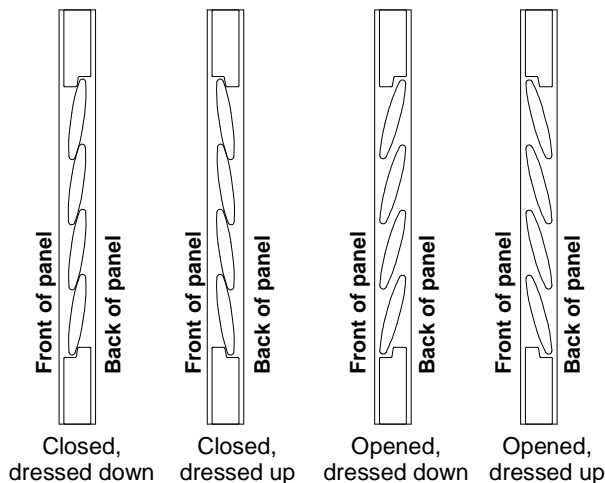
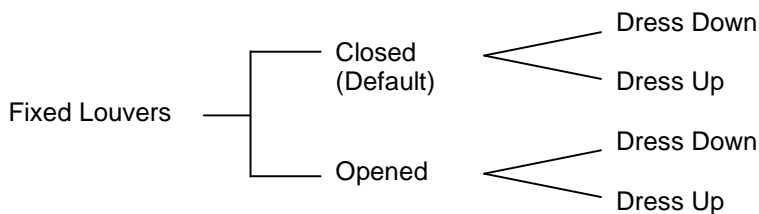


Double-Hung Shutters*

- For total number of panels, please include panels in both rows.
- 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.

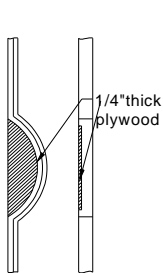
Special Options

French Door Cut-out Collection*

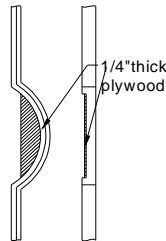
- Flush and offset cutout options are available in both curved and square French door cutout.
 - ◊ Offset cutout is good option for French Door with molding around the glass.
- All French door cutouts are only available in L frame except Type E and F. The batten is placed behind the Type E/F panel to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

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

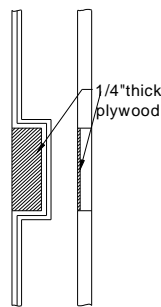
- For measurement details please refer to Form section.



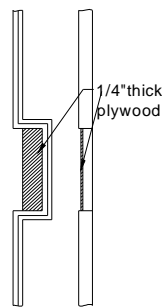
Type A



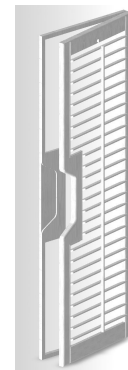
Type B



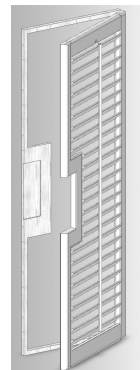
Type C



Type D



Type E



Type F

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

Specialties

Specialty Shutters*

Specialty shutters are made of hardwood, 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 data-bbox="220 947 367 1083"></div> <div data-bbox="215 1100 371 1150">Quarter-Round Sunburst</div> <div data-bbox="480 936 789 1083"></div> <div data-bbox="574 1100 695 1150">Half Round Sunburst</div> <div data-bbox="168 1178 440 1272"></div> <div data-bbox="204 1295 406 1348">Elongated Eyebrow Sunburst</div> <div data-bbox="480 1188 816 1272"></div> <div data-bbox="594 1295 695 1348">Eyebrow Sunburst</div>	<div data-bbox="938 919 1068 1077"></div> <div data-bbox="922 1100 1105 1155">Louvered Arch w/ Center Tilt Rod</div> <div data-bbox="1235 919 1390 1077"></div> <div data-bbox="1240 1100 1403 1129">Circle Sunburst</div> <div data-bbox="922 1188 1089 1335"></div> <div data-bbox="915 1341 1105 1369">Hexagon Sunburst</div> <div data-bbox="1208 1171 1471 1335"></div> <div data-bbox="1295 1341 1382 1369">Triangle</div>
Angle Top	
<div data-bbox="630 1486 748 1654"></div> <div data-bbox="634 1677 743 1705">Angle Top</div> <div data-bbox="967 1482 1019 1667"></div> <div data-bbox="850 1684 1166 1734">*Top louver of angle top might be fixed as shown above</div>	



Pricing

1) By Max Frame-to-Frame Measurement:							
Regular Shutter							
Inside and Outside Mount		Width	x	Height	/ 144	x	\$/sq ft
Track Shutter**							
Inside		Width	x	Height	/ 144	x	\$/sq ft
Semi-Inside and Outside Mount		Width	x	(Height-1½")	/ 144	x	\$/sq ft
2) By Net Panel Measurement:		Width	x	Height	/ 144	x	\$/sq ft
3) By Window Size:							
2" Camber Deco Frame	4-sided	(Width+4")	x	(Height+4")	/ 144	x	\$/sq ft
	3-sided with 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 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" Crown Z Frame	4-sided	(Width+4 ½")	x	(Height+4½")	/ 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 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

Normandy® Shutters

Pricing

2" Bel Air Z Frame	4-sided	(Width+2 ½")	x	(Height+2½")	/ 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 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	4-sided	(Width+2")	x	(Height+2")	/ 144	x	\$/sq ft
	3-sided with Designer Sill Cap	(Width+2")	x	(Height+7")	/ 144	x	\$/sq ft
	3-sided with Sill Plate	(Width+2")	x	(Height+2")	/ 144	x	\$/sq ft
	3-sided	(Width+2")	x	(Height+1")	/ 144	x	\$/sq ft
	2-sided with Designer Sill Cap	(Width+2")	x	(Height+6")	/ 144	x	\$/sq ft
	2-sided with Sill Plate	(Width+2")	x	(Height+1")	/ 144	x	\$/sq ft
	2-sided	(Width+2")	x	(Height)	/ 144	x	\$/sq ft
Vintage Hang Strip	Inside	Width	x	Height	/ 144	x	\$/sq ft
	Outside 4-sided	(Width+3")	x	(Height+3")	/ 144	x	\$/sq ft
	Outside 3-sided 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 Designer Sill Cap	(Width+3")	x	(Height+6")	/ 144	x	\$/sq ft
	Outside 2-sided	(Width+3")	x	(Height)	/ 144	x	\$/sq ft
Beaded L Frame/ Colonial L Frame/ Bullnose L Frame/ Vintage 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 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 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 & Surcharges

Option	Surcharge	Remark
Beaded L Frame with ¼" Thick Light Block	No surcharge	
L Frame with ½" & 1" Buildout	5%	
Notch Out L Frame	12%	
Deco Frame with ½", 1" & 1½" Extension	5%	
Custom Extension	12%	Up to 2" for L Frames, Deco Frames and Hang Strip (OM)
		Up to 1" for Z Frames (not available for Tilt Out Z frame)
T Post	No surcharge	
T Post Extension	5%	Up tp 2"
Custom width T Post	6%	Up tp 7½"
90 degree Corner Post & 135 degree Bay Post	No surcharge	
Double Hung / Horizontal 1¼" T Post	10%	
Custom Angle/Depth Bay Post	6%	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" louvers.
Optimal™ Antimicrobial Treatment	10%	
Café Shutters	30%	Surcharge applies when the frame exceeds 5" beyond the top of the panel.
Fixed Louver Panel	No surcharge	Please indicate fixed position: up/down and open/close
French Door Cutout	See specialty surcharge	Please contact your Customer Account Specialist for details
Track (Bi Fold / Bypass)	40%	
Specialties	See specialty surcharge	Please contact your Customer Account Specialist for details
Stainless Steel Hinges	5%	
PerfectTilt (regular)	Per motor, per remote control	Please contact your Customer Account Specialist for details
PerfectTilt (solar)	Per motor, per remote control	Please contact your Customer Account Specialist for details

Appendix

Color Coordination Chart

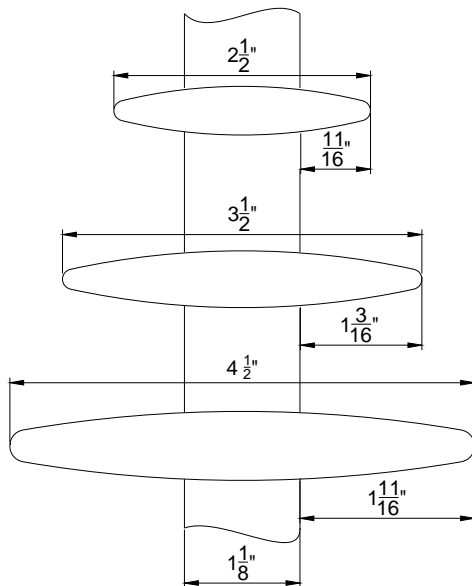
Code / Normandy Solid	Hinge Color
001 Pure White	Silk White
003 Silk White	Silk White
004 Bright White	Silk White
006 Pearl	Pearl
009 Creamy	Bisque
011 Cameo	Bisque
012 Crisp Linen	Bisque
013 Bisque	Bisque
030 Moondust	Bisque

Normandy Shutters

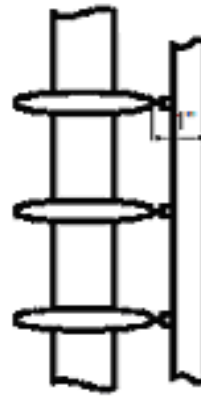
Code / Normandy Stain	Hinge Color
103 Maple Sugar	Antique Brass
105 Hermitage Green	Antique Brass
108 Rustic Gray	Antique Brass
110 Limed White	Antique Brass
205 Goldenrod	Antique Brass
206 Pecan	Antique Brass
211 Cherry	Antique Brass
214 Cocoa	Antique Brass
221 Black Walnut	Antique Brass
222 Light Pine	Antique Brass
224 Mellow Beech	Antique Brass
226 Chestnut	Antique Brass
227 Red Oak	Antique Brass
229 Rich Walnut	Antique Brass
230 Old Teak	Antique Brass
231 Spring Rose	Antique Brass
232 Red Mahogany	Antique Brass
233 Dark Mahogany	Antique Brass
237 Wenge	Antique Brass
242 Auburn	Antique Brass
249 Acorn	Antique Brass
250 Sumatra	Antique Brass

Louver Depth Clearance

Standard Tilt Rod



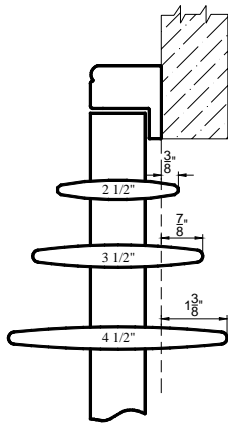
Offset Tilt Rod



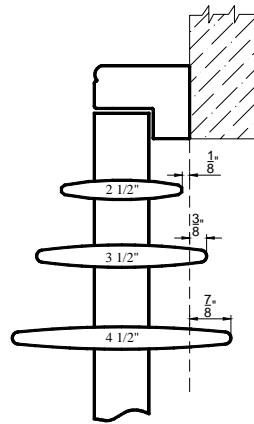
Louver Depth Clearance For Specific Frames

Louver Depth Clearance for

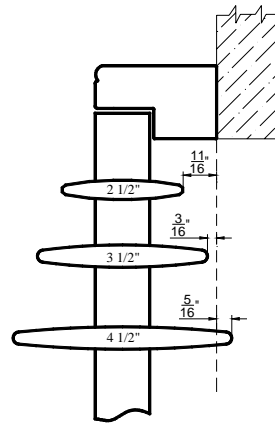
- Offset tilt rod, add 1" from the edge of the louvers



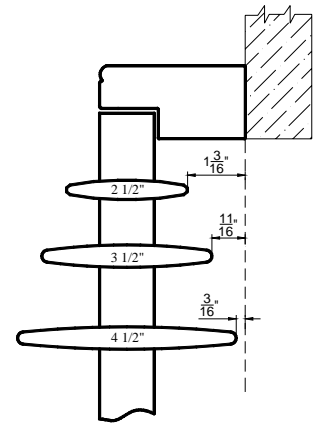
L Frame
w/ 1/4" Light Block



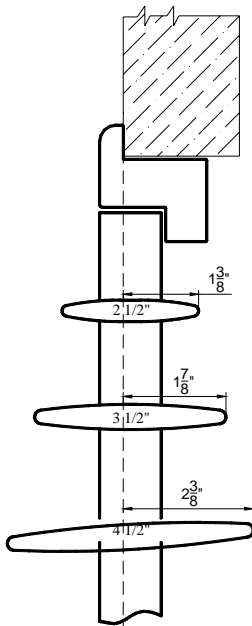
L Frame



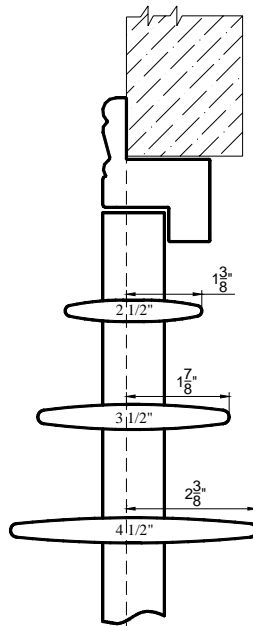
L Frame
w/ 1/2" Buildout



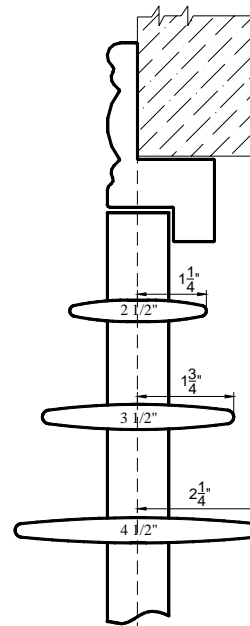
L Frame
w/ 1" Buildout



1 1/2" Bullnose Z Frame

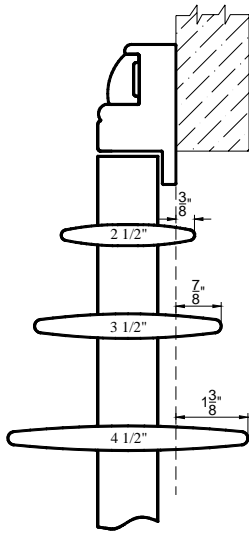


2" Bel Air Z Frame

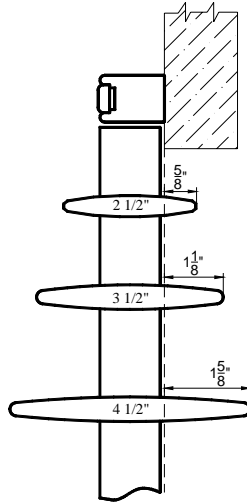


3" Crown Z Frame

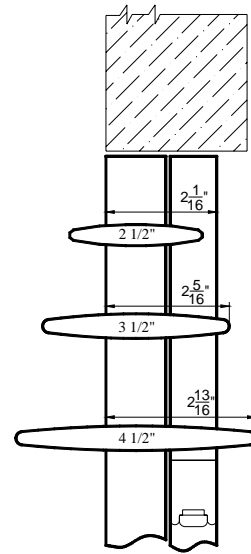
Louver Depth Clearance For Specific Frames



2" Camber Deco Frame



Hang Strip
(beside the panel)



Hang Strip
(behind the panel)