NORMAN®

S H U T T E R S

Normandy Shutters

2024 Shutter Revision log

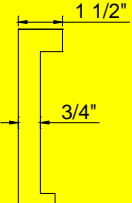| Effective Date	Topic	Section	Note
2024/02/01	Stile Sill Cap	c,e,l	c: Update stile information. e: Add content and drawings. Please note that by **DEFAULT: the Designer Sill Cap will be flush-cut and will not have a Return (bullnose edge) on the side(s) of the shutter th at has a Sill Plate at the left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

Normandy Shutters

	Octagon		l: Add content and drawing. The left and right vertical stiles cannot be less than 8.125" for the panel to have hinges on the outer left and/or right stiles with L / R / LR / LTR configurations. For stiles less than 8.125" tall, the configuration must be RTL with panels hinged to the T post.
2024/02/21	Sill Cap	e,k	e: Change content from When the customer indicates the existing sill width for the Designer Sill Cap, and the custom extended sill width is less than the standard: **½" extend on each side** (after calculation), then the standard **½" extend on each side** will be used. When the customer indicates the existing sill width for the Mission Sill Cap, and the custom extended sill width is less than the standard: **1" extend on each side** (after calculation), then the standard **1" extend on each side** will be used. to
	Café Shutter		k: Update drawing.

Table content for Sill Cap (e):

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

Normandy® Shutters

2024/03/08	Features and Benefits	a	Change content from 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. to A wide selection of frames provides both the appearance and function to match your style and preference. Several of the frame options include a removable insert to keep installation screws out of sight for a clean look.
2024/03/16	InvisibleTilt	g,j2,k	Change InvisibleTilt™ / Invisible Tilt to InvisibleTilt®.
2024/05/01	Colors	b,i	Change "OSMO Colors" to "Premium Colors".
2024/05/08	Specialty Shutters	l	Update specialty shape information
2024/05/16	Custom colors	k	Custom colors update information.
	Frame	b,c,e,j1, k	Update the drawings of the wood frames with insert
	Horizontal T post Frame include in Rail	e,l	e: Add content "For Double Hung shutter with a horizontal T post, the face width of the horizontal T post defaults to 1 3/4"." l: Add content "For this reason, the panel will not have any magnets or hinges, since it is a fixed panel."
2024/07/15 (MO date)	L Bracket 44mm	i	Add L Bracket 44mm and color coordination chart
2024/07	Specialty Shutters	l	Update and add content: The left and right vertical stiles cannot be less than 8.125" (for 2.375" series hinges) for the panel to have hinges on the outer left and/or right stiles with L / R / LR / LTR configurations. For stiles less than 8.125" (for 2.375" series hinges) tall, the configuration must be RTL with panels hinged to the T post. For all specialty shape shutters, if the hinges are required, the smallest vertical stile straight height (net panel leg height) must be greater than 8 1/8" (for 2.375" series hinges) / 9 3/4" (for Direct Mount 3" hinge) to allow for hinge installation. The limitations of these custom-made specialty shutters shown below are an approximate range. Actual limitations and availability vary depending on the width to height relationship, frame type, stile size, etc. This chart is used for general reference only.

2024 Shutter Revision log

2024/07/18	For bay window at 170 degree or above	e	Add content : Bay post will be used when the degrees of all bay posts in a Bay Window Shutter with both <170 degree and >= 170 degree at the same time.
2024/08/07	Stile	j2	Update description of stile.

2024/08/24	Sill cap
	
	Magnet
	
	Mount Options For Direct Mount
	
	Bypass
		e, i, j2	e: Update drawings;
			
			i:
			1.Update magnet drawing;
			
			2. Change content from
			● Direct mount without top and/or bottom sill option, "Light block", "L magnet catch" and "Light block & L magnet catch" options are selectable.
			● "Light block", "L magnet catch" and "Light block & L magnet catch" options are applied to hang strip in one of the following situations:
			  • 2-sided Hang strip IM without top and/or bottom sill option;
			  • 2-sided Hang strip OM without top and/or bottom sill option;
			  • 3-sided Hang strip OM without bottom sill option;
			  • 3-sided inverted Hang strip OM beside the panel without top sill option;
			to
			● A Direct Mount shutter that does not have a top and/or bottom sill option is able to use "Light Block", "L magnet catch" or "Light block & L magnet catch" options.
			● "Light Block", "L magnet catch" or "Light block & L magnet catch" options can be used for Hang Strip shutters that have the following frame configurations:
			  ● 2-sided Hang strip IM that does not have a top and/or bottom sill option;
			  ● 2-sided Hang strip OM that does not have a top and/or bottom sill option;
			  ● 3-sided Hang strip OM that does not have a bottom sill option;
			  ● 3-sided Inverted Hang strip OM (hang strip beside the panel) that does not have a top sill option;
			
			j2: Add content and drawing.
			Note: The boxout frame's "Side Frame" as well as panel overlap are additional factors that will effect the individual panel width calculation.
			Side Frame = ¾" thickness on each side
			Panel overlap will be 1 1/2" for 2" stile and 1 3/4" for 2 1/4"stile;
			
			1 1/2"
			
			3/4"

Pending	Bottom Pivot Brackets	j1	Update information of Bottom Pivot Brackets.

Normandy *Shutters*

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Features and Benefits

- Brings a touch of country elegance to your home. The textured finish of Normandy stained hardwood shutters blends the tranquility of nature with distinctive luxury.

- Normandy is treated with our exclusive Prescription Wood Conditioning™ technique according to the moisture content of the final installation location to reduce post-installation shrinking and swelling.

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

- Reinforced engineered stiles -- Multiple layers of wood bonded together to reinforce durability to the core of the stile, which results in a robust support system for the shutter panel.

- Multiple stile options available in various sizes to accommodate different window configurations. Astragal (solid color shutters only) or Rabbet stiles provide a natural light block between panels.

- Employs mortise and tenon joinery that resists shear and racking forces endured by shutters and ensures prolonged stability and durability.

- Quick and easy on-site installation with the pre-installed magnets and hinges, as well as pre-mitered frames and slotted keyholes.

- Labor-intensive hand finishing process involves multiple sequences of sanding and coating with fine layers of stain or paint for a brilliant, lustrous finish.

- Personalize shutters with special options. Choose from hidden or offset tilt rods, double-hung panels, café shutters, track systems, specialty shapes and many more.

- Special panel and frame designs are finely crafted to accommodate unique window configurations. Create unity or attract attention with Normandy's exclusive decorative elements.

- Available in classic paint, radiant stain, and stimulating designer colors that harmonize into the style of any home.

- A guarantee of Norman Shutters' exemplary quality with a lifetime limited warranty on materials and workmanship.

Colors & Louver Sizes/Louver Clearance

Normandy Shutters

	No.	Color ID	Color Name
Paint (24 colors)	1	001	Pure White
	2	002	Extra White
	3	003	Silk White
	4	004	Bright White
	5	006	Pearl
	6	007	Ivory Lace
	7	009	Creamy
	8	012	Crisp Linen
	9	013	Bisque
	10	017	Gray Black
	11	019	String
	12	032	Sea Mist
	13	046	Ice
	14	053	Clay
	15	063	Decorator's White
	16	066	Winchester White 2010
	17	076	Aura White
	18	080	Taupe Gray
	19	836	Classic Black
	20	090	TS White
	21	600	True White
	22	601	Chiffon
	23	603	Natural Linen
	24	609	Chateau Brown
Stain (18 colors)	1	108	Rustic Gray
	2	110	Limed White
	3	200	Natural
	4	202	Golden Oak
	5	205	Goldenrod
	6	221	Black Walnut
	7	227	Red Oak
	8	229	Rich Walnut
	9	230	Old Teak
	10	237	Wenge
	11	242	Auburn
	12	246	Matte Black
	13	248	Pretzel

*Some surcharges apply

14	250	Sumatra
15	252	Toffee
16	254	Driftwood
17	255	Silver Gray
18	862	French Oak

	No.	Color ID	Color Name
Premium Colors (6 Colors)	1	1003	White Matte
	2	1109	Silk Gray
	3	1111	Granite Gray
	4	1203	Black
	5	1204	Ebony
	6	1502	Teak

Note: Unfinished shutters are not available.

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

Louvers	
Elliptical	1 7/8"
	2 ½"
	3"
	3 ½"
	4 ½"
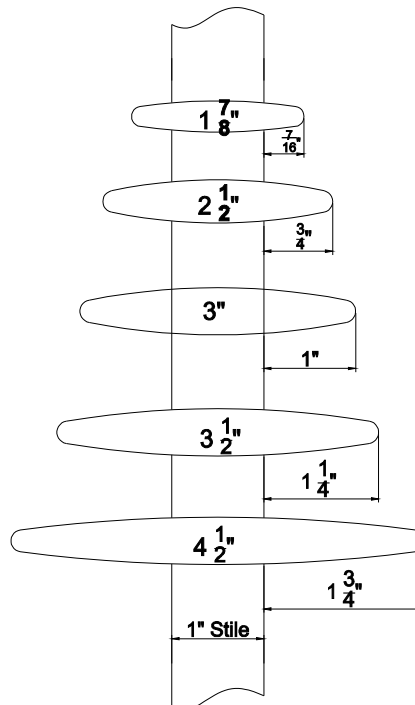
Normandy® Shutters

Louver Depth Clearance For Specific Frames
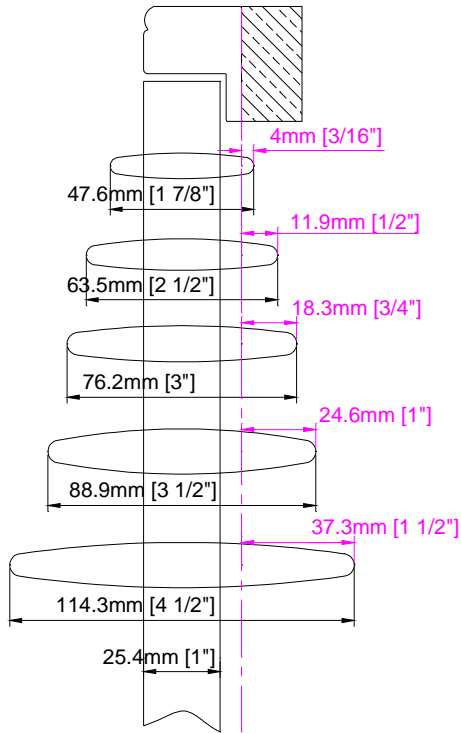
L Frame with1/4" light block
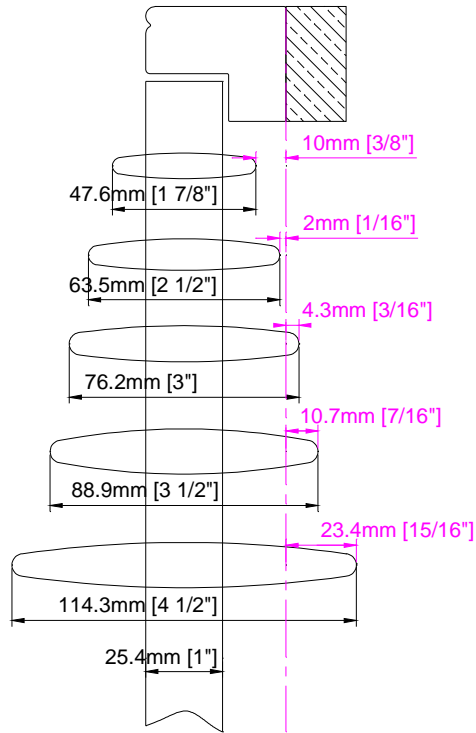
L Frame
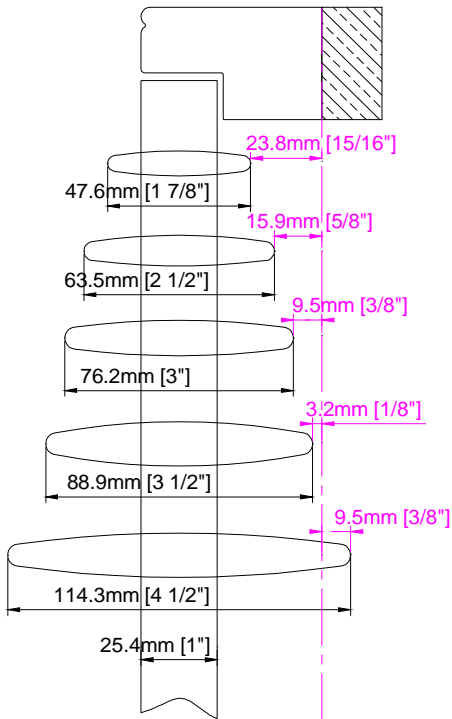
L Frame with 1/2" Buildout
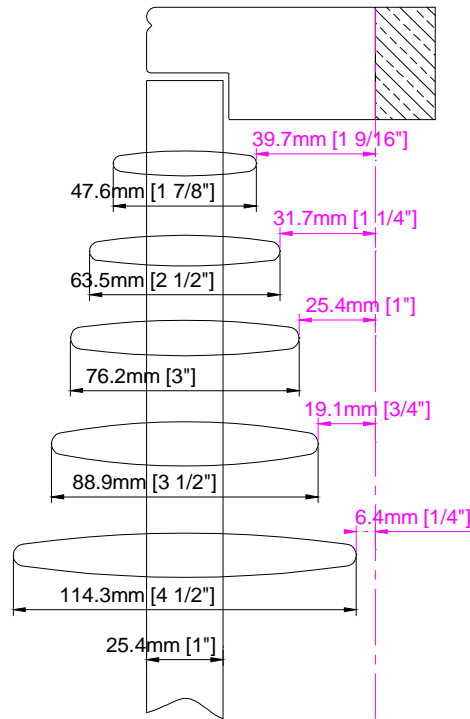
L Frame with 1" Buildout

*Some surcharges apply

1 1/4" Beaded Z Frame

27mm [1 1/16"]
47.6mm [1 7/8"]
34.9mm [1 3/8"]
63.5mm [2 1/2"]
41.3mm [1 5/8"]
76.2mm [3"]
47.6mm [1 7/8"]
88.9mm [3 1/2"]
60.3mm [2 3/8"]
114.3mm [4 1/2"]
25.4mm [1"]

1 1/2" Bullnose Z Frame

27mm [1 1/16"]
47.6mm [1 7/8"]
34.9mm [1 3/8"]
63.5mm [2 1/2"]
41.3mm [1 5/8"]
76.2mm [3"]
47.6mm [1 7/8"]
88.9mm [3 1/2"]
60.3mm [2 3/8"]
114.3mm [4 1/2"]
25.4mm [1"]

2" Bel Air Z Frame

27mm [1 1/16"]
47.6mm [1 7/8"]
34.9mm [1 3/8"]
63.5mm [2 1/2"]
41.3mm [1 5/8"]
76.2mm [3"]
47.6mm [1 7/8"]
88.9mm [3 1/2"]
60.3mm [2 3/8"]
114.3mm [4 1/2"]
25.4mm [1"]

3" Crown Z Frame

22.5mm [7/8"]
47.6mm [1 7/8"]
30.4mm [1 3/16"]
63.5mm [2 1/2"]
36.8mm [1 7/16"]
76.2mm [3"]
43.1mm [1 11/16"]
88.9mm [3 1/2"]
55.8mm [2 3/16"]
114.3mm [4 1/2"]
25.4mm [1"]

Tilt Out Z Frame

3.6mm [1/8"]
47.6mm [1 7/8"]
4.3mm [3/16"]
63.5mm [2 1/2"]
10.7mm [7/16"]
76.2mm [3"]
17mm [11/16"]
88.9mm [3 1/2"]
29.7mm [1 3/16"]
114.3mm [4 1/2"]
25.4mm [1"]

*Some surcharges apply

Hang Strip (Behind the panel)

50.8mm [2"]
47.6mm [1 7/8"]
50.8mm [2"]
63.5mm [2 1/2"]
50.8mm [2"]
76.2mm [3"]
57.1mm [2 1/4"]
88.9mm [3 1/2"]
69.8mm [2 3/4"]
114.3mm [4 1/2"]
25.4mm [1"]

Hang Strip (Beside the panel)

9.1mm [3/8"]
47.6mm [1 7/8"]
17mm [11/16"]
63.5mm [2 1/2"]
23.4mm [15/16"]
76.2mm [3"]
29.7mm [1 3/16"]
88.9mm [3 1/2"]
42.4mm [1 11/16"]
114.3mm [4 1/2"]
25.4mm [1"]

Deco Frame

4mm [3/16"]
47.6mm [1 7/8"]
11.9mm [1/2"]
63.5mm [2 1/2"]
18.3mm [3/4"]
76.2mm [3"]
24.6mm [1"]
88.9mm [3 1/2"]
37.3mm [1 1/2"]
114.3mm [4 1/2"]
25.4mm [1"]

Normandy® Shutters

*Some surcharges apply

Stiles
Default: Beaded stile
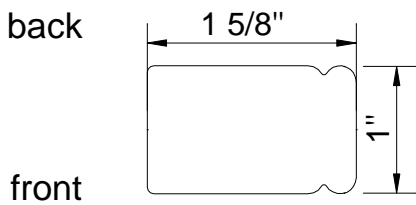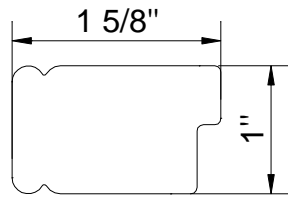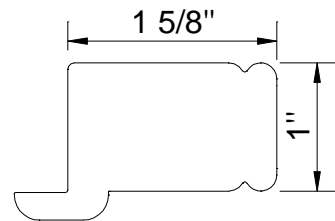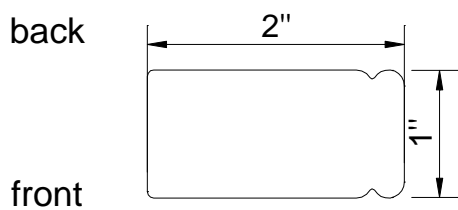
back   1 5/8"   1 5/8"   1 5/8"

1"

front

1 5/8" Butt Stile   **1 5/8" Rabbet Stile**   **1 5/8" Astragal Stile**

back   2"   2"   2"

1"

front

2" Butt Stile   **2" Rabbet Stile**   **2" Astragal Stile**

back   2 1/4"   2 1/4"   2 1/4"

1"

front
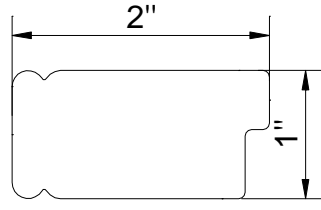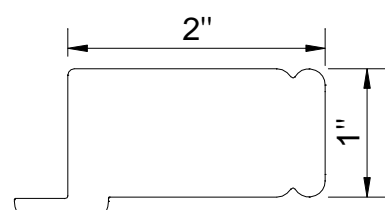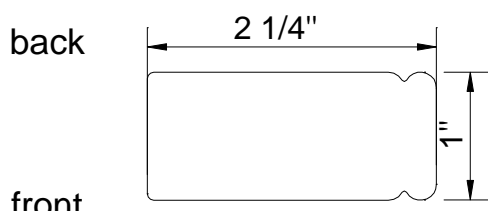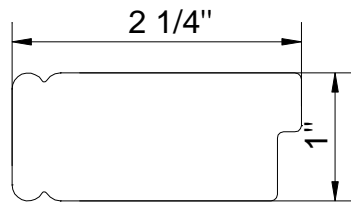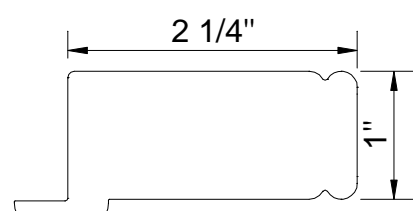
2 1/4" Butt Stile   **2 1/4" Rabbet Stile**   **2 1/4" Astragal Stile**

Optional: Chamfer stile

back   1 5/8"   1 5/8"   1 5/8"

1"

front

1 5/8" Butt Stile   **1 5/8" Rabbet Stile**   **1 5/8" Astragal Stile**

back — front

| 2" | 2" | 2" |

2" Butt Stile   **2" Rabbet Stile**   **2" Astragal Stile**

back — front

| 2 1/4" | 2 1/4" | 2 1/4" |
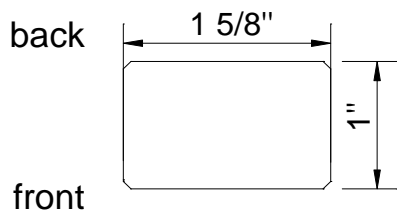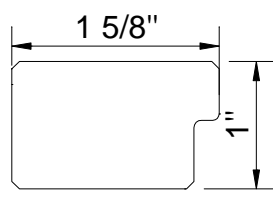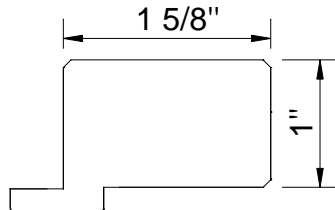
2 1/4" Butt Stile   **2 1/4" Rabbet Stile**   **2 1/4" Astragal Stile**
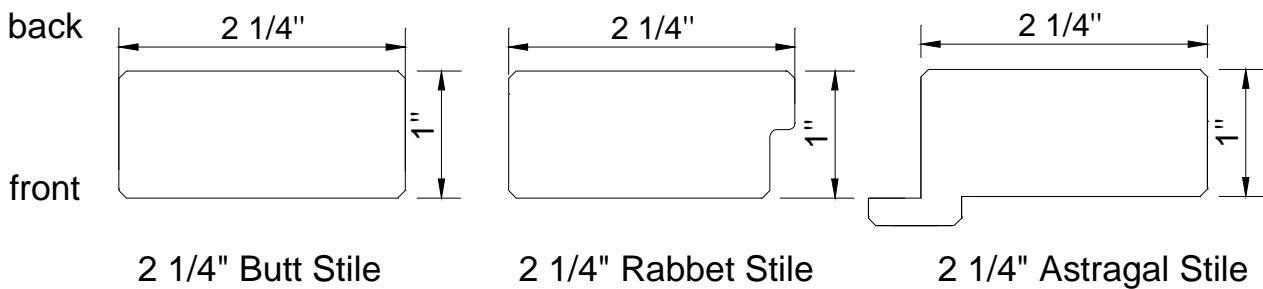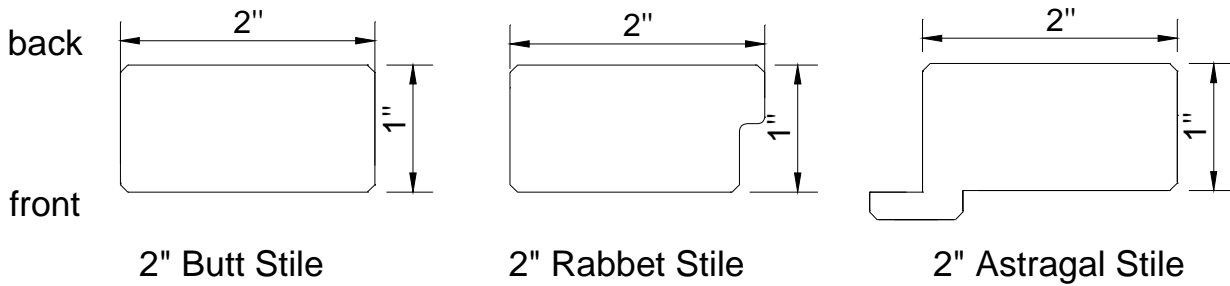
Stile between panel closure
Single panel

I) Panel width < 9"

   Rabbet stile (Deco frame, L frame, Z frame
   and Hang strip beside panel)
   ◦ 1 $\frac{5}{8}$"
   ◦ 2" (default)
   ◦ 2 1/4"

   Butt stile only (Hang strip behind panel and Direct Mount)
   ◦ 1 $\frac{5}{8}$"
   ◦ 2" (default)
   ◦ 2 1/4"

II) Panel width $\geq$ 9"

   Butt stile only
   ◦ 1 $\frac{5}{8}$" (Optional for panel width ≤ 12")
   ◦ 2" (default)
   ◦ 2 1/4"

2 panels or more

   Rabbet stile & Astragal stile
   ◦ 1 $\frac{5}{8}$" (Optional for panel width ≤ 12")
   ◦ 2" (default)
   ◦ 2 1/4"

Panel Configurations

Single Panel

L   OR   R

2 Panels

LR   LL   RR

3 Panels

LLR   LRR   LTLTL   LTRR   LLTR

4 Panels

LLRR   LLTRR

RRTLL   LTLRTR

6 Panels

LRTLRTLR

LLTLRTRR

LTLLRRTR

RTLLRRTL
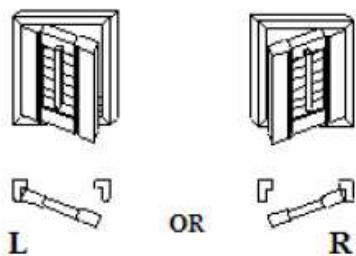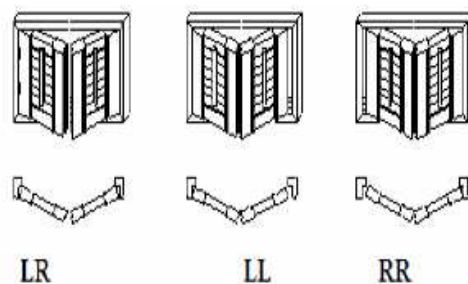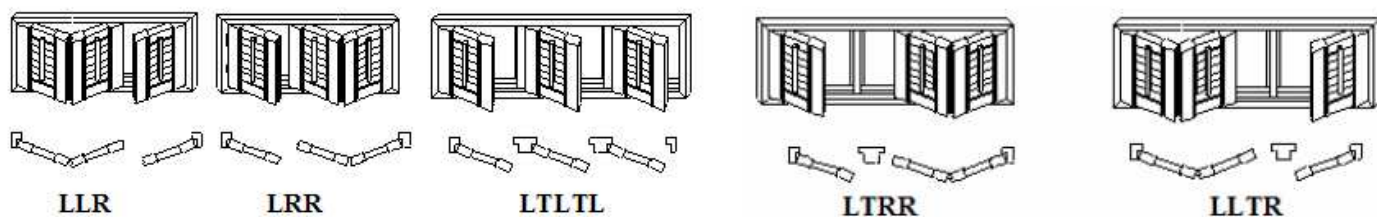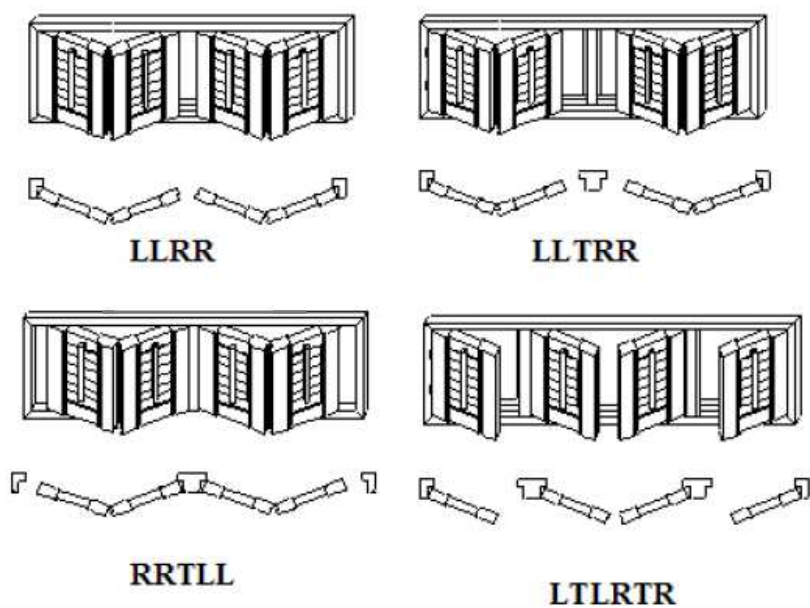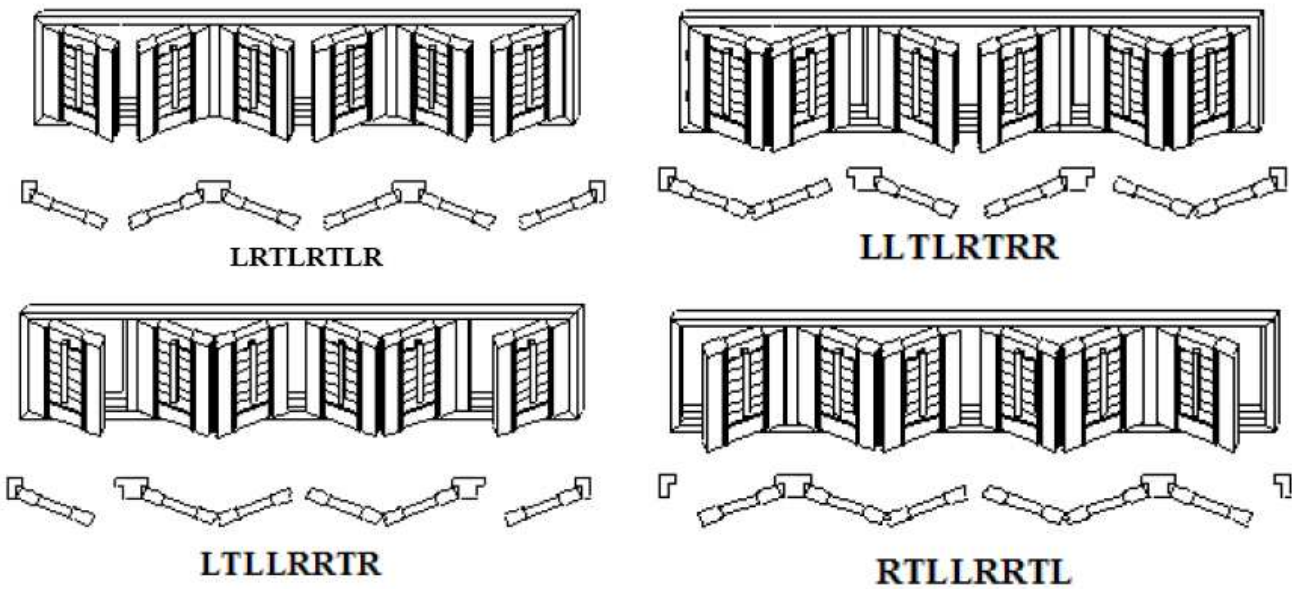
Panel Configurations – Astragal Stile

○ 2 Panels – LR

○ 3 Panels - LRR
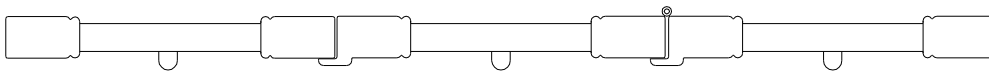
○ 3 Panels – LLR
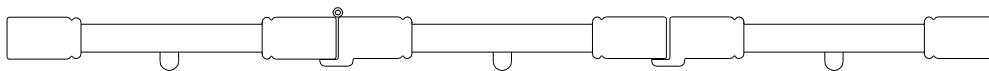
○ 4 Panels - LLRR

Frame Styles

Normandy Shutters

22.2mm [0.875"] · **32.5mm [1.280"]** · **38.1mm [1.500"]**
**Beaded L Frame
with 1/4" Light Block**

22.2mm [0.875"] · **46.5mm [1.830"]** · **38.1mm [1.500"]**
Beaded L Frame

22.2mm [0.875"] · **60.3mm [2.375"]** · **38.1mm [1.500"]**
**Beaded L Frame
with 1/2" Buildout**

22.2mm [0.875"] · **76.2mm [3.000"]** · **38.1mm [1.500"]**
**Beaded L Frame
with 1" Buildout**

22.2 mm [0.875"] · **32.5 mm [1.28"]** · **38.1 mm [1.5"]**
Vintage L Frame
with 1/4" Light Block

22.2 mm [0.875"] · **46.5 mm [1.83"]** · **38.1 mm [1.5"]**
Vintage L Frame

22.2 mm [0.875"] · **60.3 mm [2.375"]** · **38.1 mm [1.5"]**
Vintage L Frame
with 1/2" Buildout

22.2 mm [0.875"] · **76.2 mm [3"]** · **38.1 mm [1.5"]**
Vintage L Frame
with 1" Buildout

Also available

○ Custom extensions* up to 2" for L frames

50.8 mm [2"] · **32.5 mm [1.28"]** · **66.7 mm [2.625"]**
2" Camber Deco Frame

50.8 mm [2"] · **32.5 mm [1.28"]** · **66.7 mm [2.625"]**
2" Classic Deco Frame

22.2mm [0.875"] · **32.5mm [1.280"]** · **38.1mm [1.500"]**
2" Deco Sill Plate

Frame Styles

76.2 mm [3"]

32.5 mm [1.28"]

92.1 mm [3.625"]

3" Ridge Deco Frame

22.2mm [0.875"]

46.5mm [1.830"]

9.5mm [0.375"]

Tilt Out Z Frame

22.2mm [0.875"]

32.5mm [1.280"]

38.1mm [1.500"]
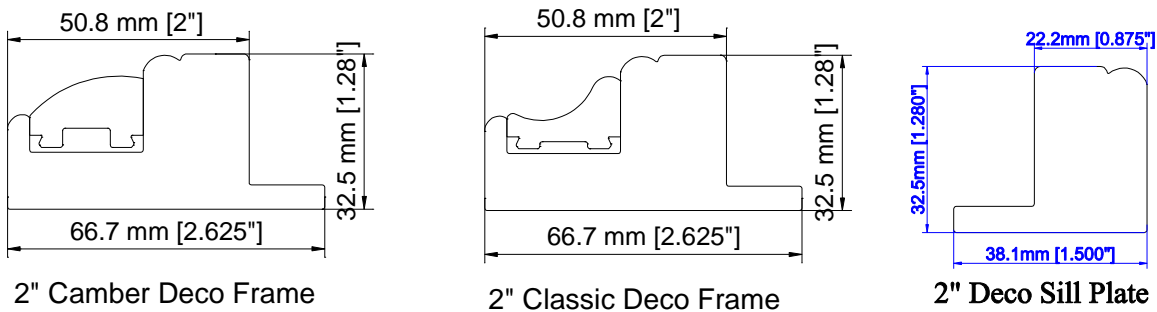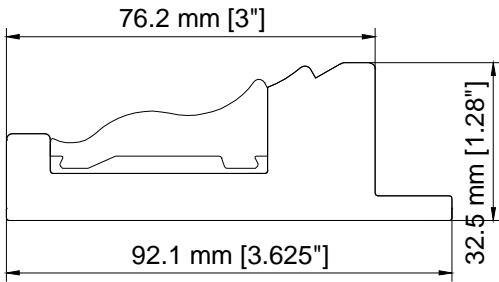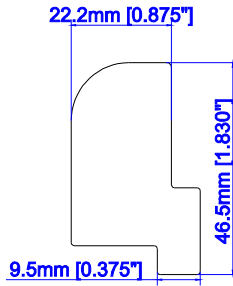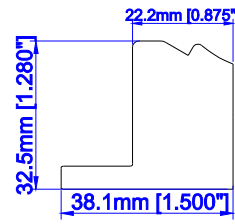
Ridge Deco Sill Plate

63.5 [2.5"]

35.7 [1.406"]

79.4 [3.125"]
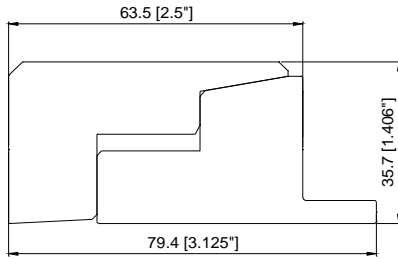
2.5" Mission Deco Frame

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

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

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

MFF Size

Face Width

Face Width

15.9 [0.625"]

15.9 [0.625"]
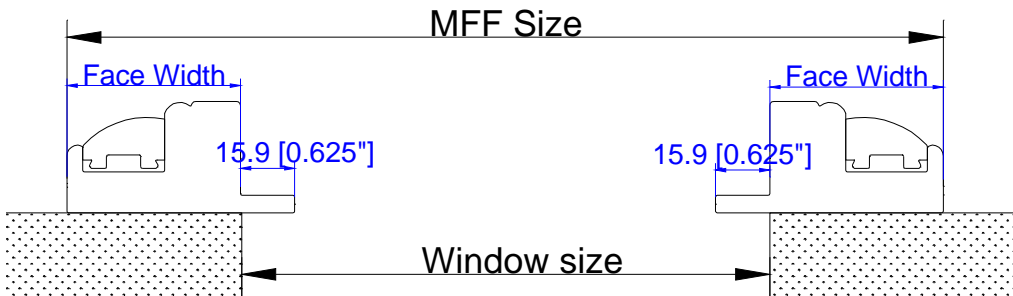
Window size

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

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

MFF Size

Face Width

Face Width

15.9 [0.625"]

15.9 [0.625"]

Frame Back Width

Frame Back Width

Window size

*Some surcharges apply
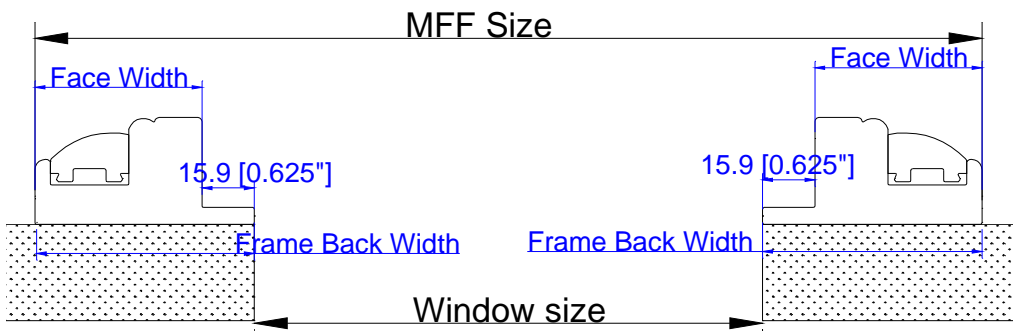
Frame Styles
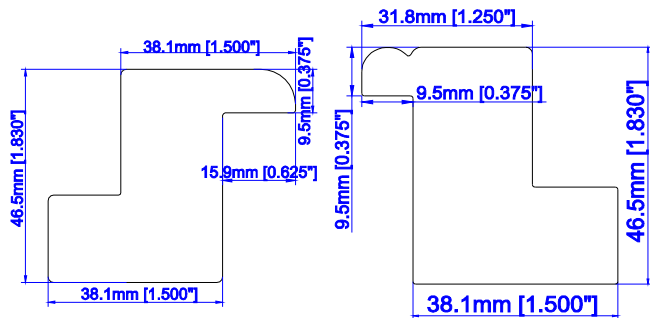
1 1/2" Bullnose Z Frame
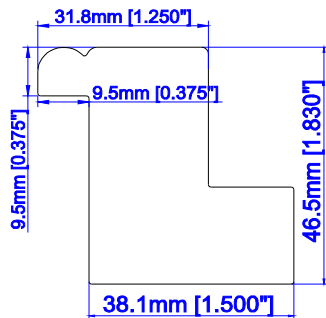
1 1/4" Beaded Z Frame
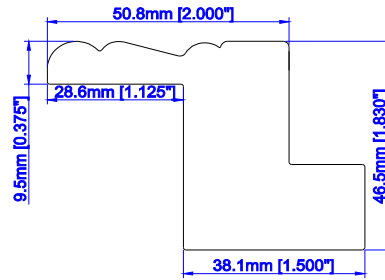
2" Bel Air Z Frame
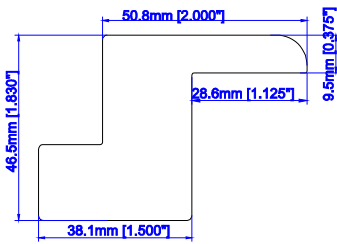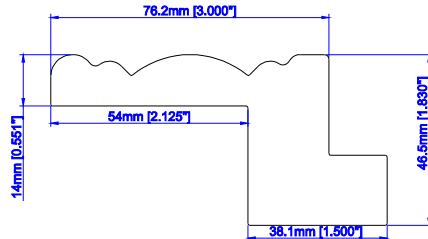
2" Bullnose Z Frame

3" Crown Z Frame
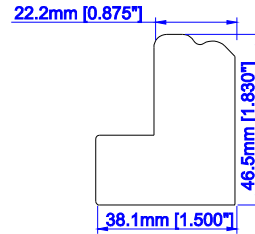
3" Crown Z Sill Plate

Also available

○ Custom extensions* up to 1" for Z frames

○ ½", 1" and 1½" standard extensions* and custom extensions* up to 2" for Deco frames

○ Custom extensions* up to 2" for hang strips (OM)
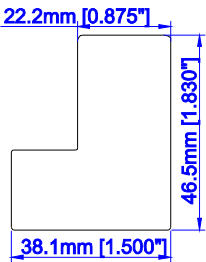
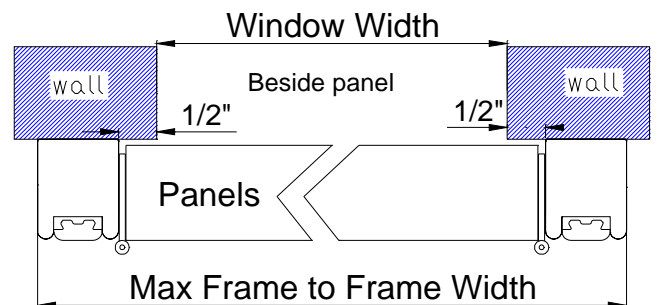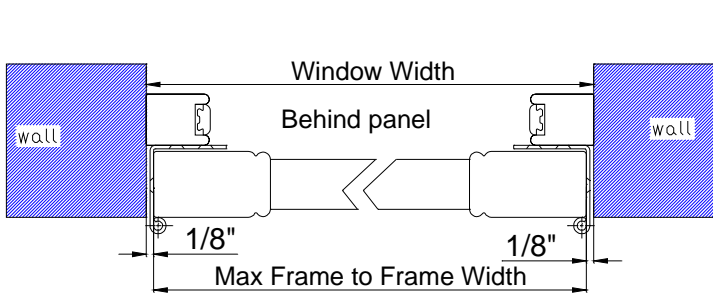Bullnose Z
1 1/4" Beaded Z
Sill Plate
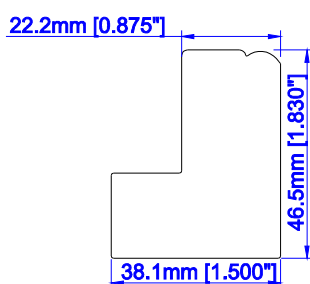
2" Bel Air Z Sill Plate
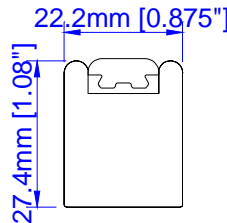
7/8" Vintage Hang Strip
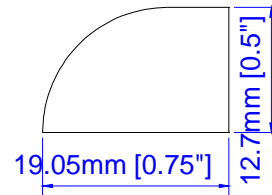
Quarter Round

Light Block

Window Width

Behind panel

1/8" 1/8"

Max Frame to Frame Width

Window Width

Beside panel

1/2" 1/2"

Panels

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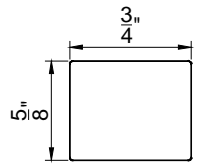
Note: Outside mounted hang strips, behind the panel, is not available for all 4 sides ("all around") or 3 sides inverted.

Standard Sill Plate:

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

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

The standard sill plate can be used on a specialty shape shutter on any side that is not curved.

Standard sill plate is not available for the following specialty shapes: Circle, Oval, French door, Hexagon and Octagon.

Note: The Standard Sill Plate is the only type of sill plate that can be used in combination with a bottom Sill Cap.
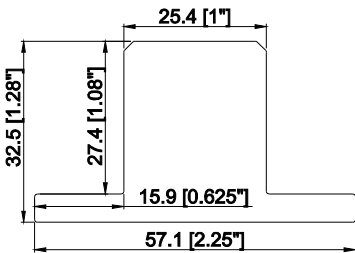
1" Chamfer T Post with 1/4"
Light Block (Deco)
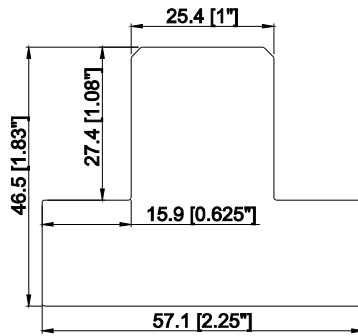
1" Chamfer T Post with 3/4"
Light Block (L/Z/HS)
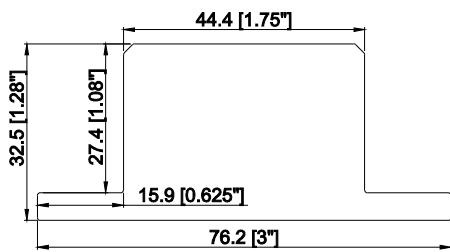
1.75" Chamfer T Post with 1/4"
Light Block (Deco)
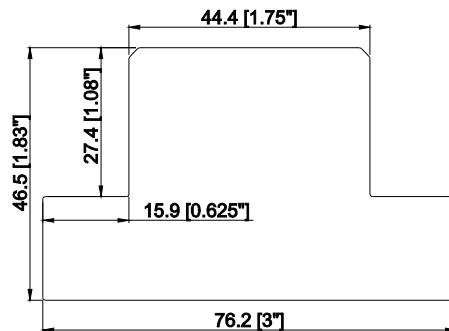
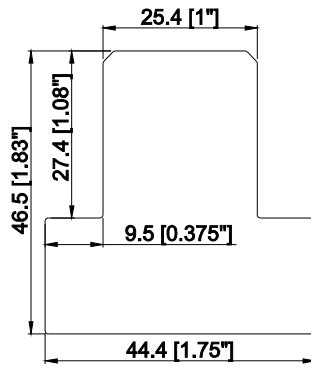1.75" Chamfer T Post with 3/4"
Light Block (L/Z/HS)

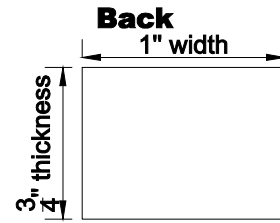# Frame Styles

Normandy Shutters

25.4 [1"]

32.5 [1.28"]

27.4 [1.08"]

9.5 [0.375"]

44.4 [1.75"]
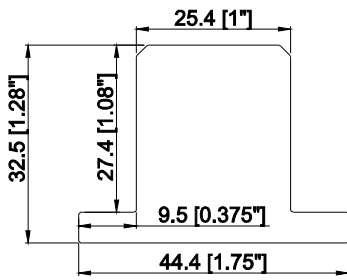
1" Chamfer T Post with 1/4" Thick x 3/8" Wide Light Block (Deco)

25.4 [1"]

46.5 [1.83"]

27.4 [1.08"]

9.5 [0.375"]

44.4 [1.75"]

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

Back

1" width

3" thickness

Front

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

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

○ Custom depth* up to 2" / width* up to 7½ for T Posts
  ▪ Size limits (7 1/2")
  ▪ That a surcharge applies and customers should refer to their shutter pricing
  ▪ Any limitations

Note: The 1"x3/4" Post (No Light Block) is only available for Direct Mount. And no hardware will be supplied to install it on the existing window opening.
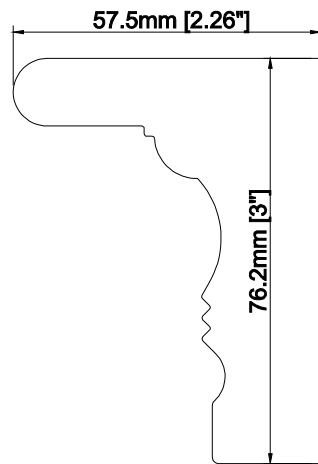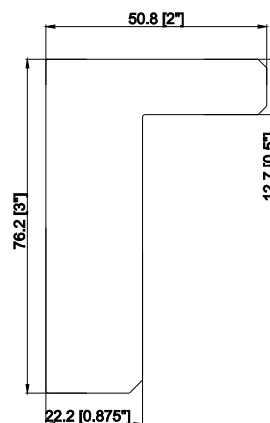
25.4mm [1"]

6.4mm [0.25"]

0.25"

Scribe Trim 1

19mm [0.75"]

6.4mm [0.25"]

0.25"
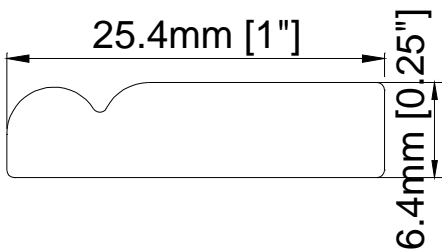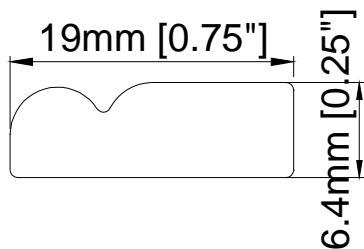
Scribe Trim 2

Sill Frames- For use where there is no existing sill

57.5mm [2.26"]

76.2mm [3"]

3" Deco Sill Frame

50.8 [2"]

76.2 [3"]

12.7 [0.5"]

22.2 [0.875"]

Mission sill Frame

Sill caps-Used to cover existing sills

Designer Sill Cap (D/HS)

Designer Sill Cap (L)

Designer Sill Cap (Z)

Mission Sill Cap (D/HS)

Mission Sill Cap (L)
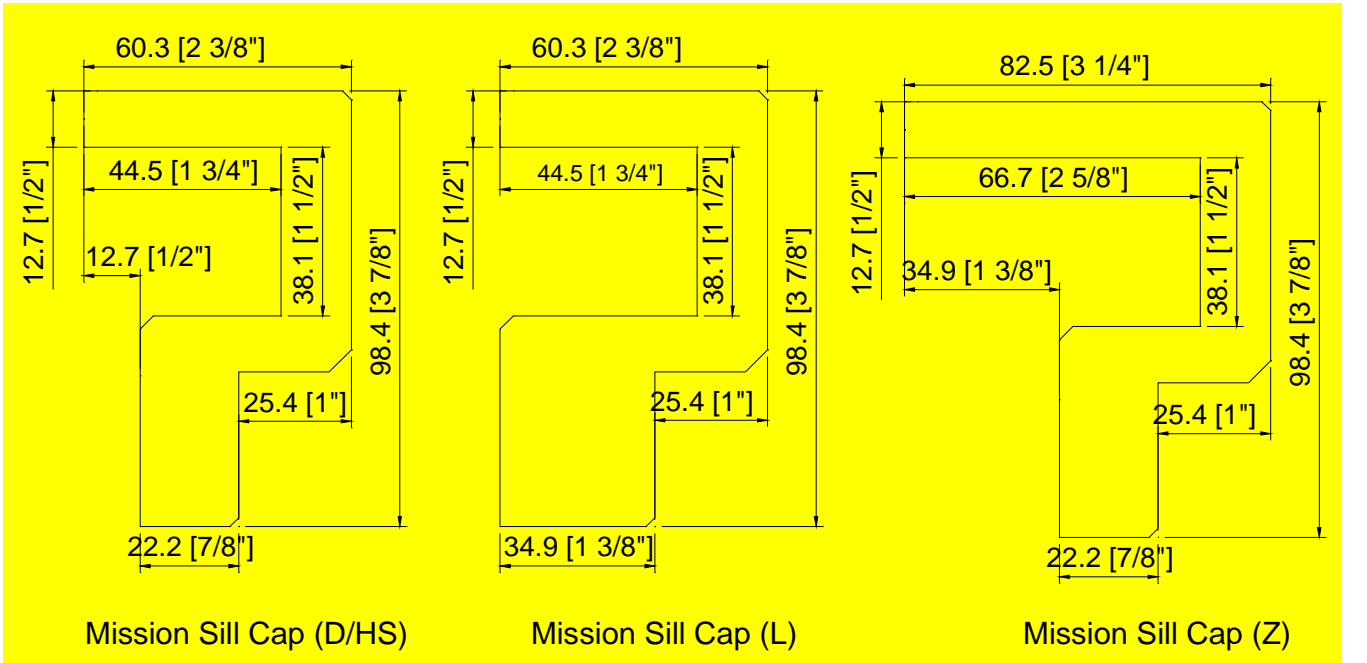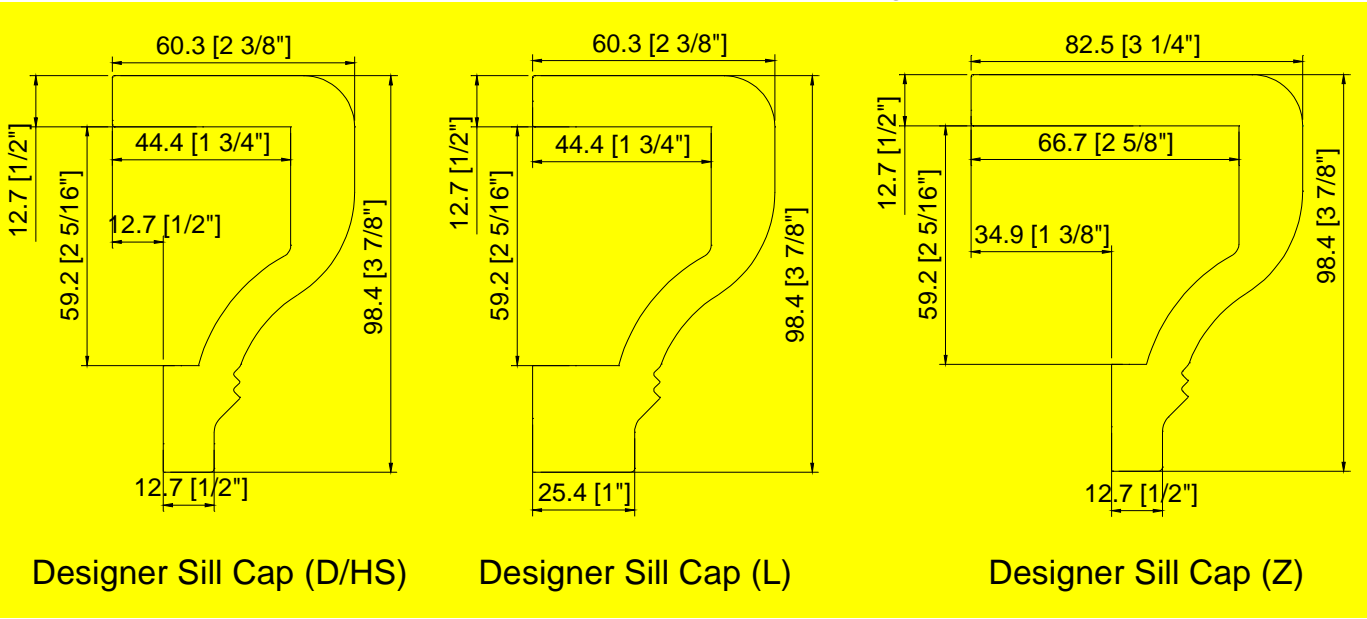
Mission Sill Cap (Z)

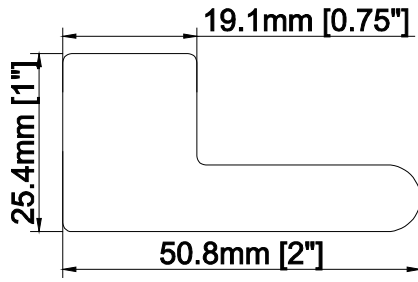Note: For Mission Sill Cap, the extended size at each side needs to be 1" at least.

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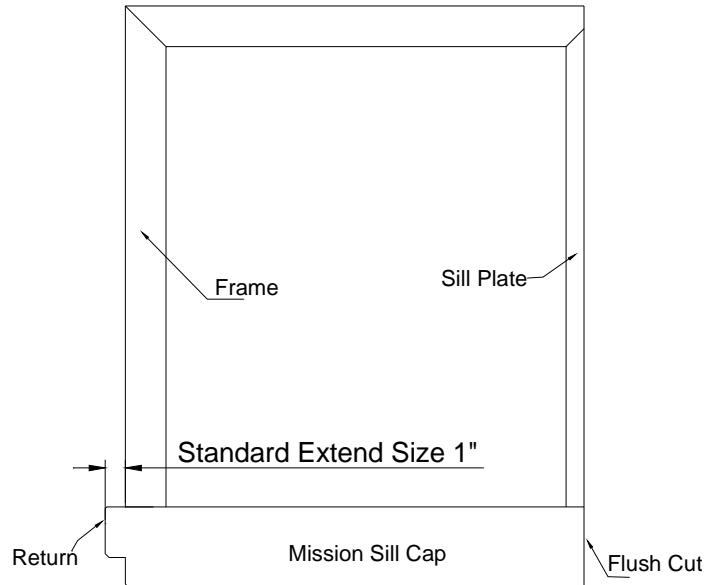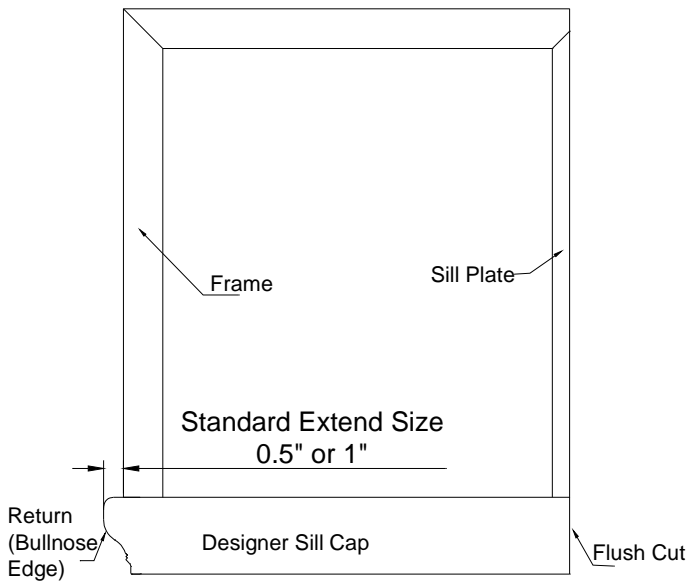
Please note that by **DEFAULT: the Designer Sill Cap will be flush-cut and will not have a Return (bullnose edge) on the side(s) of the shutter th at has a Sill Plate at the left and/or right side(s).**

Please note that by **DEFAULT: the Mission Sill Cap will be flush-cut and will not have a Return on the side(s) of the shutter that has a Sill Plat e at the left and/or right side(s).**
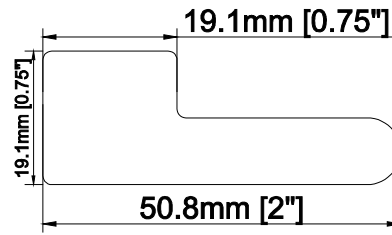
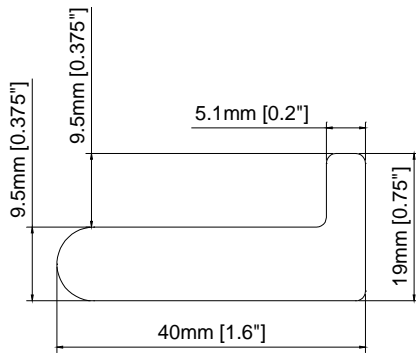| Left side frame situation	Right side frame situation	judge extend size on each side for Designer Sill Cap & Mission Sill Cap	Notes
Frame	Frame	Calculation= (Existing sill width + 0.625" x 2 - MFF width) / 2	When the customer indicates the existing sill width for the Designer Sill Cap, and the custom extended sill width is less than the standard: ½" extend on each side (after calculation), then the standard ½" extend on each side will be used.
Frame	Sill Plate	Calculation= Existing sill width + 0.625" - MFF width	
Sill Plate	Frame	Calculation= Existing sill width + 0.625" - MFF width	When the customer indicates the existing sill width for the Mission Sill Cap, and the custom extended sill width is less than the standard: 1" extend on each side (after calculation), then the standard 1" extend on each side will be used.
Sill Plate	Sill Plate	Close the Existing Sill Width field	Designer Sill Cap & Mission Sill Cap will be flush cut on both ends

*Some surcharges apply

Frame Styles

Sill Plates- Used with existing sills

19.1mm [0.75"]
25.4mm [1"]
50.8mm [2"]

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

19.1mm [0.75"]
19.1mm [0.75"]
50.8mm [2"]

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

9.5mm [0.375"]
9.5mm [0.375"]
5.1mm [0.2"]
19mm [0.75"]
40mm [1.6"]

1.6" Sill Plate with 3/8" Light Block

5.1mm [0.2"]
15.9mm [0.625"]
25.4mm [1"]
9.5mm [0.375"]
40mm [1.6"]
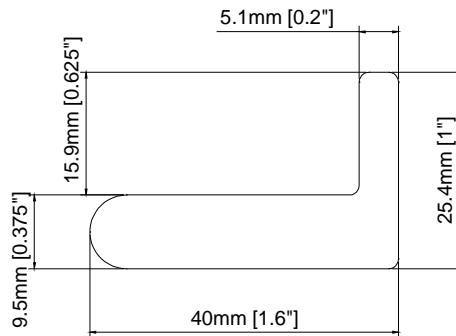
1.6" Sill Plate with 5/8" Light Block

(All Deco & L frames with 1/4" light block)   (All Deco & L frames with 1/4" light block)

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

o   Regular shutters: Available for top sill and bottom sill on 2-sided and bottom sill on 3-sided;

o   3 sides Inverted frame: these sill options can be used at the top only.

o   Café shutters: Available for bottom sill;

o   Specialty shutters: Not available for shapes below:

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

Hexagon, Octagon, Circle, Oval;

Peaked w/ Horizontal Louvers, Peaked Sunburst and French door.

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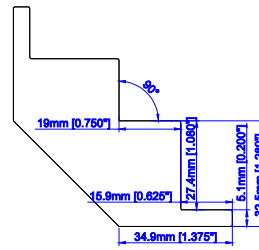
extended
sill plate

excess width   excess width

*Some surcharges apply
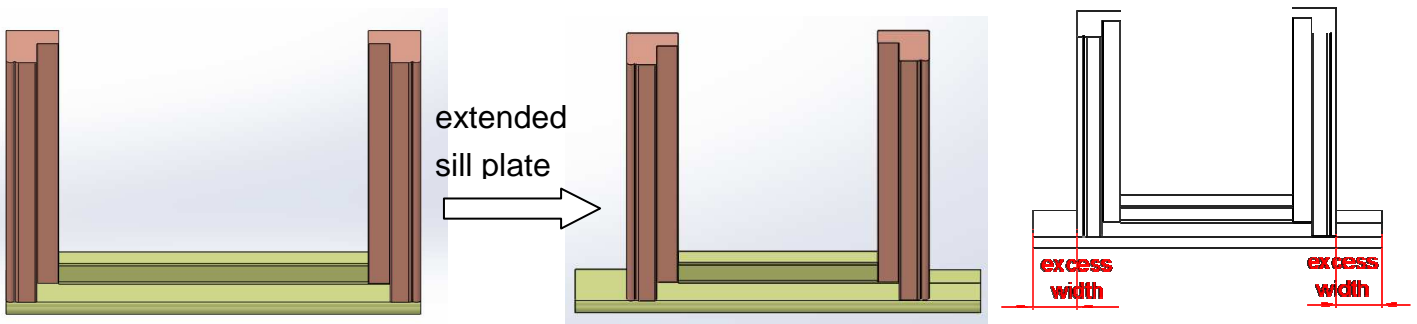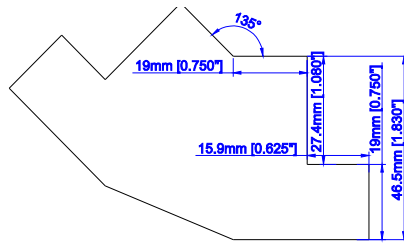
Frame Styles

Standard Corner & Bay Posts
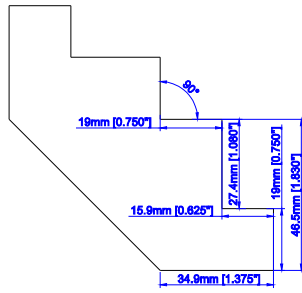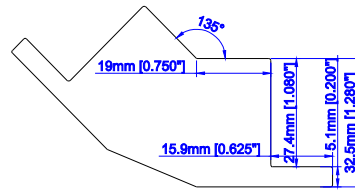

Corner Post with 3/4"
Light Block (L/Z/HS)

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

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


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

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

Also available

○ Custom angle bay posts*

For bay window at 170 degree or above,

➤ 1" T Post with 3/8" light block will be used as Bay post;

➤ For Hang Strip (Behind Panel), bay post will be used.

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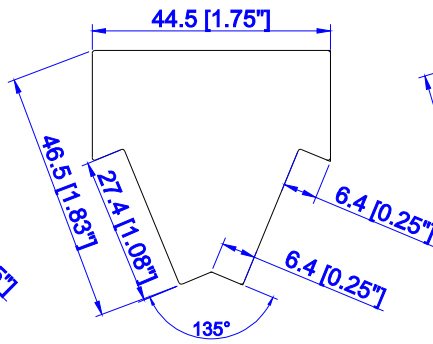

*Some surcharges apply
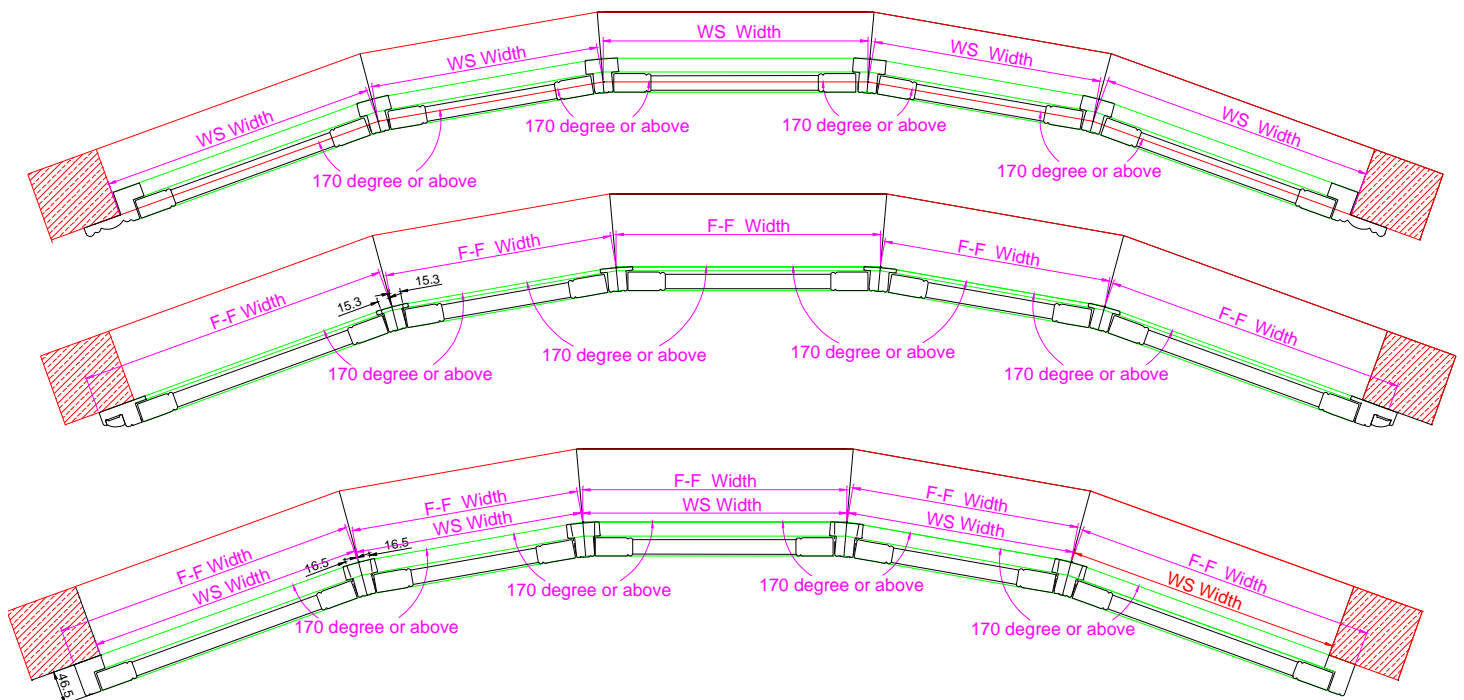
Frame Styles
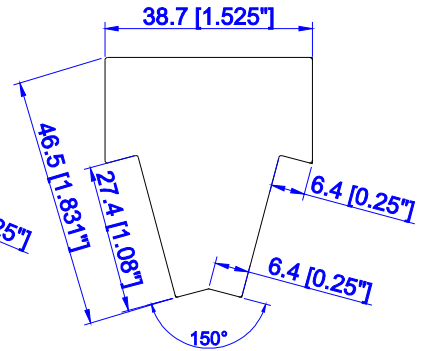
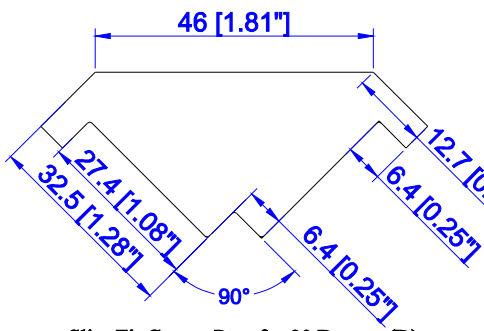*Normandy® Shutters*

Slim Fit Corner & Bay Posts
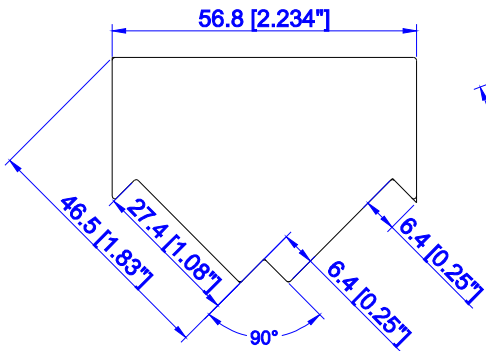
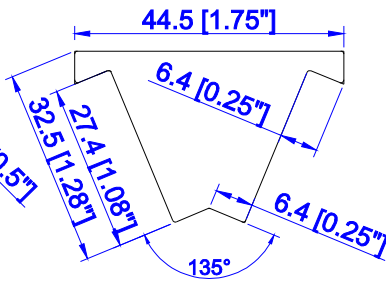Slim Fit Corner Post for
90 Degree (L/Z/HS)
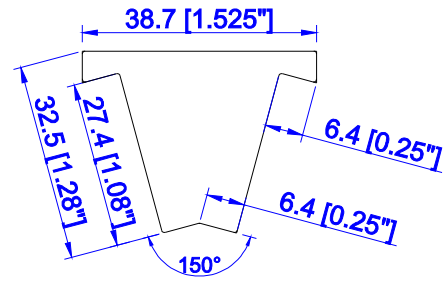
Slim Fit Bay Post for
135 Degree (L/Z/HS)

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

Slim Fit Corner Post for 90 Degree (D)

Slim Fit Bay Post for 135 Degree (D)

Slim Fit Bay Post for 150 Degree (D)

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

- Slim Fit Posts are available in 90, 135 and 150 Degrees only.

In order to better match corner windows / bay windows:

- **For non sample orders, please note that corner windows must have the same:**
    - Post Type (Standard or Slim Fit)
    - Color
    - Hinge Options
    - Louver Size
    - Frame Type
    - Mount Type
    - Extension
    - Sill Options
    - T-Post Options
    - Height
    - Stile Type and Profile
    - Tilt Type
    - Divider Rail Options
    - Double-Hung Options
    - Split Tilt Options

*Some surcharges apply

Frame Styles
- PerfectTilt Options

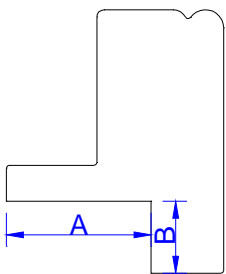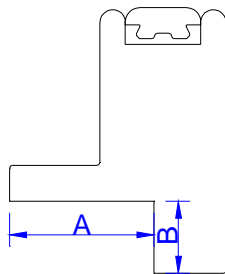● **For non sample orders, please note that bay windows must have the same:**
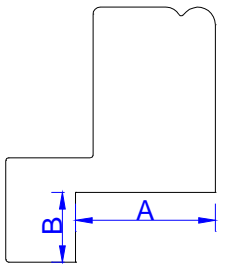- Post Type (Standard or Slim Fit)
- Color
- Hinge Options
- Louver Size
- Frame Type
- Mount Type
- Extension
- Sill Options
- T-Post Options
- Height
- Stile Type and Profile
- Tilt Type
- Divider Rail Options
- Double-Hung Options
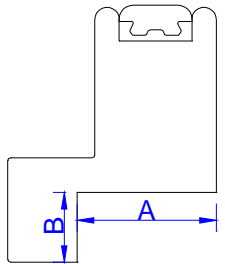- Split Tilt Options
- PerfectTilt Options

Notch Out
Beaded L Frame (A) *

Notch Out
Vintage L Frame (A) *

Notch Out
Beaded L Frame (B) *

Notch Out
Vintage L Frame (B) *

Limitation for the Notch Out Size:
A<=1"; B<=1/2" for Beaded/Vintage L frame;
A<=1"; B<=1" for Beaded/Vintage L frame
with 1/2" Buildout;
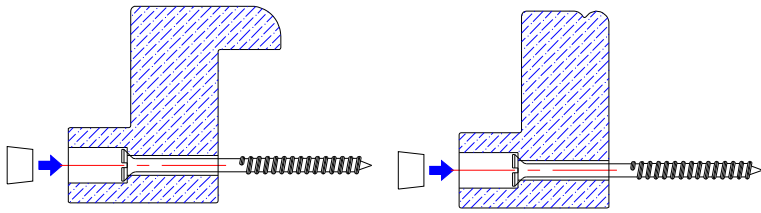A<=1"; B<=1 5/8" for Beaded/Vintage L frame
with 1" Buildout;

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

Note: Notch Out L frame is not available for L frames w/ ¼" light block.
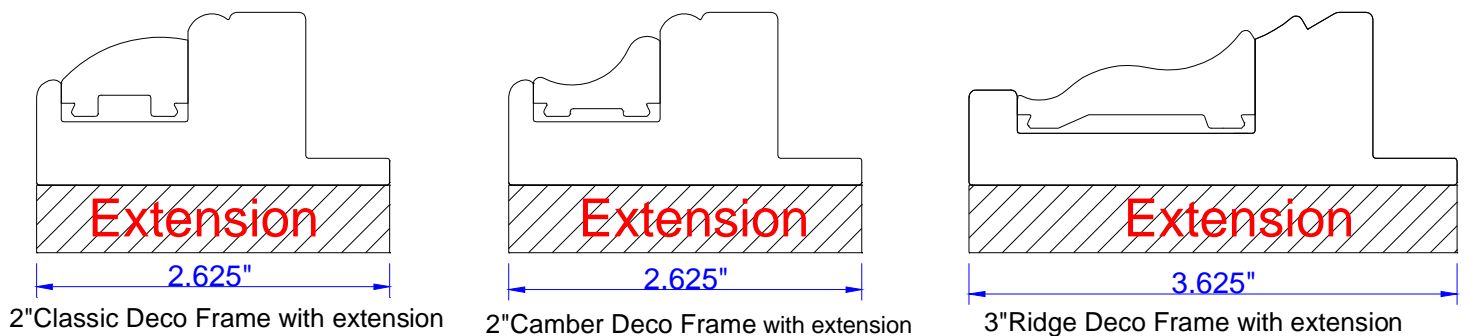
*Some surcharges apply

Frame Styles

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

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

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

Extension
2.625"
2"Classic Deco Frame with extension

Extension
2.625"
2"Camber Deco Frame with extension
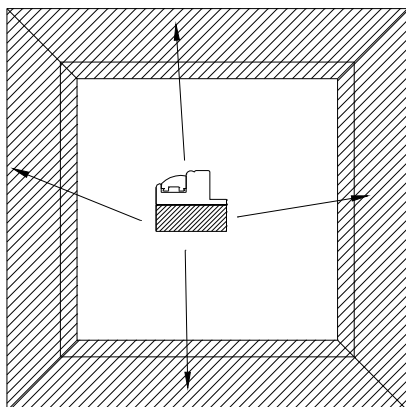
Extension
3.625"
3"Ridge Deco Frame with extension

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

Custom extensions* are available for the lips of all Z frames except Tilt out Z frames, when the extension thickness is more than 1", the extension will not be attached to the Z frames.

The extension can be on all sides of the frame, or individual sides can be selected if the extension is not needed on all sides.

See the following drawings below as examples:

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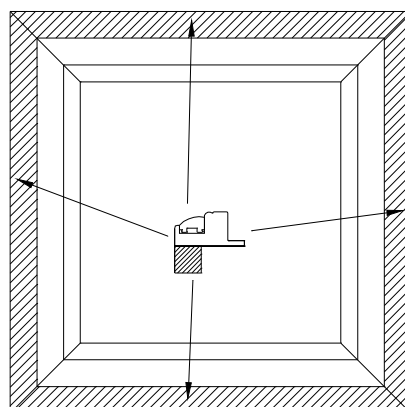
4 sides frames with xxx"wide extension, flush with outside edge of frame

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

*Some surcharges apply

Frame Styles

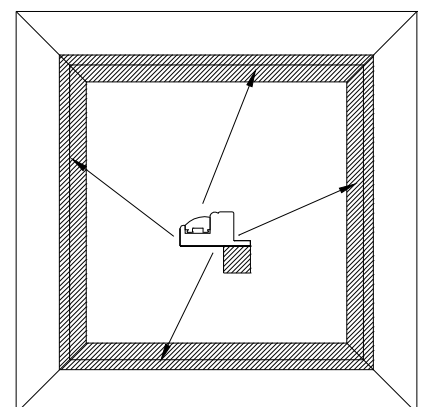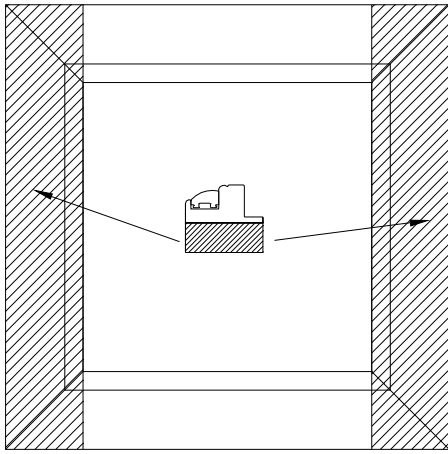Left and right frames with xxx" full extension
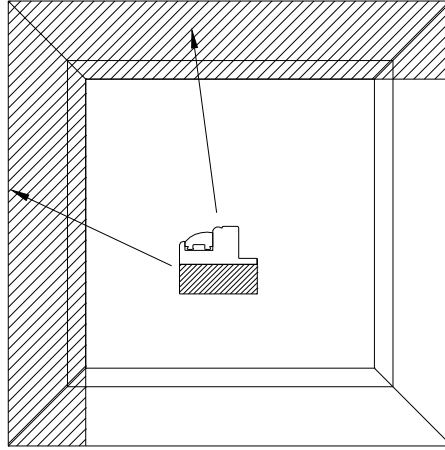
Left and top frames with xxx" full extension
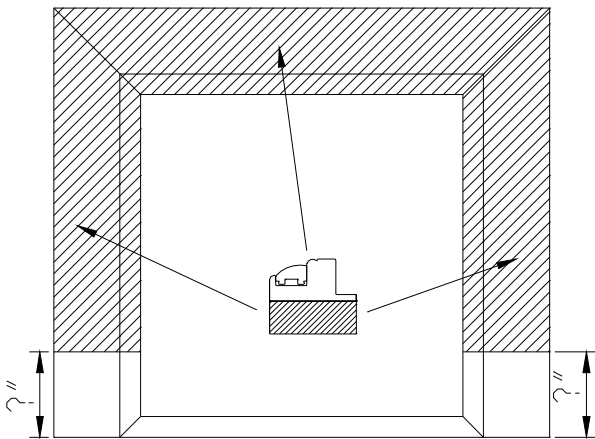
xxx" full extension of left and right frames
start from ?", no extension on bottom frame

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

Frame Styles

- ## Standard Filler Strips (width x depth):

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

Note:

1. The width or depth of Custom filler strip / Standard filler strip can't be less than 1/8".
2. The width or depth of Custom filler strip / Standard filler strip can't be greater than 7 7/8".
3. The width and depth of Custom filler strip / Standard filler strip can't be greater than 3 15/16" at the same time.

Uneven Panel Width:

Take Beaded L Frame outside mount as an example:
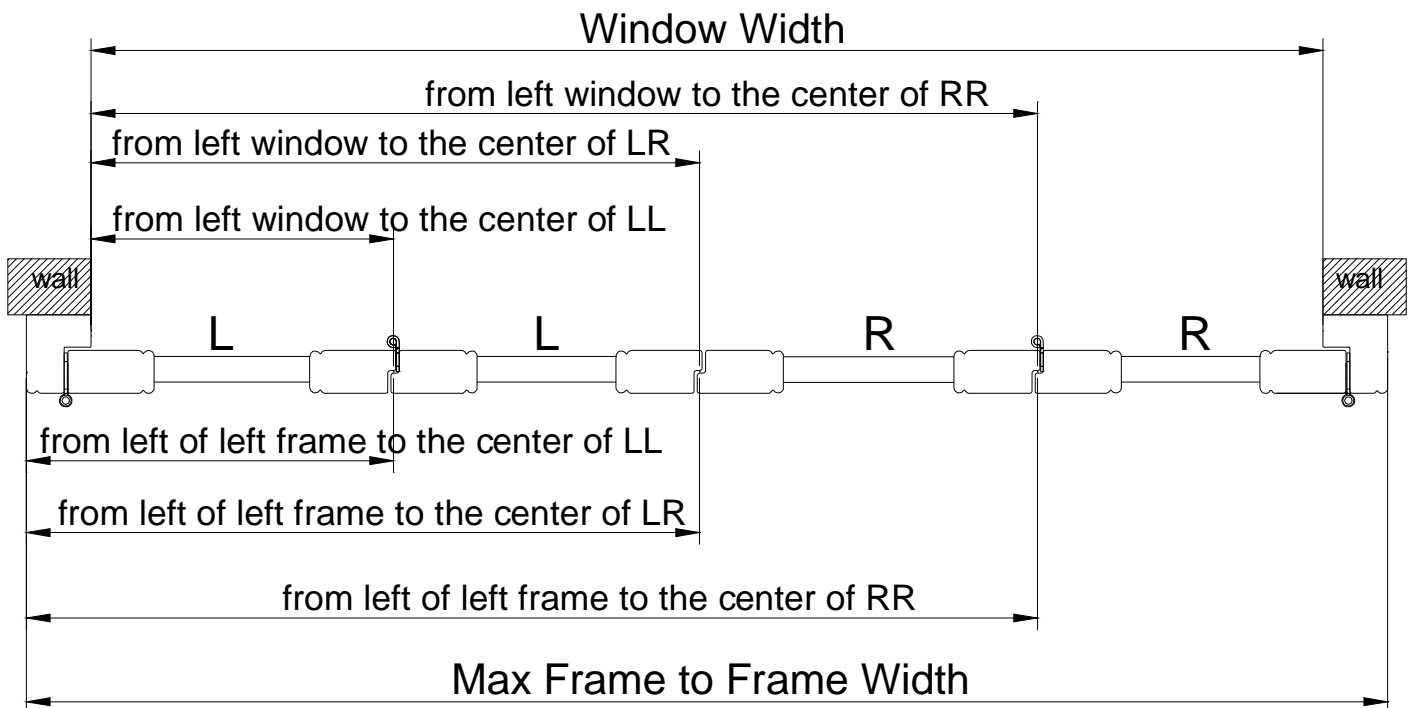
Default principle:

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

2. For Double Hung shutter with a horizontal T post, the face width of the horizontal T post defaults to 1 3/4".

General Product Specifications

Description	Minimum	Maximum
Single Panel Width (Regular)	6"	30" for 1.875" louver, 36" for 2.5" & 3" louver, 42" for 3.5" & 4.5" louvers
Single Panel Width (Bifold)	6"	26"
Single Panel Height	10"	132"
Shutter Width (Without T Post)	N/A	4x single panel width (bifold) + frame
Shutter Width (With T Post)	N/A	Unlimited **(For orders shipped by sea freight, frames longer than 142 7/8" will be spliced. For orders shipped by air freight, frames longer than 120" will be spliced.)**
Shutter Height	N/A	132" + frame

Occasional finger joint line may be visible in the frames and stiles.

Divider rail is required for panel heights over 78".
84" panel height limit without divider rail applies to the shutter types below, but does not apply to shutters with PerfectTilt G4 Motorization:
  ➢ Normandy French Door with OR without Cut-out (including type E&F), which should be installed on existing door, solid glass or sidelights instead of window opening.
  ➢ Normandy Bypass and bi-fold track shutters.

Standard divider rail size is 3", Custom Size (3"~7.875") Divider Rail is available with surcharge.
Please note the standard top/bottom rail size should be within 2.75"~6.5". For regular shutters, the step for the rail size is 1/8".

Material: Solid Color: Made from Hardwood; Stain Color: Made from Phoenix wood.

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

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

Side by Side / Match Line Number:

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

Match with Previous WO#:

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

- For Pure White color and custom colors, color can only be matched for up to 1 year from original order date
- For non-Pure White color and non-custom colors, color can only be matched for up to 5 months from original order date.
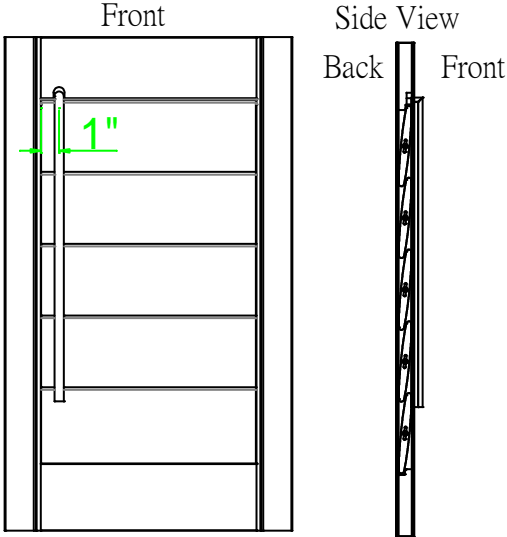
Tilt Rods
Standard Tilt Rod
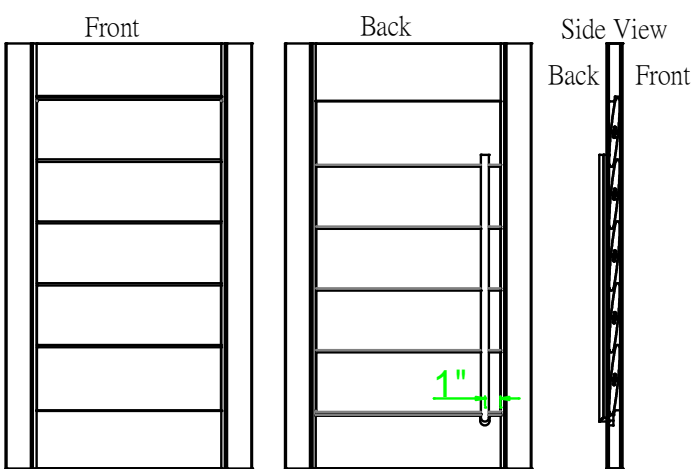**Default Location:** In the middle of the panel on front side (default).
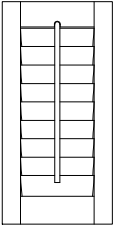
Offset Tilt Rod*
Default Location: On the front side of the panel and at 1" from the louver ends on the hinged side.
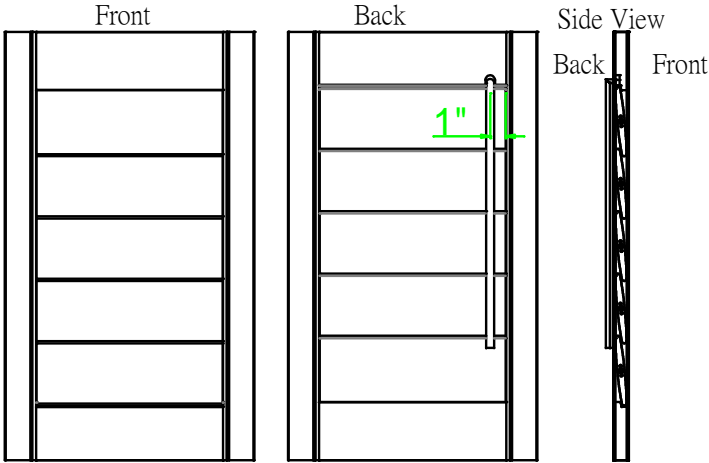**Optional location:** On the back side of the panel, 1" from the end of the louvers on the hinged side.

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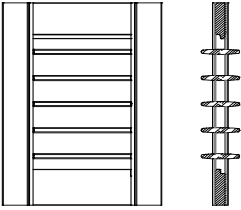the louvers dress up from front view

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

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

InvisibleTilt® *

Louver tilting system embedded within panel stile. It is not available for $1^7/_8$" louver. The tilting system is split when the number of louvers exceeds the limits as listed below:

Louver Size	Maximum Possible Louvers	Panel Height Range
2½"	24	54 3/4" – 57 1/4"
3"	19	54 1/4" – 57"
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;
To ensure split tilt is included, always specify on the order.

Split Tilt

When selected, the louvers are split equally by default unless a custom location is requested.
When split equally is selected, for odd numbers of louvers, the number of louvers operated by the bottom tilting system will be one more than the number of louvers operated by the top tilting system.


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

Window size:
— Measure from the bottom of the window to the top of the louver

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

*Some surcharges apply
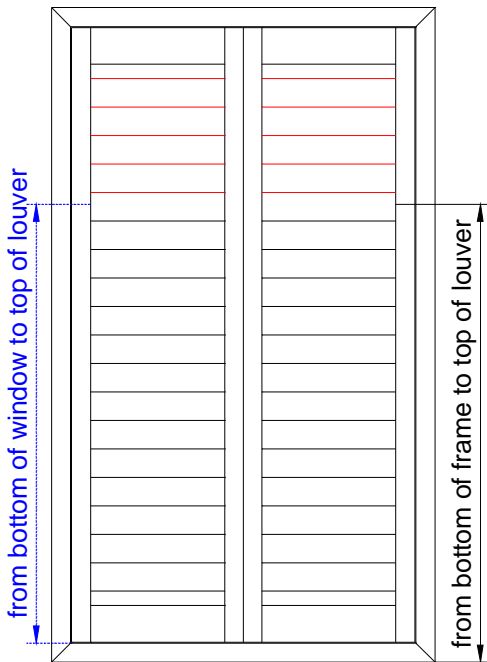
Split tilt allowable deviations

Louver Size	Allowable + Deviation
1 7/8"	3/4"
2½"	1"
3"	1 1/4"
3½"	1½"
4½"	2"

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

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

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

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

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

 *Some surcharges apply

Divider Rails

A divider rail is an extra rail in the middle of the panel.
Creates two sections in the panel so louvers can be operated independently.
Strengthens the panel and enhances structural integrity.
Divider rail is required for panel heights over 78".
For tall panels, the divider rail location should be placed within the panel height maximum, so that the remaining panel space above or below the divider rail is not taller than the panel height maximum. If the divider rail is placed too high or too low on the panel, then a 2nd divider rail may be required.
Custom Size(3"~7.875") Divider Rail is available with surcharge.
84" panel height limit without divider rail is for shutter types below:

- ➤ Normandy French Door with OR without Cut-out (including type E&F), which should be installed on existing door, solid glass or sidelights instead of window opening.
- ➤ Normandy Bypass and bi-fold track shutters

Specifications

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

Measurements:

- Window size:
  — Measure from the bottom of the window to the center of the divider rail.
- Max frame-to-frame:
  — Measure from the bottom of the frame to the center of the divider rail.
- Position:
  — Per customer's specification. However, the divider rail may be adjusted to a lower or higher position, within our allowable deviation, to ensure reinforcement and aesthetics of the shutter. When placing the order, please clearly specify if the divider rail position needs to line up with that of other shutter divider rails in the same room. Please also refer to the table below for the allowable deviation details.
- Between 2 divider rails / 2 split tilt rod locations / 1 divider rail location and 1 split tilt location, there needs to have at least two or more louvers for non-motorization shutters.
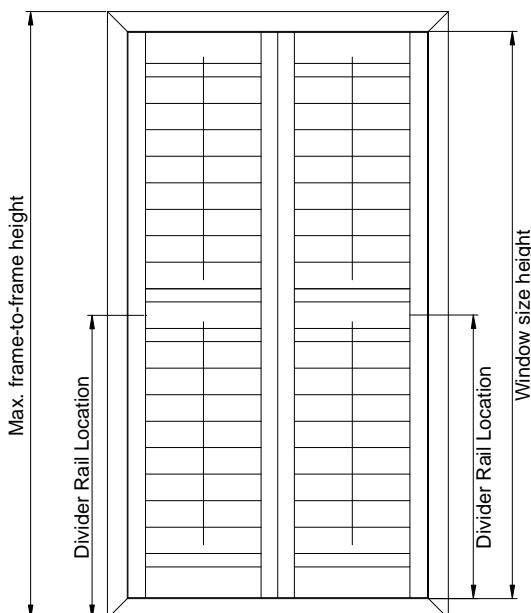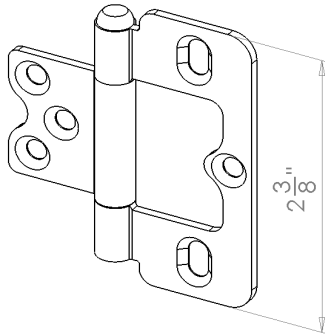

Divider rail allowable deviations

Louver Size	Allowable + Deviation
1 7/8"	3/4"
2½"	1"
3"	1 1/4"
3½"	1½"
4½"	2"

Normandy Shutters

Hardware

Hinges

2.375" Self-Mortise Hinge

2.375" Bi-fold Hinge

2 3/8"

Direct Mount 3" Hinge

**2.375" L Hinge**

2 3/8"

3"
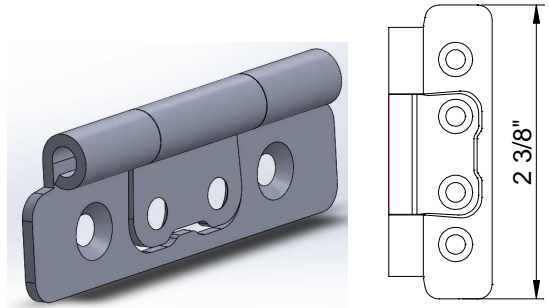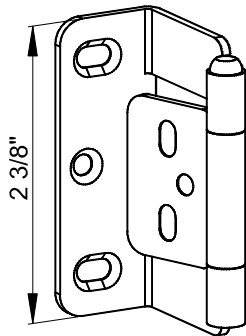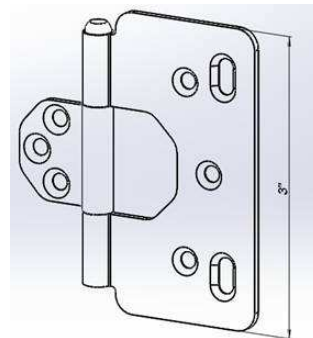
Hinges are available in:
Pure White, Silk White, Bisque, Pearl, Bright Brass, Antique Brass, Black, Nickel plated, Brushed Nickel , Stainless Steel* Crisp Linen, String, Sea Mist, Stone Gray, Brown Gray, Taupe Gray
While hinge colors of Crisp Linen, String, Sea Mist, Stone Gray, Brown Gray, Taupe Gray are not available for Direct mount 3" Hinges.

False hinges are not available.

Direct Mount 3" Hinge:
1. The hinge position of the direct mount 3" hinge will be different from that of the 2.375" ones. For shutters used both the 2.375" and the direct mount 3" hinge, the hinge position of the 2.375" ones will match that of the direct mount 3" hinge;
2. The hinge is only to install between the panel and the existing window. For other situation, 2.375" hinges will be used;

*Some surcharges apply

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

Cut-Out on the light block

Cut-Out when the hinged is installed.
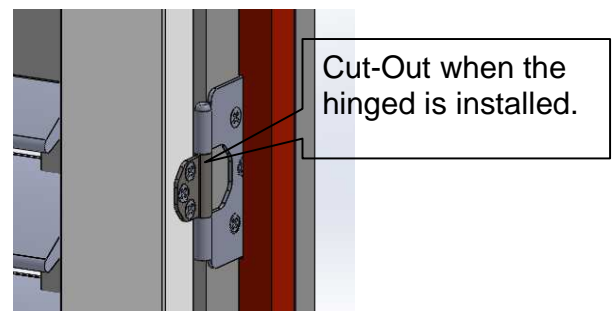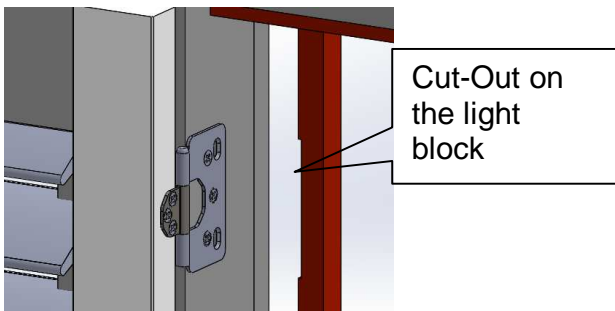
4. Direct Mount 3" Hinge is not suitable for drywall installations.
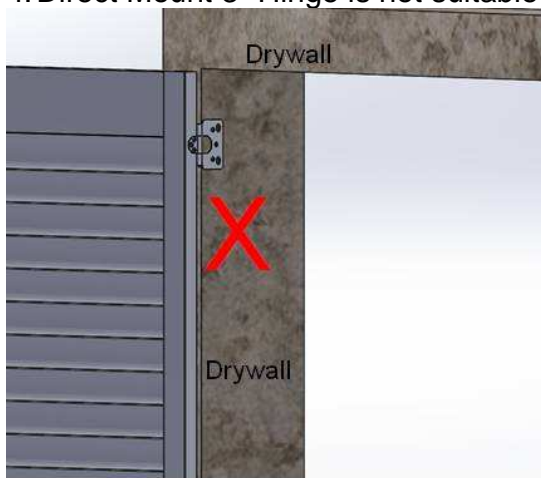
Drywall

Drywall

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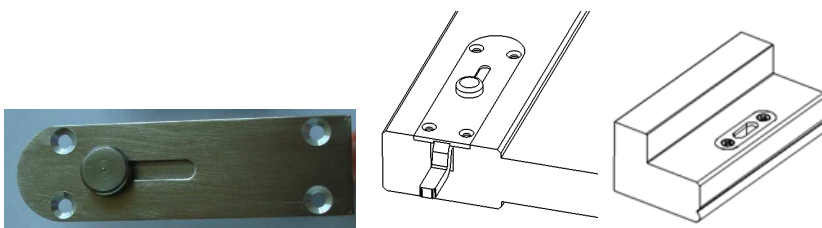**It's not recommended.**

wood
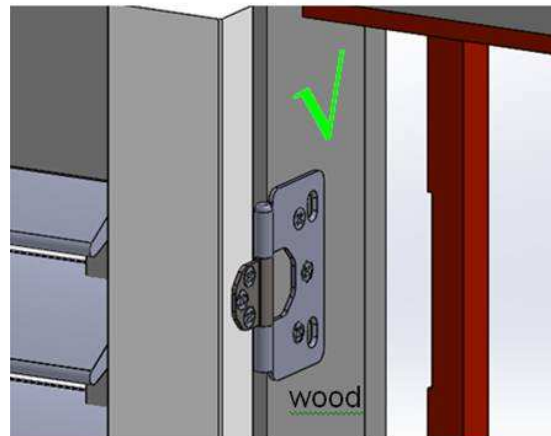
It's acceptable.

Panel Lock: (not available for 1.625" Stile)

Available Material: All

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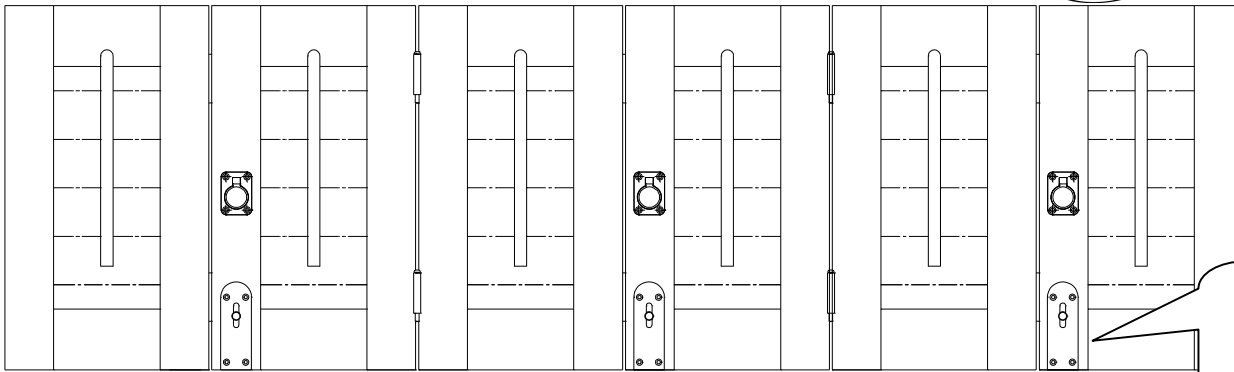

Position:
- Only available on Bottom for Track Shutters with Bottom Track.
- For Regular, available on Top/Bottom/both Top and Bottom.
- Café shutters can only have a panel lock at the bottom.
- Specialty shapes with a straight edge across the top or bottom may have a panel lock at top or bottom.

- Specialty shapes with the hinges on the bottom cannot have a panel lock at the bottom.

*Some surcharges apply

Specialty shapes that are able to have the hinges at the bottom are:
Eyebrow Sunburst, Elongated Eyebrow Sunburst,
Half Round Sunburst, Half Round with Horizontal Louvers,
Left Quarter Round Sunburst, Right Quarter Round Sunburst,
Peak Sunburst, Peak Sunburst with Horizontal Louvers,
Sunburst on Top with Divider Strip-top section,
Sunburst on Top with T Post-top section,
Arch Top Picture Window with Sunburst-top section,
Sunburst Louvers Center Arch with Quarter Round Side Panels-top section
Standard Unit with Horizontal Arch Center-top section.
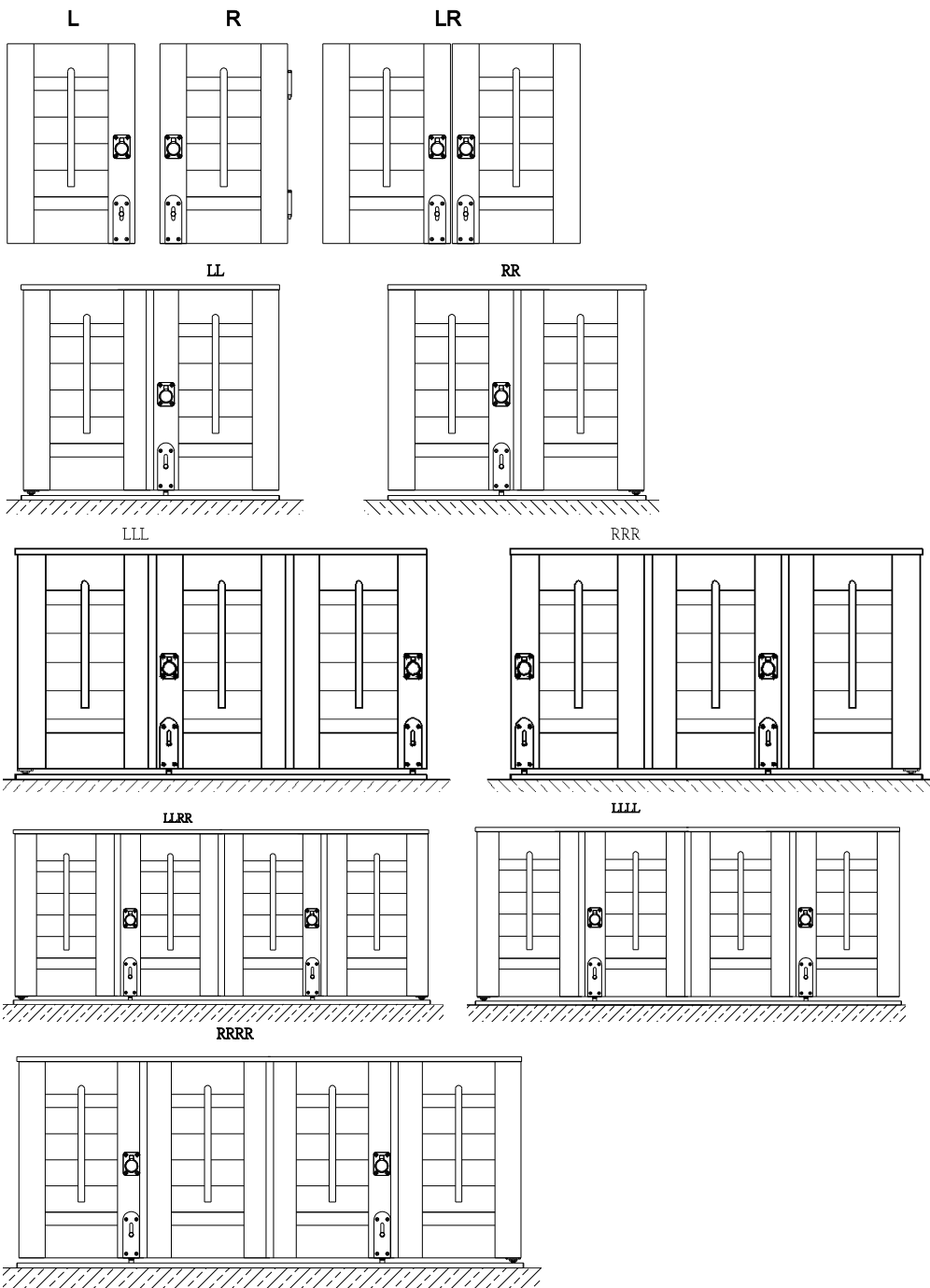
*Some surcharges apply

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).

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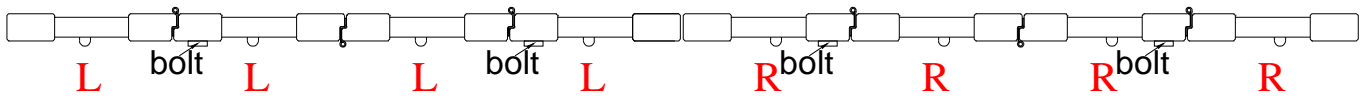
Ring pull: for easy opening and closing. (Not available for 1.625" Stile)

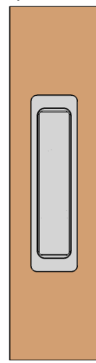Available in all shutter programs.
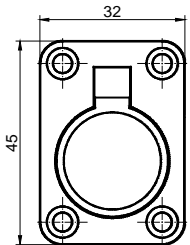
Handles (Not available for 1.625" Stile):

 Available in all shutter programs.

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

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


Front of stile   Back of stile

*Some surcharges apply

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

Recessed Handle (for Bypass track shutter)

Front of stile   Back of stile
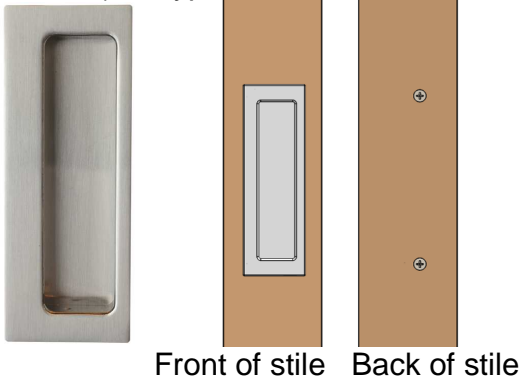
Ring pull & Curved Hidden Handle & Rectangle Hidden Handle location principle for Floating Panels:
1. When floating panel config is in pairs, it will be split into halves, the left will be for LL and the right will be for RR. So the ring pull / Curved Hidden Handle / Rectangle Hidden Handle location for FF/FF, FF/FF/FF/FF will be same as that of panel config as LL/RR, LL/LL/RR/RR.
2. When floating panel config is FF, the ring pull / Curved Hidden Handle / Rectangle Hidden Handle location will be same as that of panel config LL.
3. When floating panel config is FFFF/FF, the ring pull / Curved Hidden Handle / Rectangle Hidden Handle location will be same as that of panel config LLLL/RR.
4. When floating panel config is singular, it will be split into 3 sections, the left and mid sections are for LL and the right section is for RR. So the ring pull / Curved Hidden Handle / Rectangle Hidden Handle location for FF/FF/FF, FF/FF/FF/FF/FF will be same as that of LL/LL/RR, LL/LL/LL/RR/RR.

Recessed Handle location principle for Bypass track shutters:
Recessed Handle is not available for hinge connected stiles.
Panels on the rear track of an Open Bypass shutter that have panel light block or that have a connecting hinge are not able to have a recessed handle.
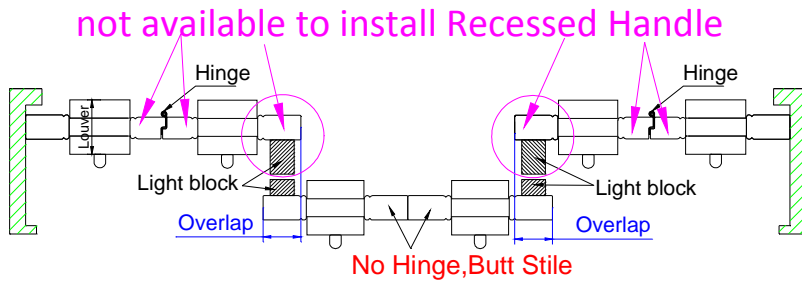
Take the following diagrams of the 4 panel side opener with Rabbet stile & 6 panel center opener with Rabbet stile as examples:

4 panels side open w/Rabbet stile
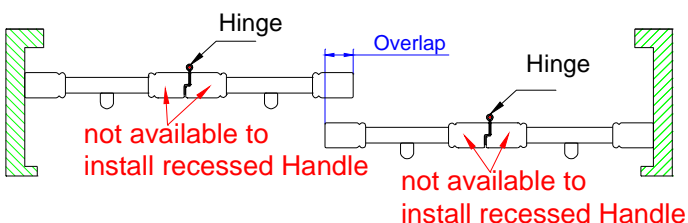
6 panels center open front w/Rabbet stile

not available to install Recessed Handle

Please note the ring pull / handles color will match with the hinge color.
When shutter order with Invisible hinge, the ring pull / handles color will match with the normal hinge color.
Please see the matching chart below:

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

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

● The ring pull colors and Handles colors are selectable.

Paint colors (Solid colors) (24)：

No.	Color ID	Color Name	2.375" Hinge color (Default)	Direct Mount 3" Hinge color (Default)	T post connector color (Default)	Ring pull color (Default)	Curved Hidden Handle / Recessed Handle / Rectangle Hidden Handle color (Default)	Panel Lock (Default)	Invisible hinge color	New Top & Bottom Tracks color (Default)	Dovetail Key Color (Default)
1	001	Pure White	Pure White	Pure White	Pure White	White	White	Pure White		Bright White	White
2	002	Extra White	Silk White	Silk White	Silk White	White	White	Pure White	Pearl Chrome Plated	Bright White	White
3	003	Silk White	Silk White	Silk White	Silk White	White	White	Pure White		Bright White	White
4	004	Bright White	Silk White	Silk White	Silk White	White	White	Pure White		Bright White	White

*Some surcharges apply

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

*Some surcharges apply

Stain colors (18) :

No.	Color ID	Color Name	2.375" Hinge color (Default)	Direct Mount 3" Hinge color (Default)	T post Connector color (Default)	Ring Pull color (Default)	Curved Hidden Handle / Recessed Handle / Rectangle Hidden Handle color (Default)	Panel Lock (Default)	Invisible hinge color	New Top & Bottom Tracks color (Default)	Dovetail Key Color (Default)
1	108	Rustic Gray	Nickel Plated	Nickel Plated	Nickel Plated	Brushed Nickel	Brushed Nickel	Brush Nickel plated		Bronze	Transparent
2	110	Limed White	Pearl	Pearl	Pearl	Pearl	Pearl	Pearl		Bronze	White
3	200	Natural	Antique Brass	Antique Brass	Nickel Plated	Antique Brass	Brushed Nickel	Brush Nickel plated		Bronze	Coffee
4	202	Golden Oak	Antique Brass	Antique Brass	Nickel Plated	Antique Brass	Brushed Nickel	Brush Nickel plated		Bronze	Coffee
5	205	Goldenrod	Antique Brass	Antique Brass	Nickel Plated	Antique Brass	Brushed Nickel	Brush Nickel plated		Bronze	Coffee
6	221	Black Walnut	Antique Brass	Antique Brass	Nickel Plated	Antique Brass	Brushed Nickel	Brush Nickel plated		Bronze	Black
7	227	Red Oak	Antique Brass	Antique Brass	Nickel Plated	Antique Brass	Brushed Nickel	Brush Nickel plated		Bronze	Coffee
8	229	Rich Walnut	Antique Brass	Antique Brass	Nickel Plated	Antique Brass	Brushed Nickel	Brush Nickel plated		Bronze	Coffee
9	230	Old Teak	Antique Brass	Antique Brass	Nickel Plated	Antique Brass	Brushed Nickel	Brush Nickel plated		Bronze	Coffee
10	237	Wenge	Antique Brass	Antique Brass	Nickel Plated	Antique Brass	Brushed Nickel	Brush Nickel plated	Pearl Chrome Plated	Bronze	Black
11	242	Auburn	Antique Brass	Antique Brass	Nickel Plated	Antique Brass	Brushed Nickel	Brush Nickel plated		Bronze	Coffee
12	246	Matte Black	Black	Black	Black	Black	Black	Black		Black	Black
13	248	Pretzel	Antique Brass	Antique Brass	Nickel Plated	Antique Brass	Brushed Nickel	Brush Nickel plated		Bronze	Coffee
14	250	Sumatra	Antique Brass	Antique Brass	Nickel Plated	Antique Brass	Brushed Nickel	Brush Nickel plated		Bronze	Coffee
15	252	Toffee	Antique Brass	Antique Brass	Nickel Plated	Antique Brass	Brushed Nickel	Brush Nickel plated		Bronze	Black
16	254	Driftwood	Nickel Plated	Nickel Plated	Nickel Plated	Brushed Nickel	Brushed Nickel	Brush Nickel plated		Metallic Gray	White

*Some surcharges apply

No.	Color ID	Color Name	2.375" Hinge color (Default)	Direct Mount 3" Hinge color (Default)	T post Connector color (Default)	Ring Pull color (Default)	Curved Hidden Handle / Recessed Handle / Rectangle Hidden Handle color (Default)	Panel Lock (Default)	Invisible hinge color	New Top & Bottom Tracks color (Default)	Dovetail Key Color (Default)
17	255	Silver Gray	Nickel Plated	Nickel Plated	Nickel Plated	Brushed Nickel	Brushed Nickel	Brush Nickel plated		Metallic Gray	Transparent
18	862	French Oak	Antique Brass	Antique Brass	Nickel Plated	Antique Brass	Brushed Nickel	Brush Nickel plated		Bronze	Coffee

Premium Colors (6) :

No.	Color ID	Color Name	2.375" Hinge color (Default)	Direct Mount 3" Hinge color (Default)	T post Connector color (Default)	Ring Pull color (Default)	Curved Hidden Handle / Recessed Handle / Rectangle Hidden Handle color (Default)	Panel Lock (Default)	Invisible hinge color	New Top & Bottom Tracks color (Default)	Dovetail Key Color (Default)
1	1003	White Matte	Silk White	Silk White	Silk White	White	White	Pure White		Metallic Gray	White
2	1109	Silk Gray	Nickel Plated	Nickel Plated	Nickel Plated	Brushed Nickel	Brushed Nickel	Brush Nickel plated		Bronze	Transparent
3	1111	Granite Gray	Antique Brass	Antique Brass	Nickel Plated	Antique Brass	Brushed Nickel	Brush Nickel plated	Pearl Chrome Plated	Bronze	Transparent
4	1203	Black	Antique Brass	Antique Brass	Nickel Plated	Antique Brass	Brushed Nickel	Brush Nickel plated		Bronze	Transparent
5	1204	Ebony	Antique Brass	Antique Brass	Nickel Plated	Antique Brass	Brushed Nickel	Brush Nickel plated		Bronze	Transparent
6	1502	Teak	Antique Brass	Antique Brass	Nickel Plated	Antique Brass	Brushed Nickel	Brush Nickel plated		Bronze	Coffee

** All Premium Colors will have a surcharge.

- When the bottom track colors are bright white and metallic gray, the default spring loaded guide color will be white; When the bottom track colors are bronze and black, the default spring loaded guide color will be coffee.
- Please note that the color options for pin/tension gears are White and Coffee. For custom color orders please select either White or Coffee when placing an order.
- For custom color orders, the supplied dovetail keys will match the selected pin/tension gear color (White or Coffee).
- For custom color orders, please select the desired T-post connector color from the available options when placing an order.
- For custom color orders with Invisible Hinge, but without Bifold hinge, please select the desired magnet catch (round magnet catch or sill magnet catch or 8.5x25mm magnet catch) color from the available options when placing an order.

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

Ring pull

Above Bottom Rail

Divider Rail

3/4"

Above Divider Rail
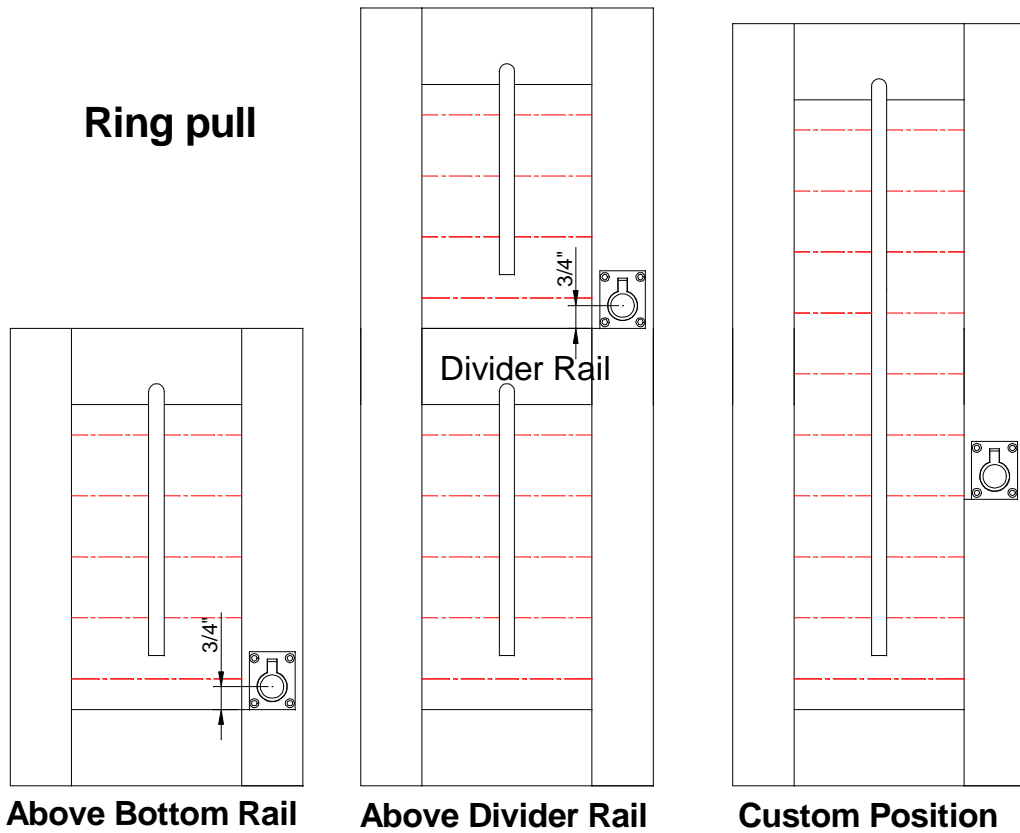
Custom Position

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

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

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

Ring pull
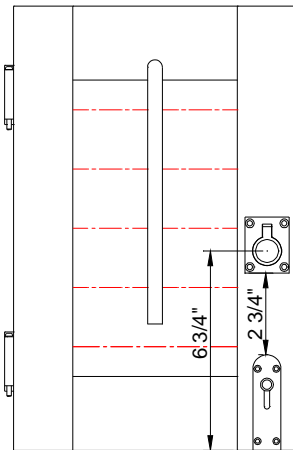
Above Panel Lock **Above Divider Rail** **Custom Position**

Divider Rail

3/4"

6:3/4"

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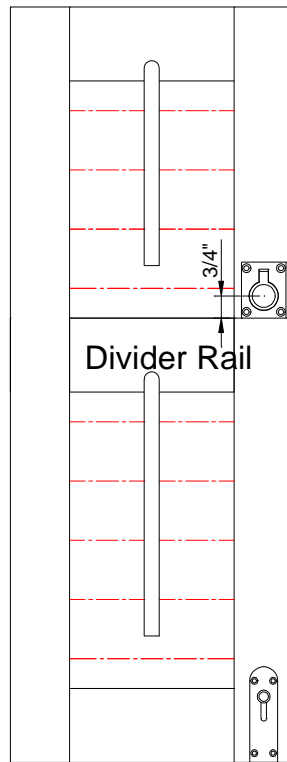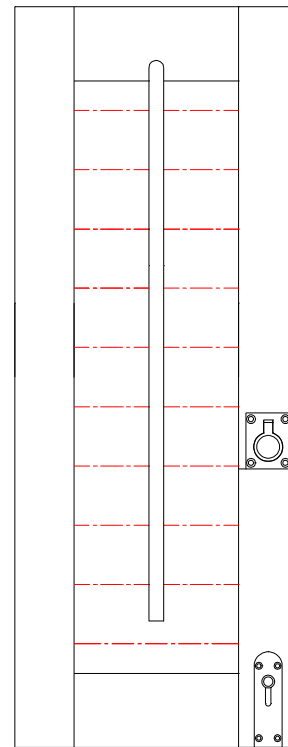
Position:
A. 2 3/4" Above Panel Lock
B. Above Divider Rail / Center of panel
C. Custom Position

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

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

Curved Hidden Handle
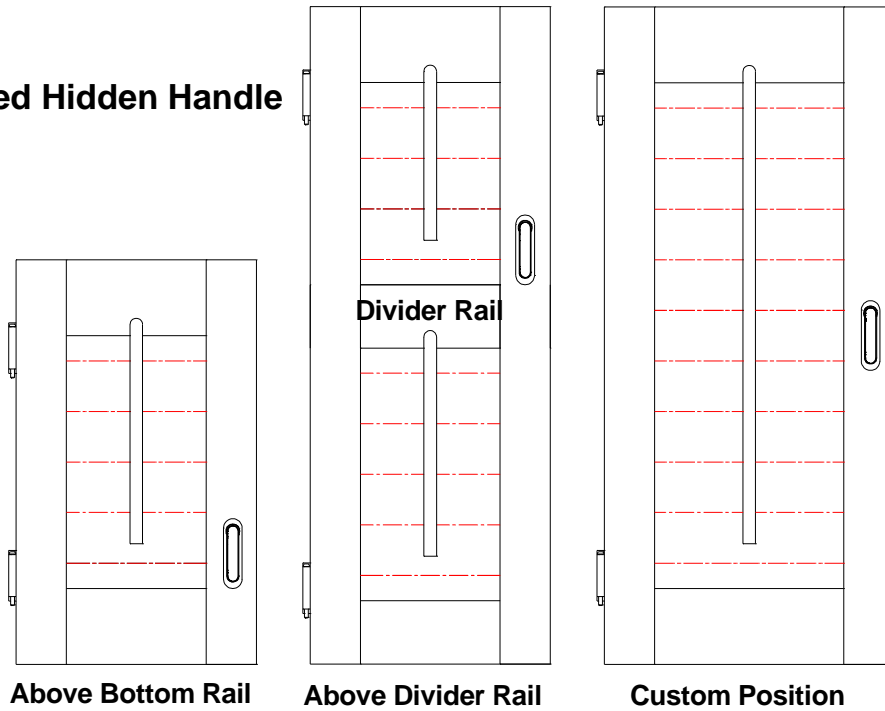
Divider Rail

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

Rectangle Hidden Handle

Divider Rail

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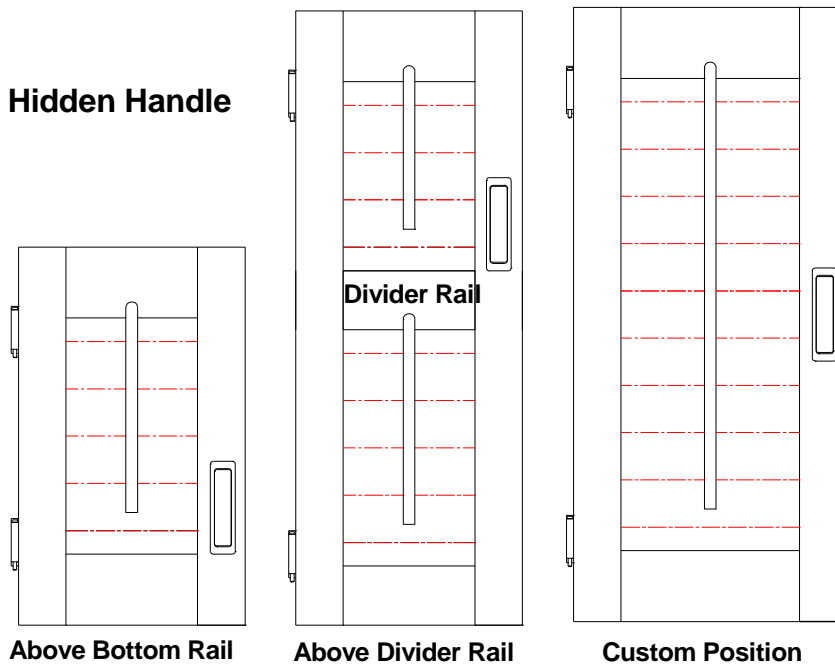
Position:
A. Above Bottom Rail
B. Above Divider Rail / Center of panel
C. Custom Position

Recessed Handle
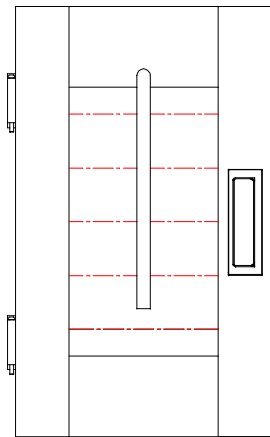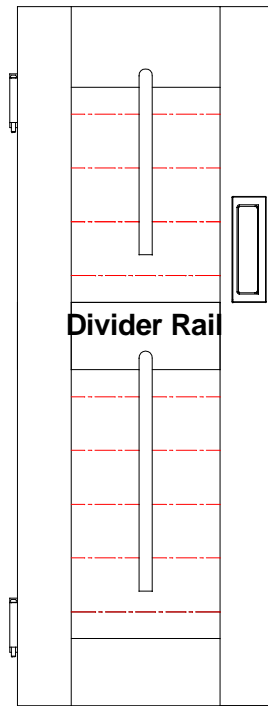
Divider Rail

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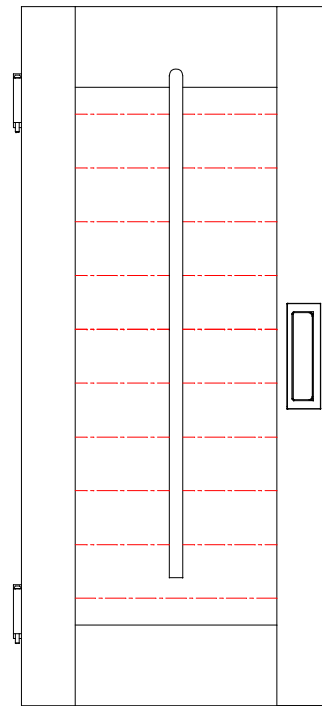
Position:
A. Center of panel
B. Above Divider Rail
C. Custom Position

Curved Hidden Handle
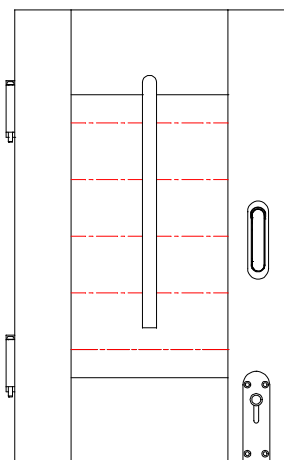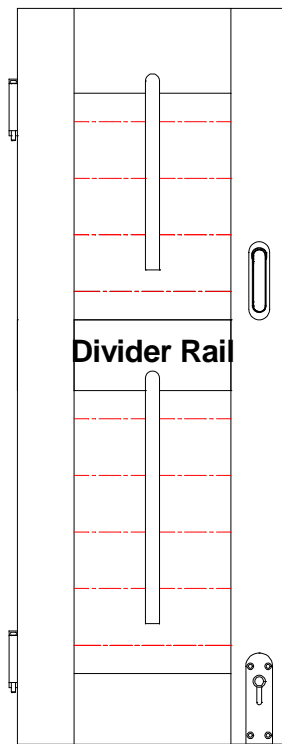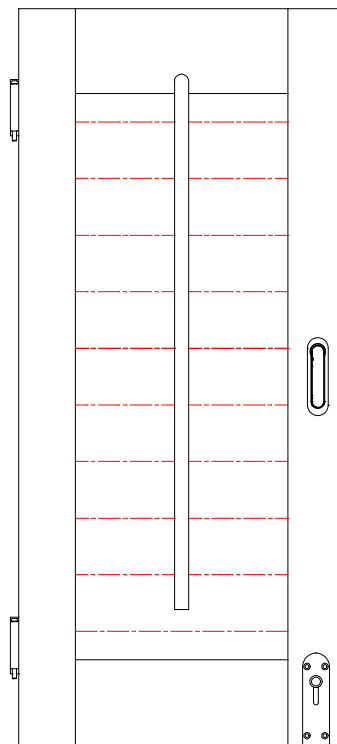
Divider Rail

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

Rectangle Hidden Handle

Divider Rail

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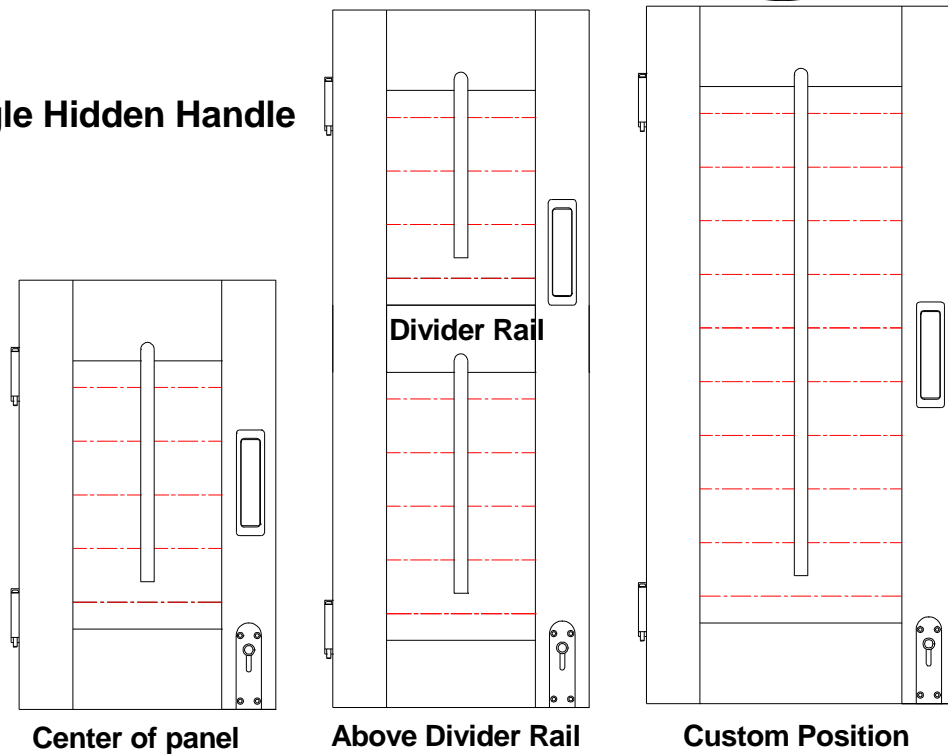
Position:
A. Center of panel
B. Above Divider Rail
C. Custom Position

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

Invisible Hinge*:

1. Invisible hinge is not available for Multifold panels.
2. Invisible hinge can only be between the panel & frame/T post, connections from panel to panel will use a regular hinge.
3. Color Option: Only available for Pearl Chrome Plated.
4. The invisible hinge is not available with the following specialty shapes: Circle w/ Horizontal Louvers, Circle sunburst, Oval w/ horizontal louvers, Type E 60 degree French door cutout and Type F rectangular French door cutout.

*Some surcharges apply

Frame Options	Hinge	Notes
2'' Camber Deco Frame	Y	/
2'' Classic Deco Frame	Y	/
2.5" Mission Deco Frame	N	/
3" Ridge Deco Frame	N	/
Vintage L Frame W / 1/4" Light Block	N	/
Vintage L	N	/
Vintage L Frame w/ 1/2" Buildout	N	/
Vintage L Frame w/ 1" Buildout	N	/
Beaded L w 1/4"light block	Y	/
Beaded L	Y	/
Beaded L Frame w/ 1/2" Buildout	Y	/
Beaded L Frame w/ 1" Buildout	Y	/
Tilt out Z Frame	N	/
1.25" Beaded Z Frame	Y	/
1.5" Bullnose Z Frame	Y	/
2" Bullnose Z Frame	Y	/
2" Bel Air Z Frame	Y	/
3" Crown Z Frame	N	/
7/8" Vintage Hang Strip	N	/
1" Chamfer T-Post w/ 1/4" Light Block(for Deco)	Y	Only available with hinge on one side, for example, LTL is available, but RTL is not.
1" Chamfer T-Post w/3/4" Light Block(for L/Z/HS)	Y	
1" Chamfer T-Post w/ 1/4" thick 3/8" wide Light Block(for Deco)	Y	
1" Chamfer T-Post w/3/4" thick 3/8" wide Light Block(for L/Z/HS)	Y	
1 3/4" Chamfer T-Post w/1/4" Light Block(for Deco)	Y	Available with hinge on BOTH sides, for example, RTL.
1 3/4" Chamfer T-Post w/3/4" Light Block(for L/Z/HS)	Y	
Corner Post w/1/4" Light Block(for Deco)	Y	/
Corner Post w/3/4" Light Block(for L/Z/HS)	Y	/

*Some surcharges apply

Bay Post w/1/4" Light Block(for Deco)	Y	/
Bay Post w/3/4" Light Block(for L/Z/HS)	Y	/
Slim Fit Corner Post for 90 Degree(L/Z/HS)	N	
Slim Fit Corner Post for 90 Degree(D)	N	
Slim Fit Bay Post for 135 Degree(L/Z/HS)	N	
Slim Fit Bay Post for 135 Degree(D)	N	
Slim Fit Bay Post for 150 Degree(L/Z/HS)	N	
Slim Fit Bay Post for 150 Degree(D)	N	

Invisible Hinge Qty

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

Preinstallation:

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

Note: If Custom T-posts need to install Invisible Hinge, the size of Custom T-post face width plus one side light block width can't be more than 4 5/8"; Please see drawing for reference.
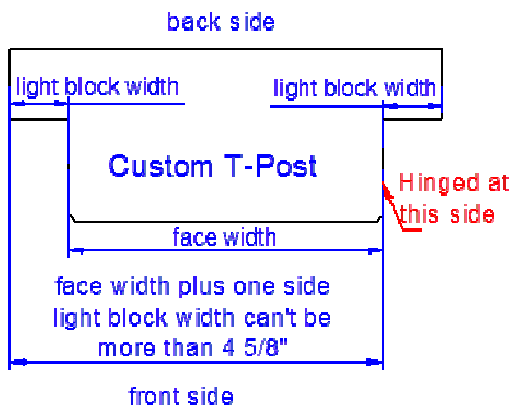
Installation Instructions for the Invisible hinges
Take L Frame as an example:
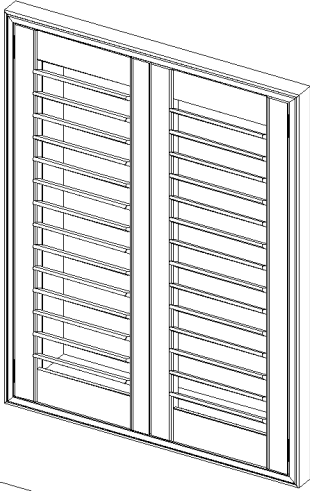
1). Remove the corresponding panels and frames from their packaging and match the panels with the correct frames.
 Install the frames on the corresponding windows and make sure they are square (diagonals are equal)
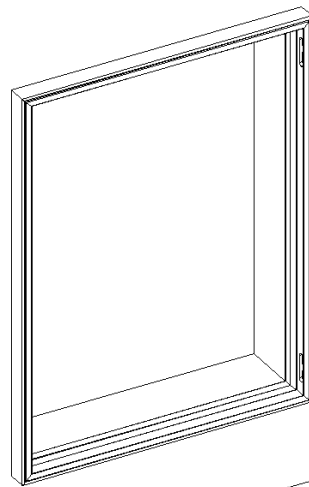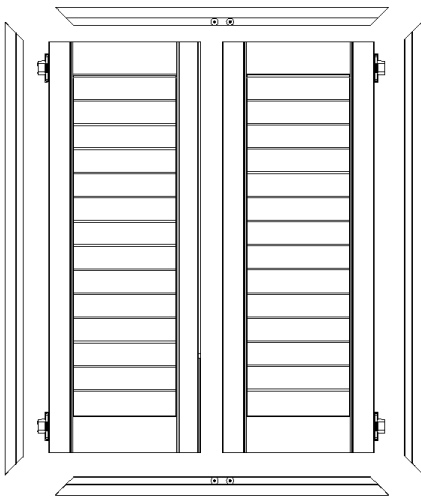
2). Please insert **ALL of** the Invisible hinges on the panel into the hinge holes on the corresponding frames prior to trying to secure any single hinge. This may require the assistance of a second person to hold the panel to prevent the hinges from sliding out of their slots while the screws are secured (Do not let the panels hang from just one hinge).
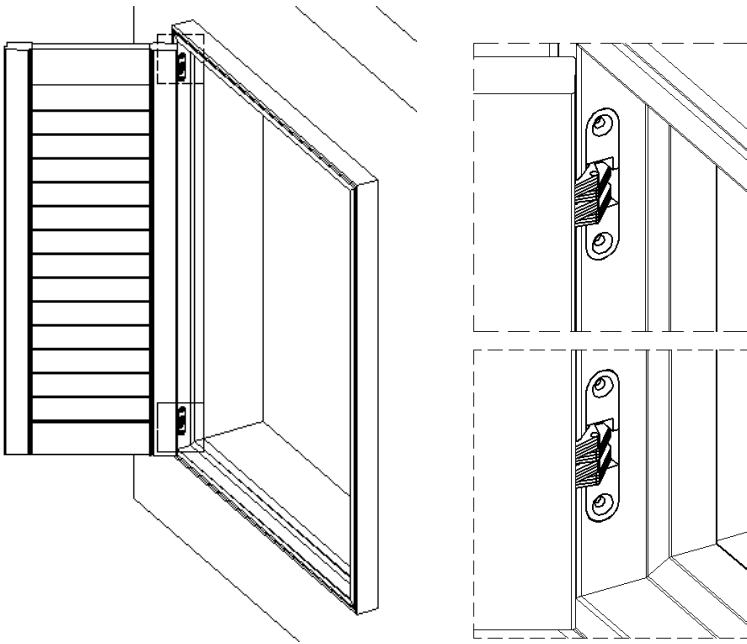
3).To properly secure the panels, first please tighten the upper screw of the uppermost top hinge and the lower screw of the lowest hinge. Close the panel to check whether the shutter closure is normal and the gap is uniform.

Note:
a) When locking the screw, again it is important to prevent the invisible hinges from sliding out of their slots.
b) Only the screws provided in the hardware box may be used and they cannot be replaced by other screws.
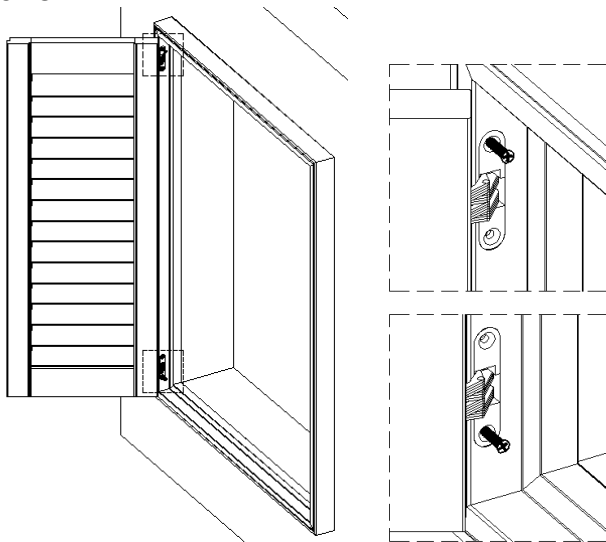
4). When the closure gap is uniform, secure the remaining screws.
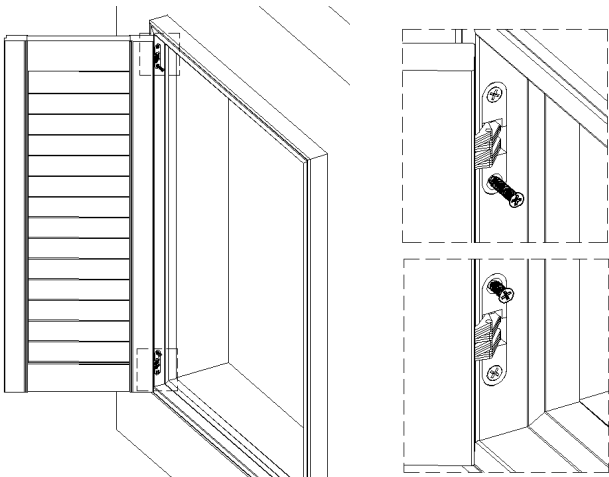
5). Install the remaining panels in the same manner.
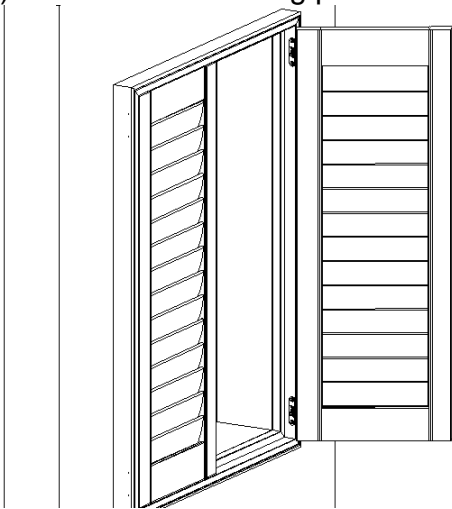
Mount Options for Direct Mount:
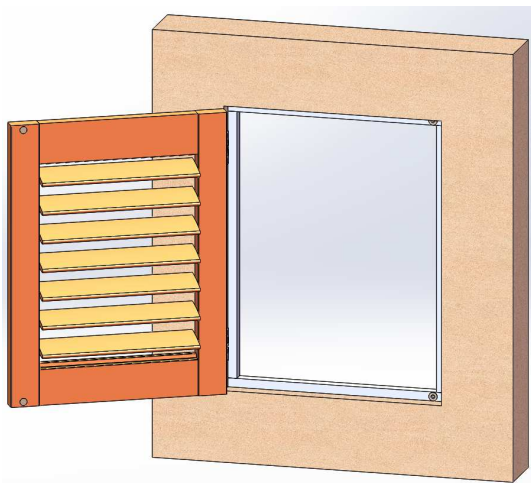
Light block   L magnet catch
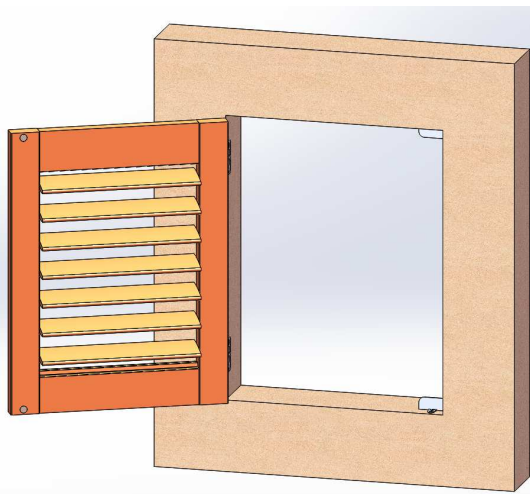
- A Direct Mount shutter that does not have a top and/or bottom sill option is able to use "Light Block", "L magnet catch" or "Light block & L magnet catch" options.
- "Light Block", "L magnet catch" or "Light block & L magnet catch" options can be used for Hang Strip shutters that have the following frame configurations:
  - 2-sided Hang strip IM that does not have a top and/or bottom sill option;
  - 2-sided Hang strip OM that does not have a top and/or bottom sill option;
  - 3-sided Hang strip OM that does not have a bottom sill option;
  - 3-sided Inverted Hang strip OM (hang strip beside the panel) that does not have a top sill option;
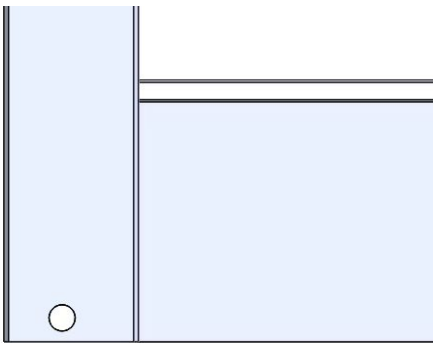
Magnet (recessed into panels)

Round Magnet Catch (installed on light blocks)

L Magnet Catch (sill magnet catch): used for catching the magnets when ordering panels without light blocks.

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

Side Magnet:

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

1. Double Hung shutter but without horizontal T post:

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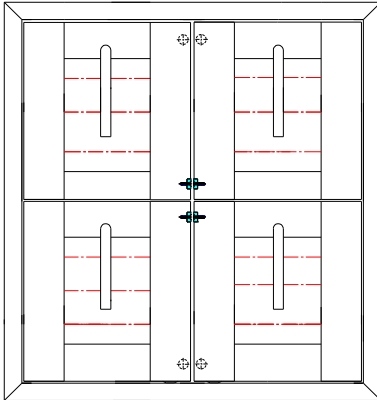
2. Café Shutter

    Side magnets will be applied to the meeting stiles of the L and R panel. (Default)
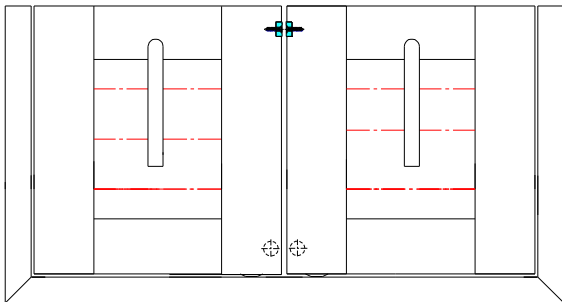
3. No frame or light block or L-shape striker plate on either top or bottom, or if larger than standard top or bottom gap is requested.

    Side magnets will be applied to the meeting stiles of the L and R panel. (Optional)
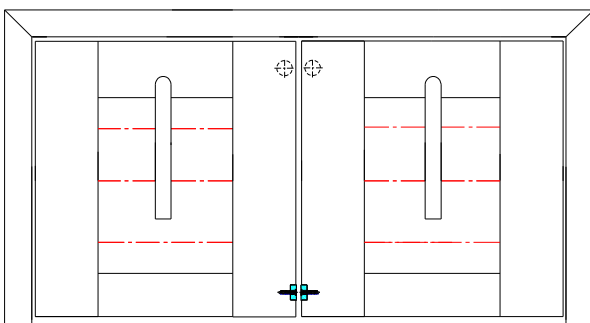
4. Note: if panels only with side magnets and there is no standard magnet on the back of panels, panels may open for external factors.

Normandy Shutters

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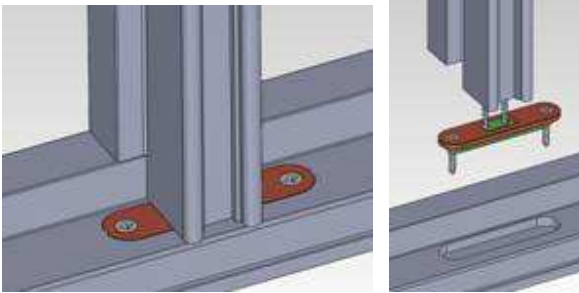
Available colors: Pure White; Silk White; Pearl; Bisque; Black; Nickel-Plated.
Available for all types of T Posts (custom-width T posts excluded).

T Post Connector can be used with the following Frames.
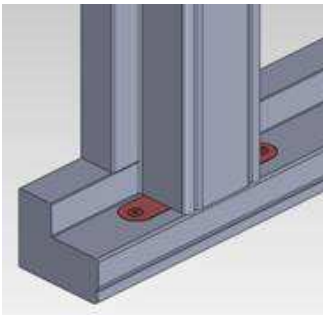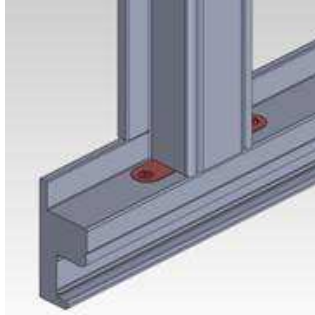
L Frame:　　　　　**Deco Frame:**　　　　　**Z Frame:**
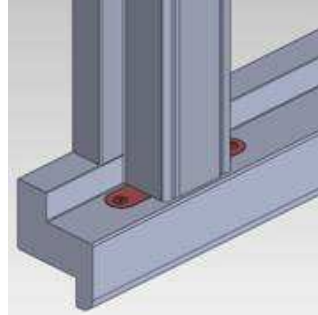
Hang Strip (Beside)
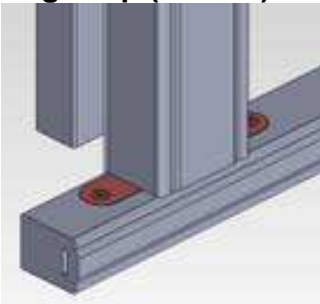
Note:
1. For Horizontal T Post, Hang Strip (Behind) and shutter with 1.6"/2" Sill, T Post connector is not available and T Post will be installed by screws instead;
2. If there is a panel lock which may interfere with the T-Post connector, all the T-Posts for the entire shutter will be installed with screws and the frames to be pre-drilled, even in cases where the panel lock may only interfere with one T-Post;
3. The screw color is nickel-plated regardless of the color of the T Post connector;
4. T post connectors can only be installed on a straight piece, and screws will be used instead for T Post installed on a curved or raked piece.

L Bracket 44mm (It is used when the T Post Connector is not available.)
Available colors: White, Silver
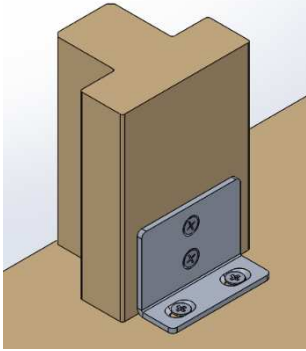
Notes:
1. For the Custom Stain Color orders, when the order only has L Bracket 44mm, but without T Post Connector, the color of L bracket 44mm will default to Silver.
2. For the Custom Paint Color orders, when the order only has L Bracket 44mm, but without T Post Connector, please advise the color of L bracket 44mm;
3. For the Custom Paint Color and Custom Stain Color orders, when the order has both T Post Connector and L bracket 44mm, the color of the L bracket 44mm will match the T Post Connector color as shown in the table below:

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

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

Paint colors (Solid colors) (24)：

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

*Some surcharges apply

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

Stain colors (18)：

No.	Color ID	Color Name	L Bracket 44mm color (Default)
1	108	Rustic Gray	Silver
2	110	Limed White	Silver
3	200	Natural	Silver
4	202	Golden Oak	Silver
5	205	Goldenrod	Silver
6	221	Black Walnut	Silver
7	227	Red Oak	Silver
8	229	Rich Walnut	Silver
9	230	Old Teak	Silver
10	237	Wenge	Silver
11	242	Auburn	Silver
12	246	Matte Black	Silver
13	248	Pretzel	Silver
14	250	Sumatra	Silver
15	252	Toffee	Silver
16	254	Driftwood	Silver
17	255	Silver Gray	Silver
18	862	French Oak	Silver

*Some surcharges apply

Normandy Shutters

Premium Colors (6)：

No.	Color ID	Color Name	L Bracket 44mm color (Default)
1	1003	White Matte	Silver
2	1109	Silk Gray	Silver
3	1111	Granite Gray	Silver
4	1203	Black	Silver
5	1204	Ebony	Silver
6	1502	Teak	Silver

Optional Poles:

1. Terminology
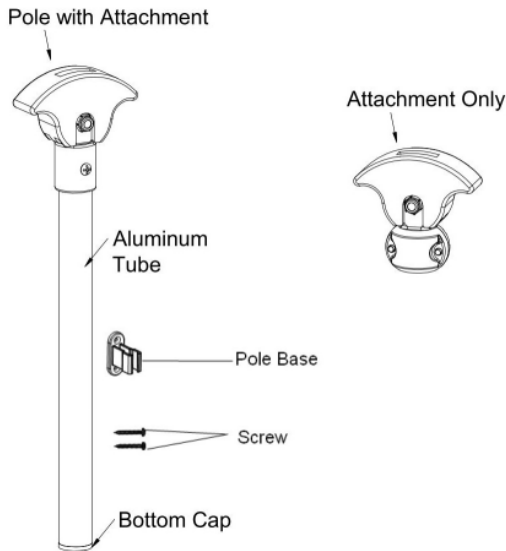
Component

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

2. Available Pole Length

Two lengths available:

- 36"
- 60"

*Some surcharges apply

Bi-fold 180^{TM}

Guidelines and Specs:

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

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

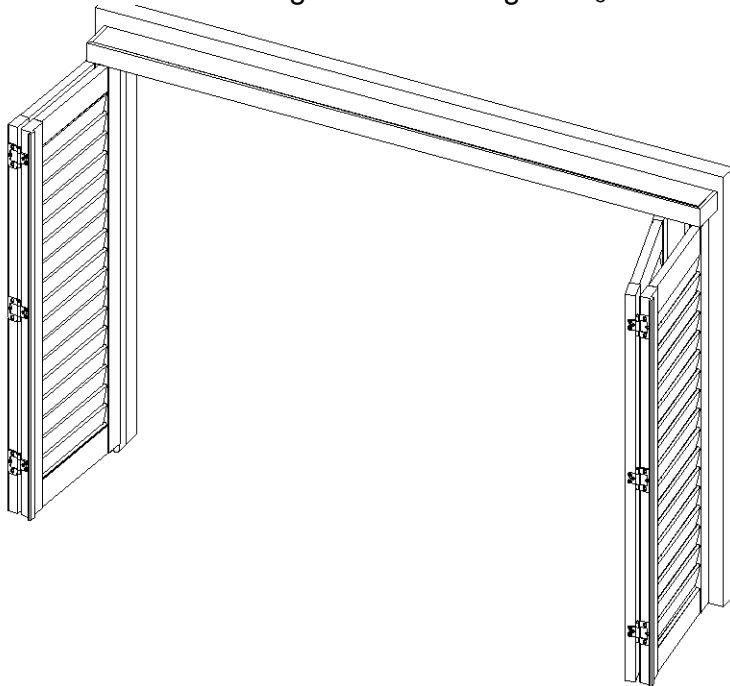Track is pre-installed on the header; standard 1 track only.

Normandy® Shutters
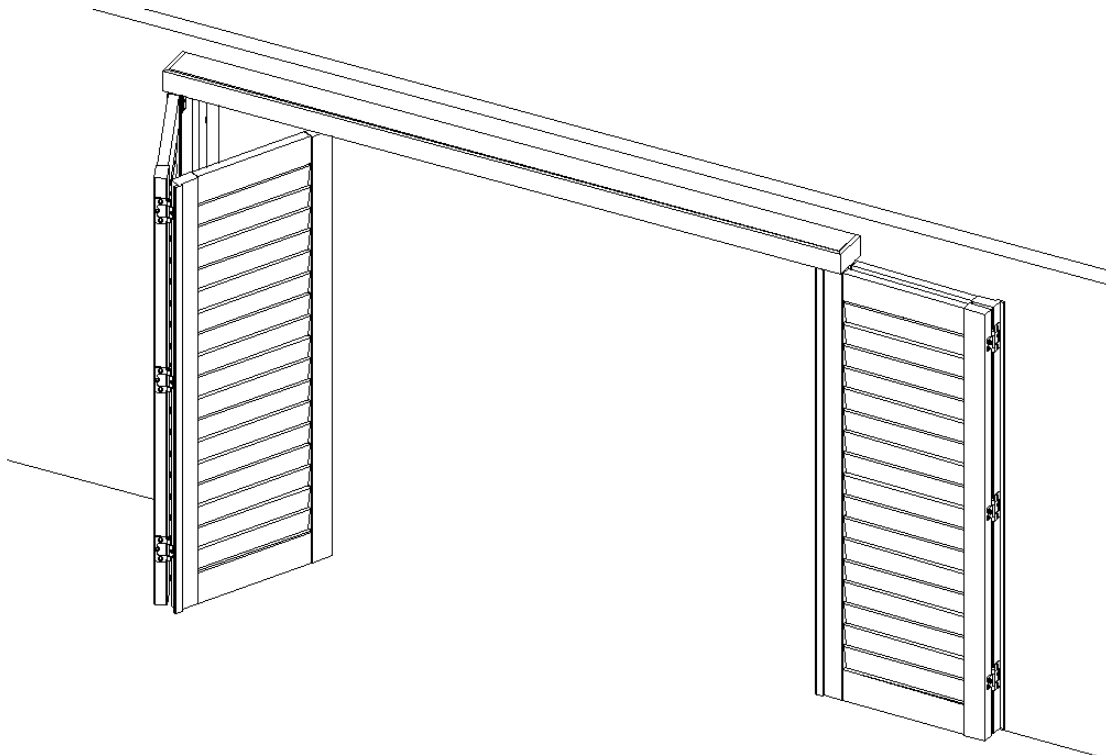
Mounting Options: Outside Mount only
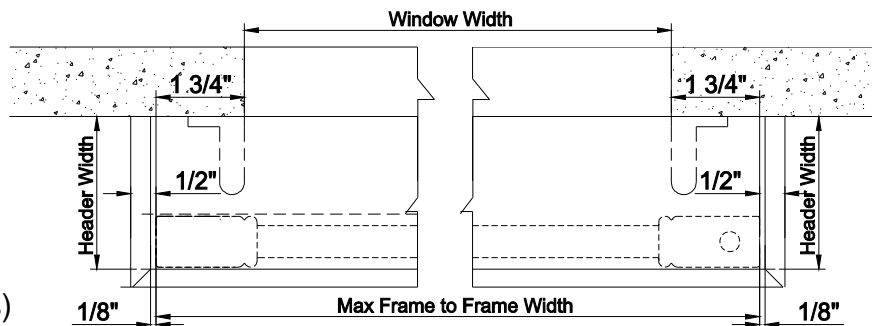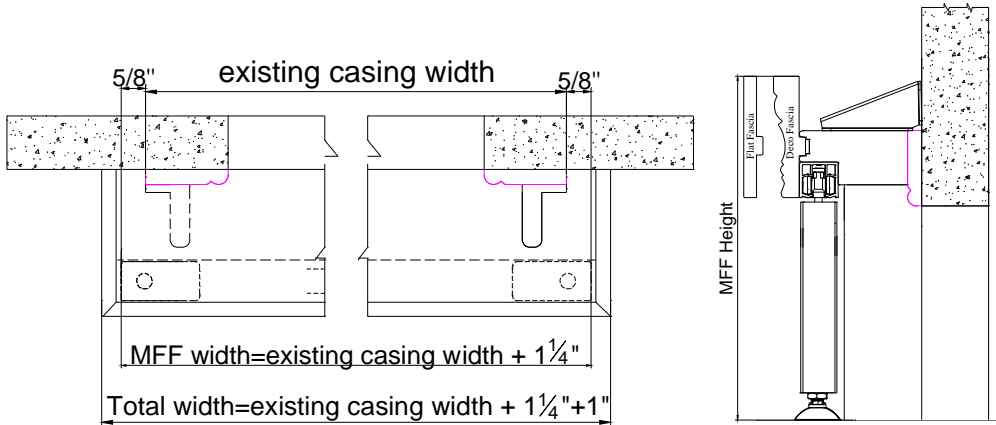
Side View
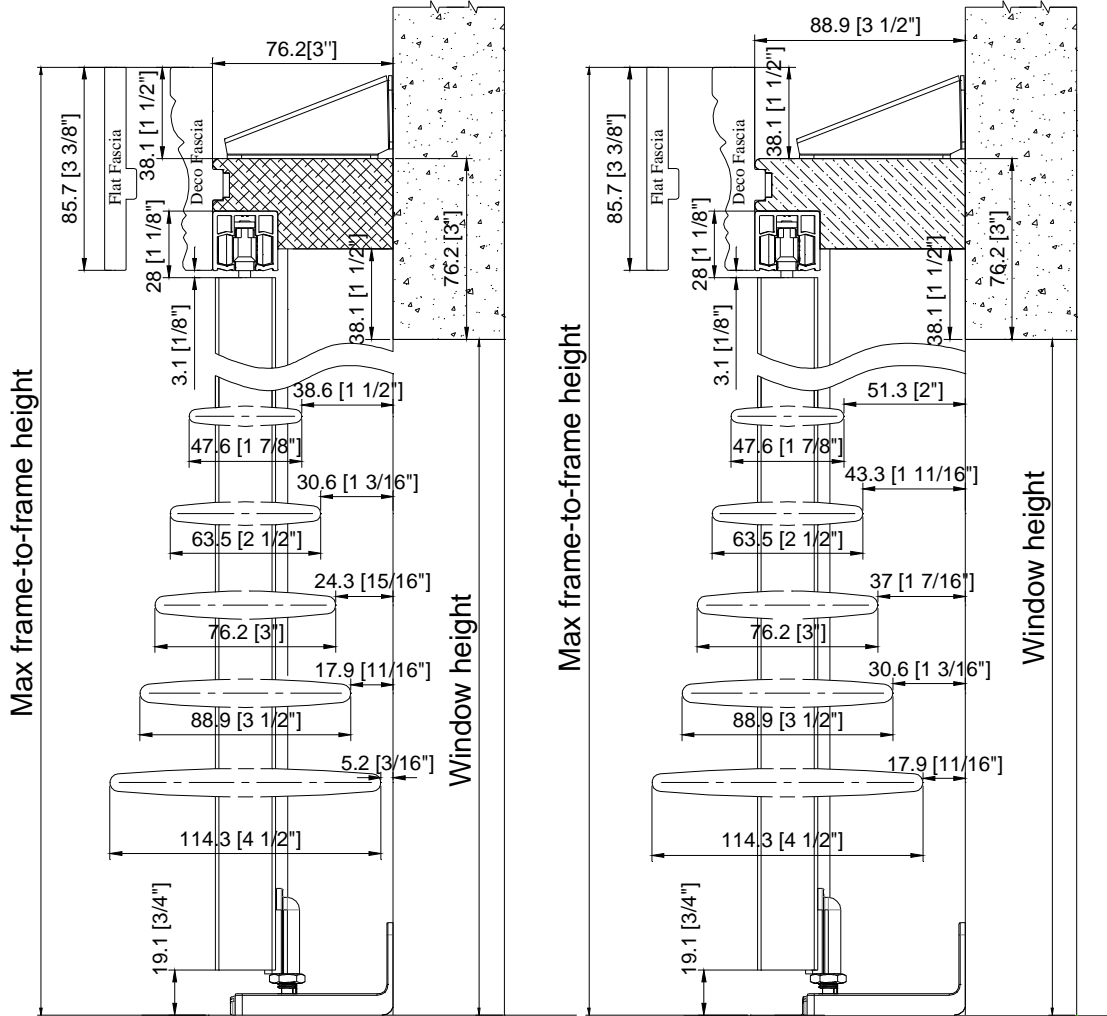
Top View

Without Casing:

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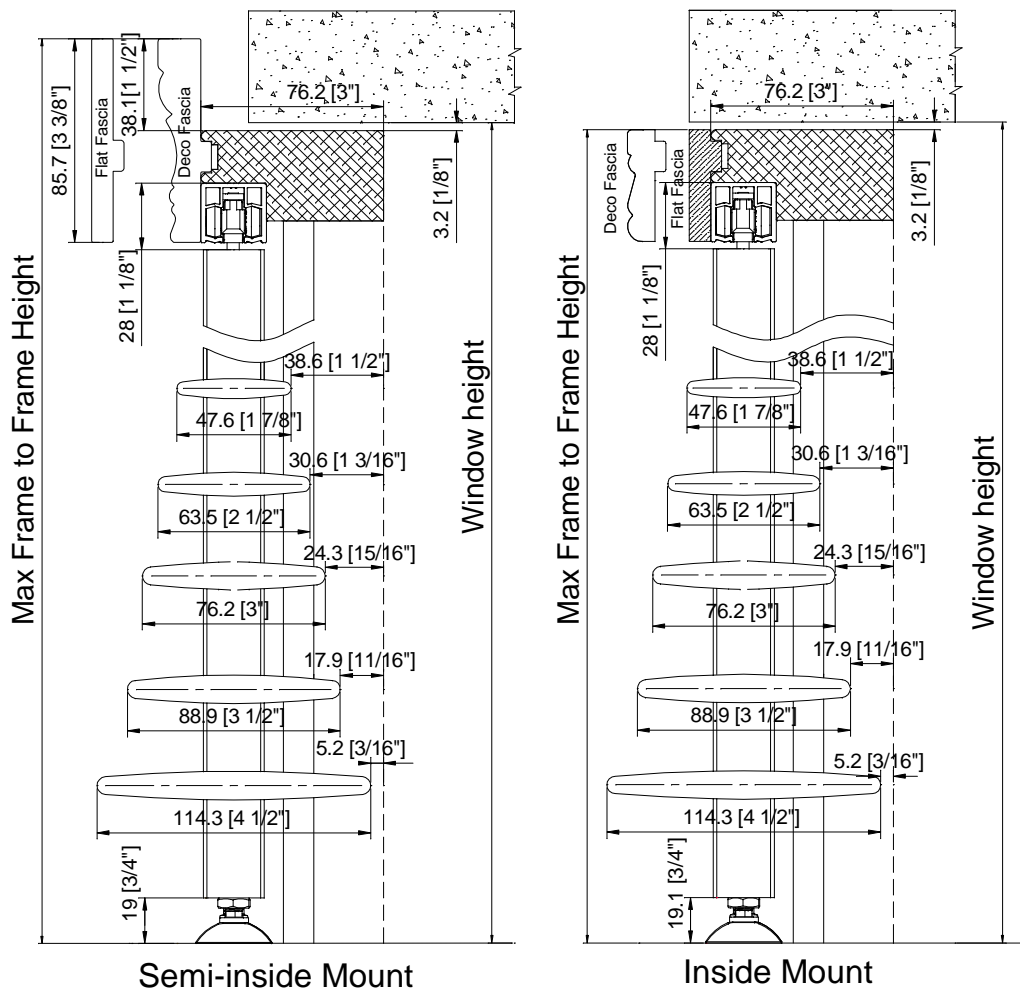◇ Header, light blocks, and bottom pivot bracket(s) must be installed on a flat surface.
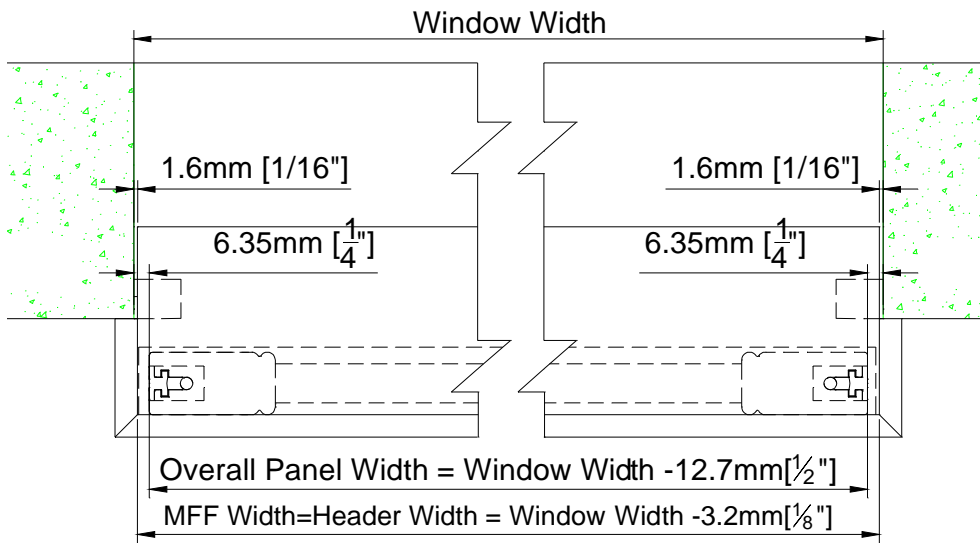
With Existing Casing:

$\frac{5}{8}$" existing casing width $\frac{5}{8}$"
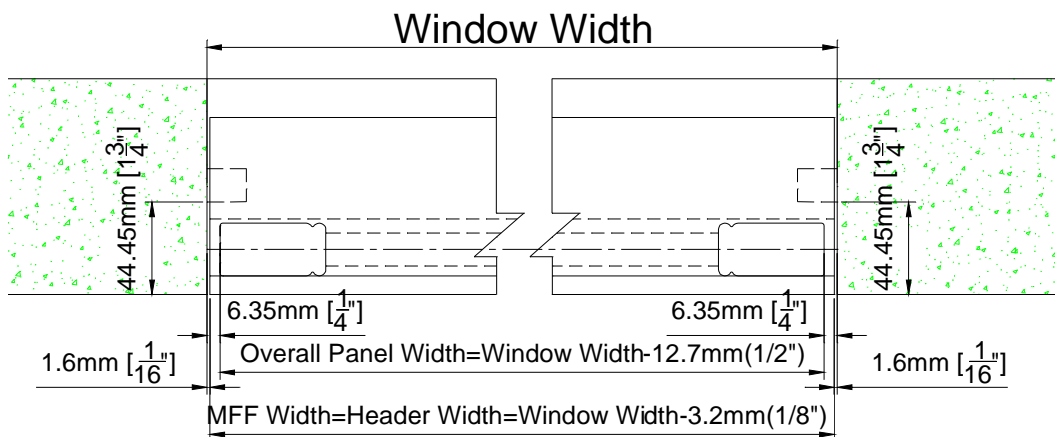
MFF Height

MFF width=existing casing width + $1\frac{1}{4}$"

Total width=existing casing width + $1\frac{1}{4}$"+$1\frac{3}{8}$"

Flat Fascia — Deco Fascia — Height
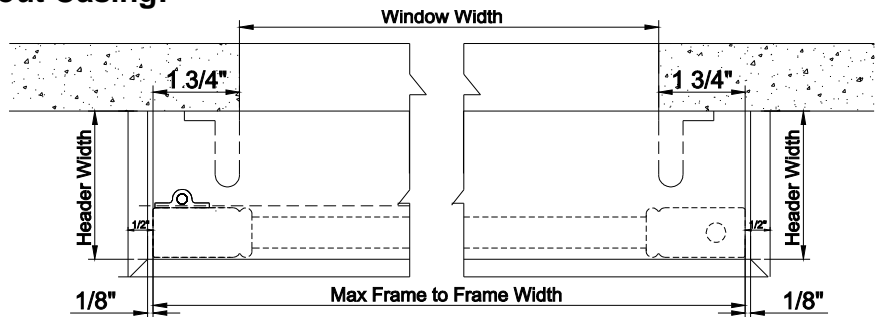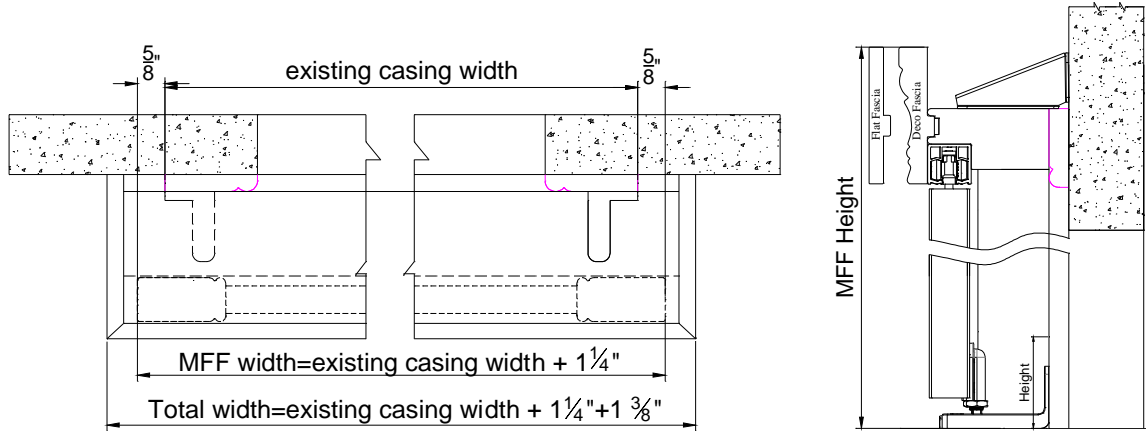
◇ Header Extension: Optional
◇ Custom extension up to 2" for Header
◇ When extension is needed, the header will protrude the panel 5/16" for each side and the fascia return will protrude the panel 11/16" for each side.

Extension

Header Width

11/16" 11/16"

5/16" 5/16"

◇ The extension will be pre-attached.

Extension

3"/3.5"

85.7 [3 3/8"]

Flat Fascia

Deco Fascia

76.2 [3"]

38.1 [1 1/2"]
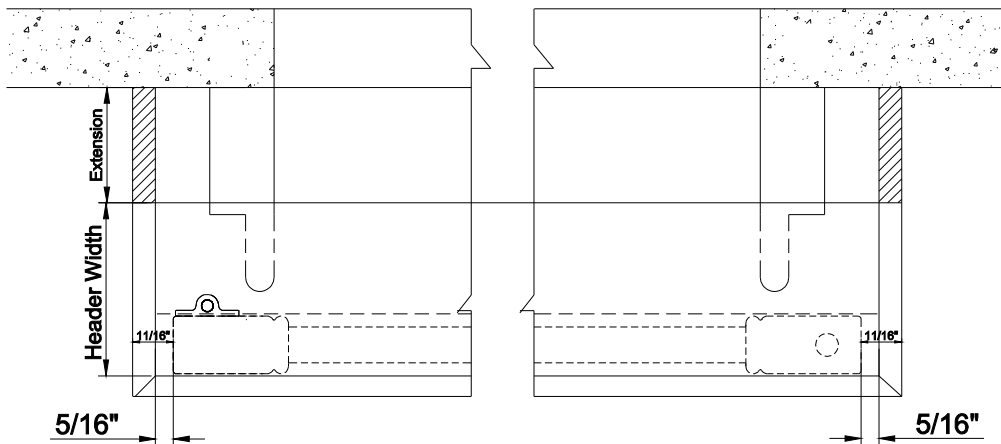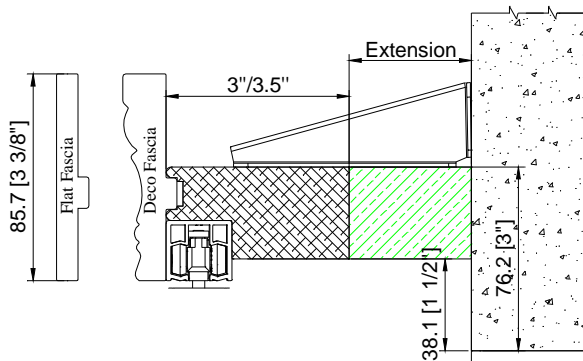
For 180 Bi-fold, if Bottom Pivot L Bracket is required, the extension for the L shape light block will be 1 3/4" in width. Please see picture below:
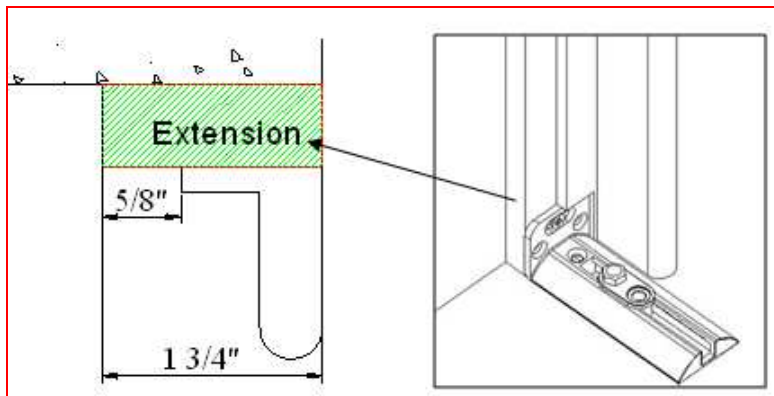
Extension

5/8"

1 3/4"

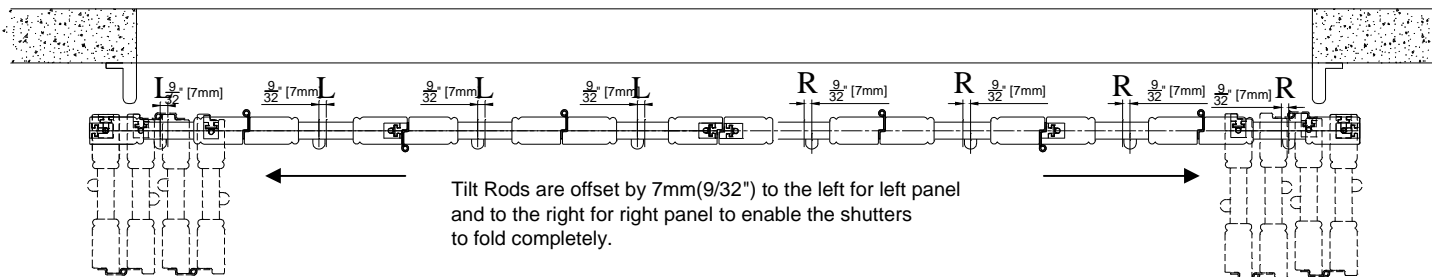**Panel Configuration：Only 2", 2 1/4" rabbet and butt stiles are available. Center stile is not available.**
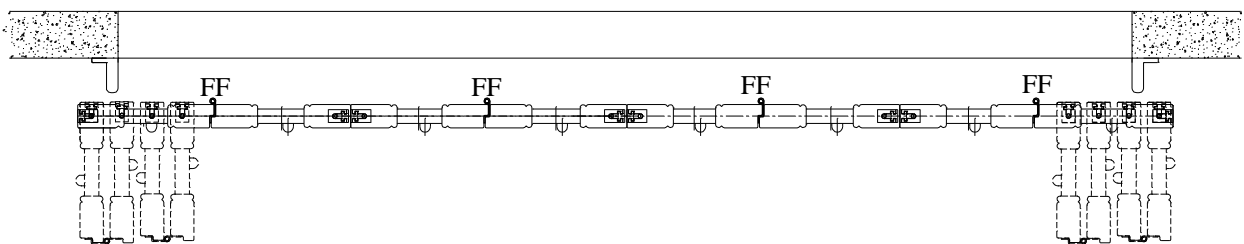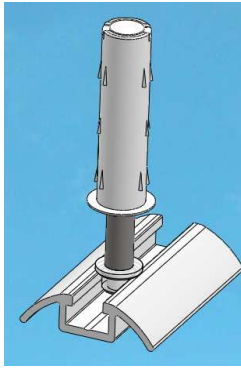

LLL RRR

LLRR

LL

RR

LLL

RRR

LL RRR

LLL RR
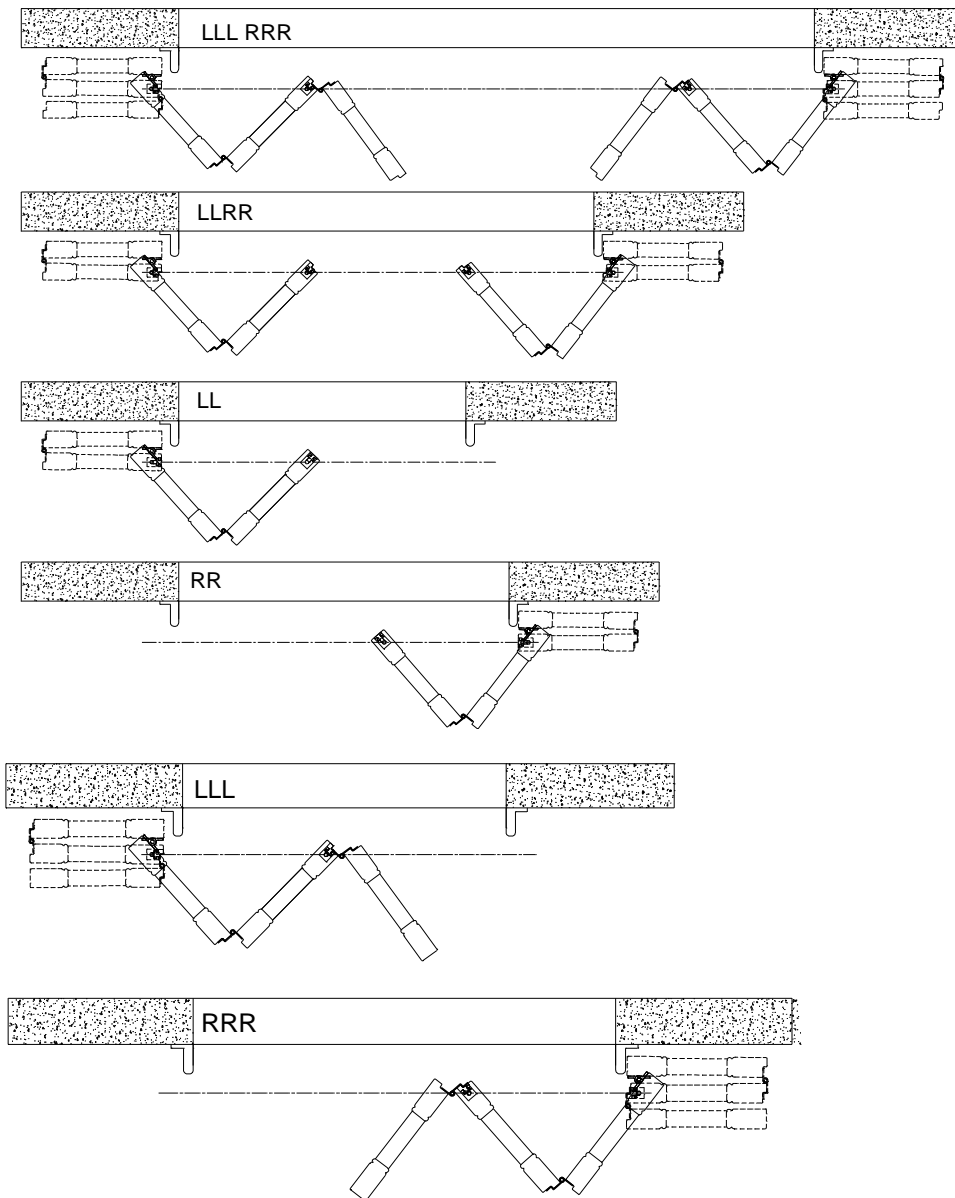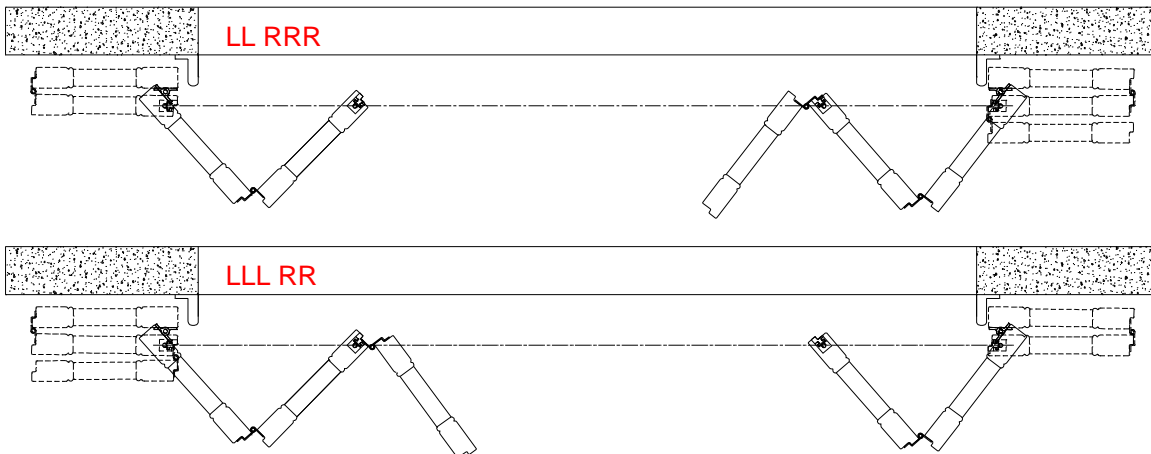
Notes:

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:
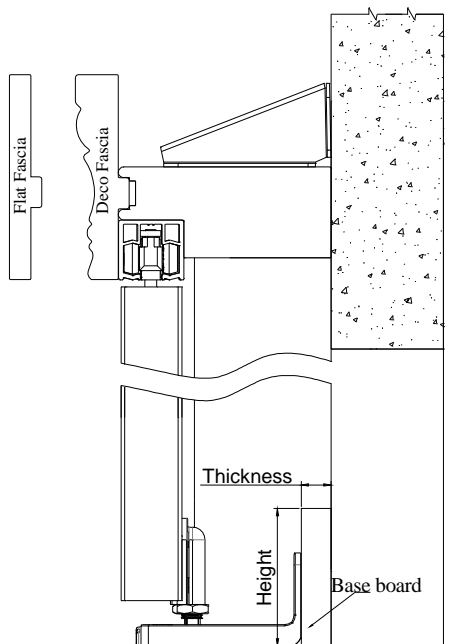
180⁰ Bi-fold Track Shutters Framing Materials

180^0 Bi-fold Track Shutters Framing Materials

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

180^0 Bi-fold Track Shutters Hardware Box

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

Bi-fold 90

Guidelines and Specs:

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

Outside Mount
Max frame-to-frame width: window width + 3 1/2"
Max frame-to-frame height: window height + 4 1/2"
Semi-Inside Mount
Max frame-to-frame width: window width - $^1/_8$"
Max frame-to-frame height: window height + 1 $^3/_8$"
Inside Mount
Max frame-to-frame width: window width - $^1/_8$"
Max frame-to-frame height: window height - $^1/_8$"

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

Mounting Options: Outside Mount

Side View
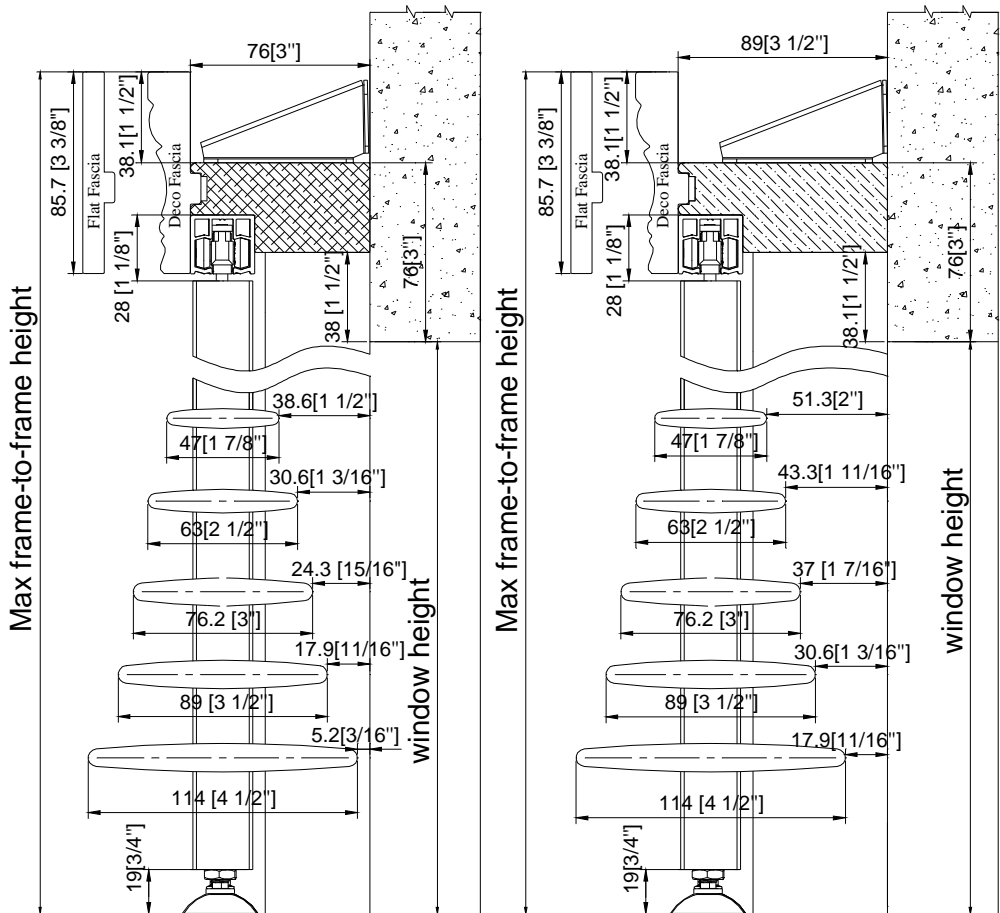
Top View

Without Casing:

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

With Existing Casing:

5/8" existing casing width 5/8"

MFF width=existing casing width + 1¼"

Total width=existing casing width + 1¼"+1"

MFF Height

Flat Fascia

Deco Fascia

Semi-Inside/Inside Mount

Side View

Semi-inside Mount

Max Frame to Frame Height

Window height

85.7 [3 3/8"]

38.1 [1 1/2"]

Flat Fascia

Deco Fascia

76.2 [3"]

3.2 [1/8"]

28 [1 1/8"]

38.6 [1 1/2"]

47.6 [1 7/8"]

30.6 [1 3/16"]

63.5 [2 1/2"]

24.3 [15/16"]

76.2 [3"]

17.9 [11/16"]

88.9 [3 1/2"]

5.2 [3/16"]

114.3 [4 1/2"]

19 [3/4"]

Inside Mount

Max Frame to Frame Height

Window height

76.2 [3"]

3.2 [1/8"]

Deco Fascia

Flat Fascia

28 [1 1/8"]

38.6 [1 1/2"]

47.6 [1 7/8"]

30.6 [1 3/16"]

63.5 [2 1/2"]

24.3 [15/16"]

76.2 [3"]

17.9 [11/16"]

88.9 [3 1/2"]

5.2 [3/16"]

114.3 [4 1/2"]

19.1 [3/4"]

Semi-Inside Mount Top View

Window Width

1.6mm [1/16"] 1.6mm [1/16"]

6.35mm [$\frac{1}{4}$"] 6.35mm [$\frac{1}{4}$"]

Overall Panel Width = Window Width -12.7mm[$\frac{1}{2}$"]

MFF Width=Header Width = Window Width -3.2mm[$\frac{1}{8}$"]

Inside Mount Top View

Window Width

44.45mm [1$\frac{3}{4}$"] 44.45mm [1$\frac{3}{4}$"]

6.35mm [$\frac{1}{4}$"] 6.35mm [$\frac{1}{4}$"]

1.6mm [$\frac{1}{16}$"] Overall Panel Width=Window Width-12.7mm(1/2") 1.6mm [$\frac{1}{16}$"]

MFF Width=Header Width=Window Width-3.2mm(1/8")

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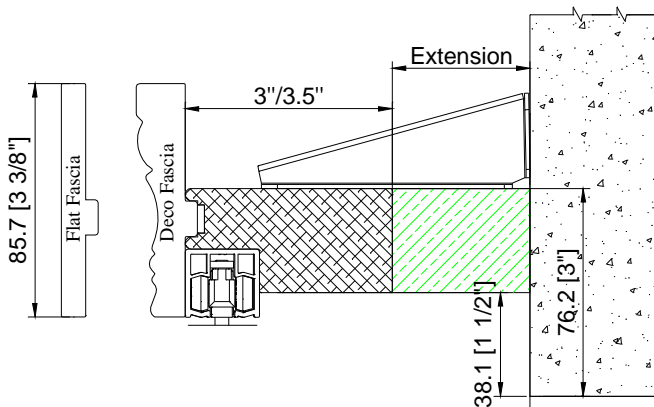
Extension

3"/3.5"

85.7 [3 3/8"]

Flat Fascia

Deco Fascia

38.1 [1 1/2"]

76.2 [3"]

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

LL or RR
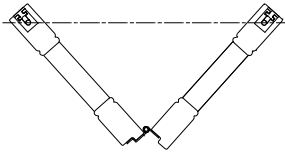
LLRR
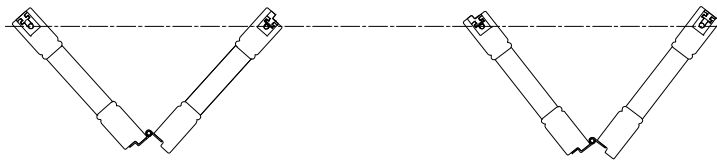
90^0 Multi-Fold Track Shutters (Wood only)
Maximum single panel width for multi-fold is 20"
Panel Configuration: LLLL, RRRR, or LLLLRRRR

Tilt Rods are offset by 7mm(9/32") to the left for left panel
and to the right for right panel to enable the shutters
to fold completely.

90^0 Floating Panels

- o Two or four panels can be hinged together, fold and slide to either direction
- o Application comes with wheel carrier, spring loaded guide and floor track
- o Can be used on large window
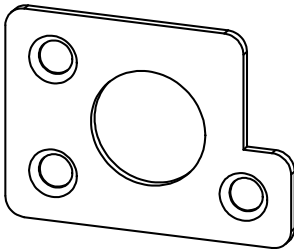
Spring loaded guide plate
(for wood panel with spring loaded guide in all Bifold track systems)

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

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

2016 Stopper
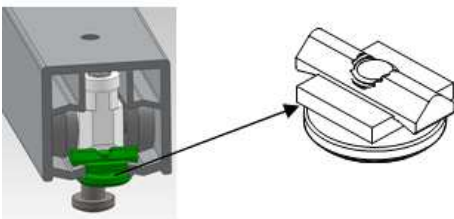
Please see drawing below to show the gap.

2016 Stopper

2016 Stopper

5.1mm [3/16"]   5.1mm [3/16"]
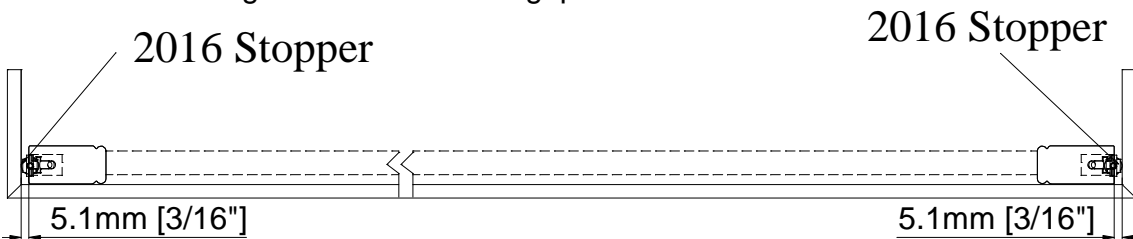
2. When rabbet stile required, the meeting stile of unhinged stile will be butt stile by default.

90 Degree Bi Fold Track Shutters Framing Materials

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

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

Frame Hinged Bifold

Available Stile: Rabbet Stile Only
Available Frame type

22.2mm [0.875"]
46.5mm [1.83"]
38.1mm [1.5"]
Vintage L Frame

22.2mm [0.875"]
60.3mm [2.375"]
38.1mm [1.5"]
Vintage L Frame
with 1/2" Buildout

22.2mm [0.875"]
76.2mm [3"]
38.1mm [1.5"]
Vintage L Frame
with 1" Buildout
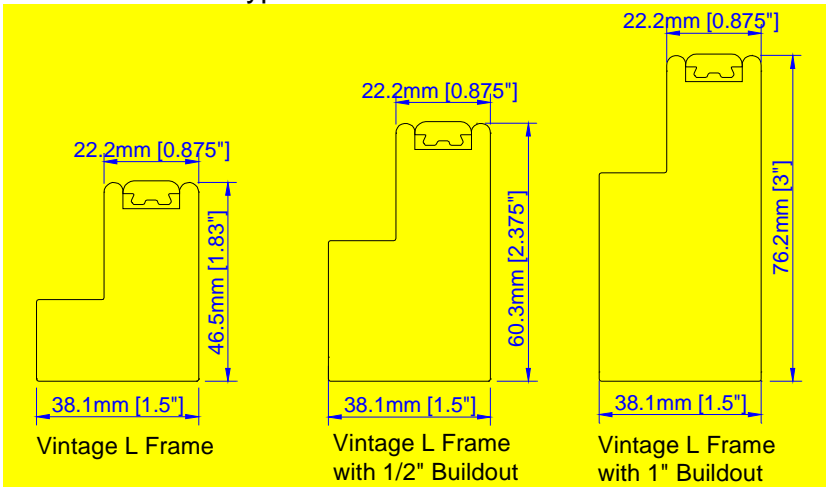
Vintage Hang Strip with 13mm light block: For single direction shutter with even panel qty, the frame on the unhinged side will be Vintage Hang Strip with 13mm [0.512''] light block, the height of the Vintage Hang Strip will match with that of the hinged side frame.

22.2mm [0.875"]
46.5mm [1.83"]
33.5mm [1.317"]
13mm [0.512"]

Vintage Hang Strip Height>46.5mm(1,83")
22.2mm [0.875"]
46.5mm(1,83")
35mm [1.378"]
13mm [0.512"]
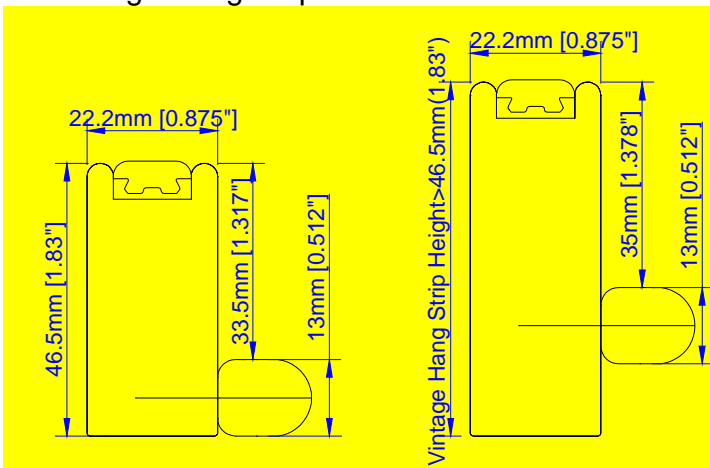
Top View
Hinged at Left or Right with wheel assembly at top;

1 1/2"   Outside Mount   1 1/2"

Max Frame to Frame Width

1/16"   Inside Mount   1/16"

Max Frame to Frame Width
Window Width
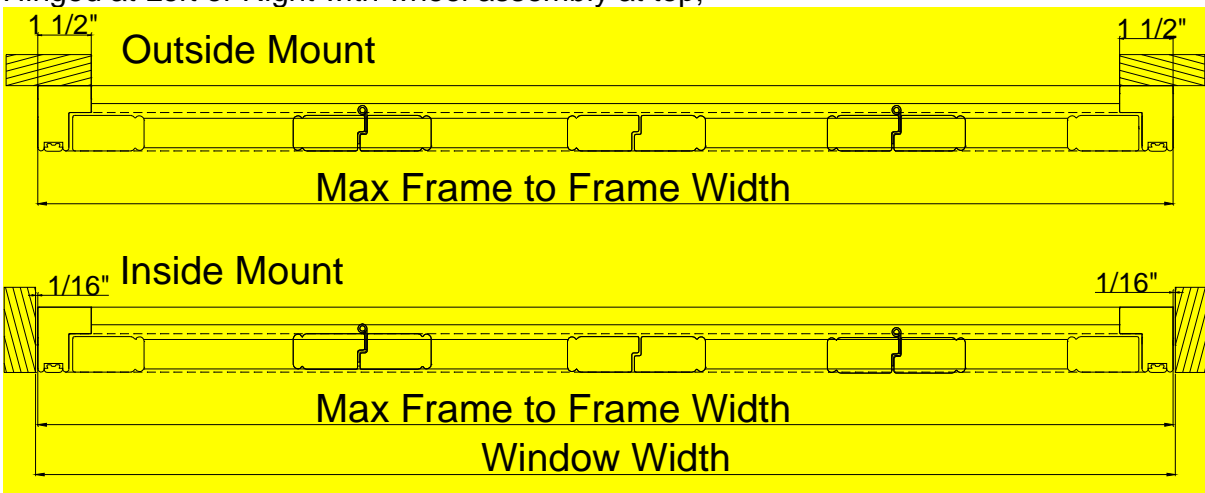
Side View

Outside Mount

3-Sides + bottom light block

3-Sides + 3" Deco Sill Frame

Max Frame to Frame Height

3.1 [1/8"]

25.4 [1"]

Window Height

2.5 [1/8"]

15.9 [5/8"]

19.1 [3/4"]

Light Block

F-F Height

25.4 [1"]

WS Height

2.5 [1/8"]

19.1 [3/4"]

15.9 [5/8"]

Light Block

3" Deco Sill Frame at bottom

76.2 [3"]
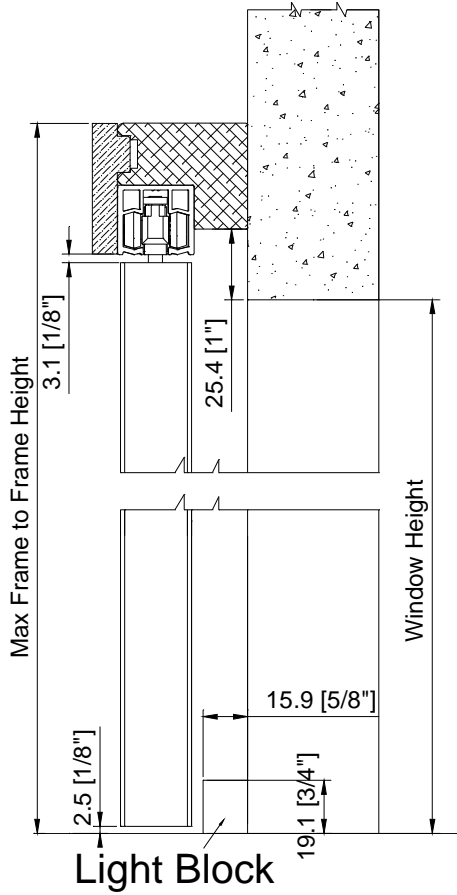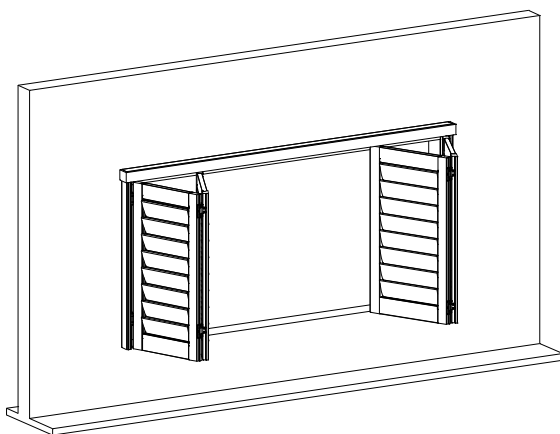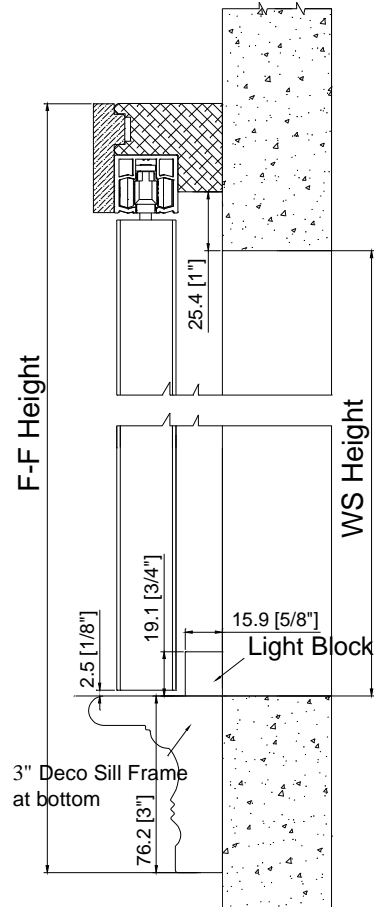
Note: For OM Frame Hinged Bifold shutter not to use as a door, if there is no existing sill at the bottom of the window opening, it is recommended to have the 3" Deco Sill Frame at the bottom.

Normandy Shutters

Semi-Inside   Inside Mount

Max Frame to Frame Height

3.2 [1/8"]

3.1 [1/8"]

Window Height

2.5 [1/8"]

19.1 [3/4"]

15.9 [5/8"]

6.3 [1/4"]

Max Frame to Frame Height

3.2 [1/8"]

3.1 [1/8"]

Window Height

2.5 [1/8"]

19.1 [3/4"]

15.9 [5/8"]

6.3 [1/4"]
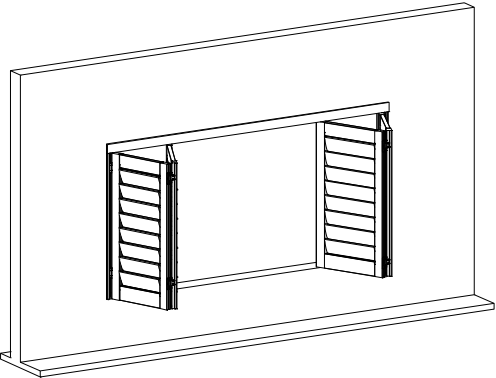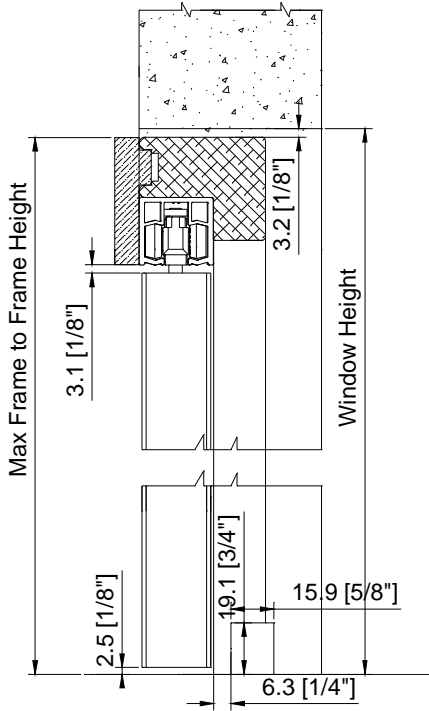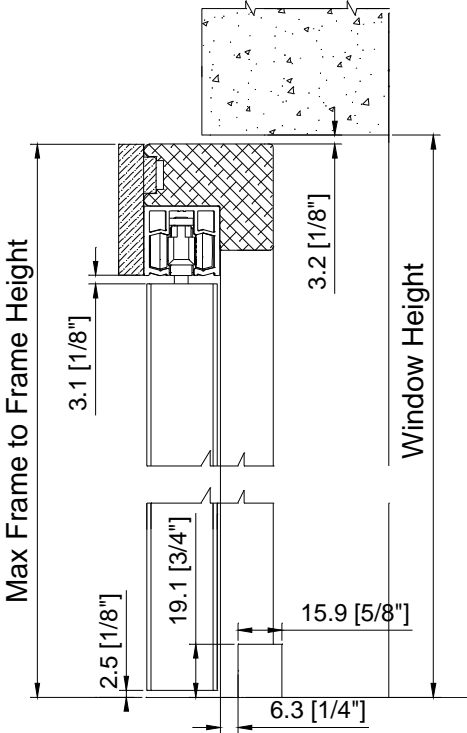
For frame hinged bifold track shutter used as door, the bottom gap will be 19mm by default. Please specify "Used As Door" on the order form.
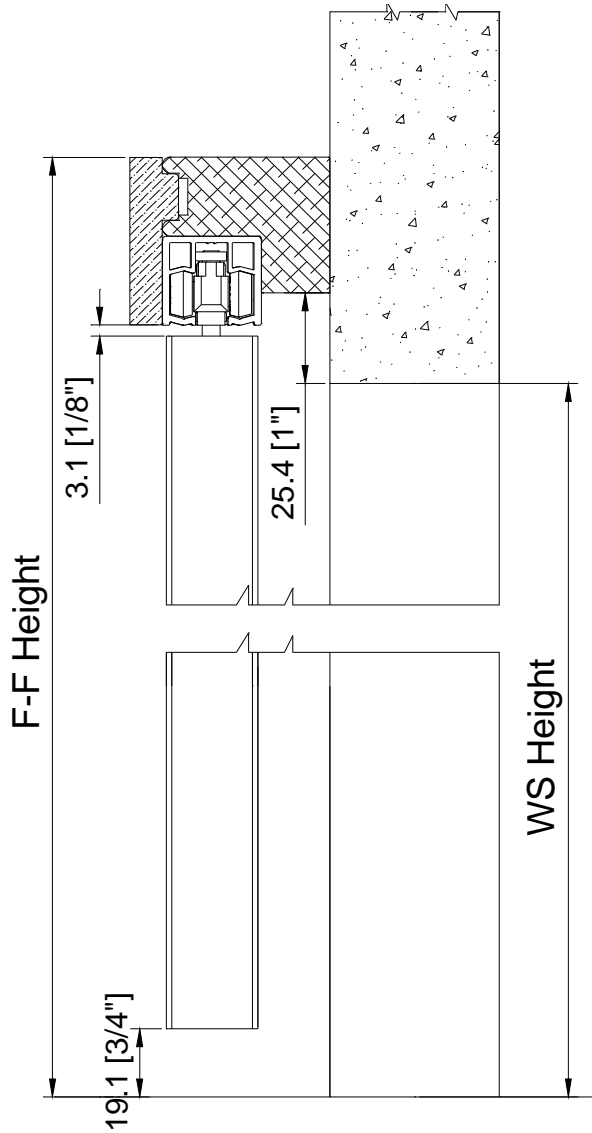
Panel Configuration (uneven panel width)

1) If the hinge type between panel and frame is 2 3/8" Self Mortise Hinge,
   the panel width1 (hinged with Self Mortise Hinge) = A,
   the other panels width (panel width2 / panel width3 / panel width4) = A + 34.5mm;
2) If the hinge type between panel and frame is Invisible Hinge,
   the panel width1 (hinged with Invisible Hinge) = A,
   the other panels width (panel width2 / panel width3 / panel width4) = A + 29.5mm;

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

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

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

LLRR

LLLLRRRR

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

LLLL

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

RRRR
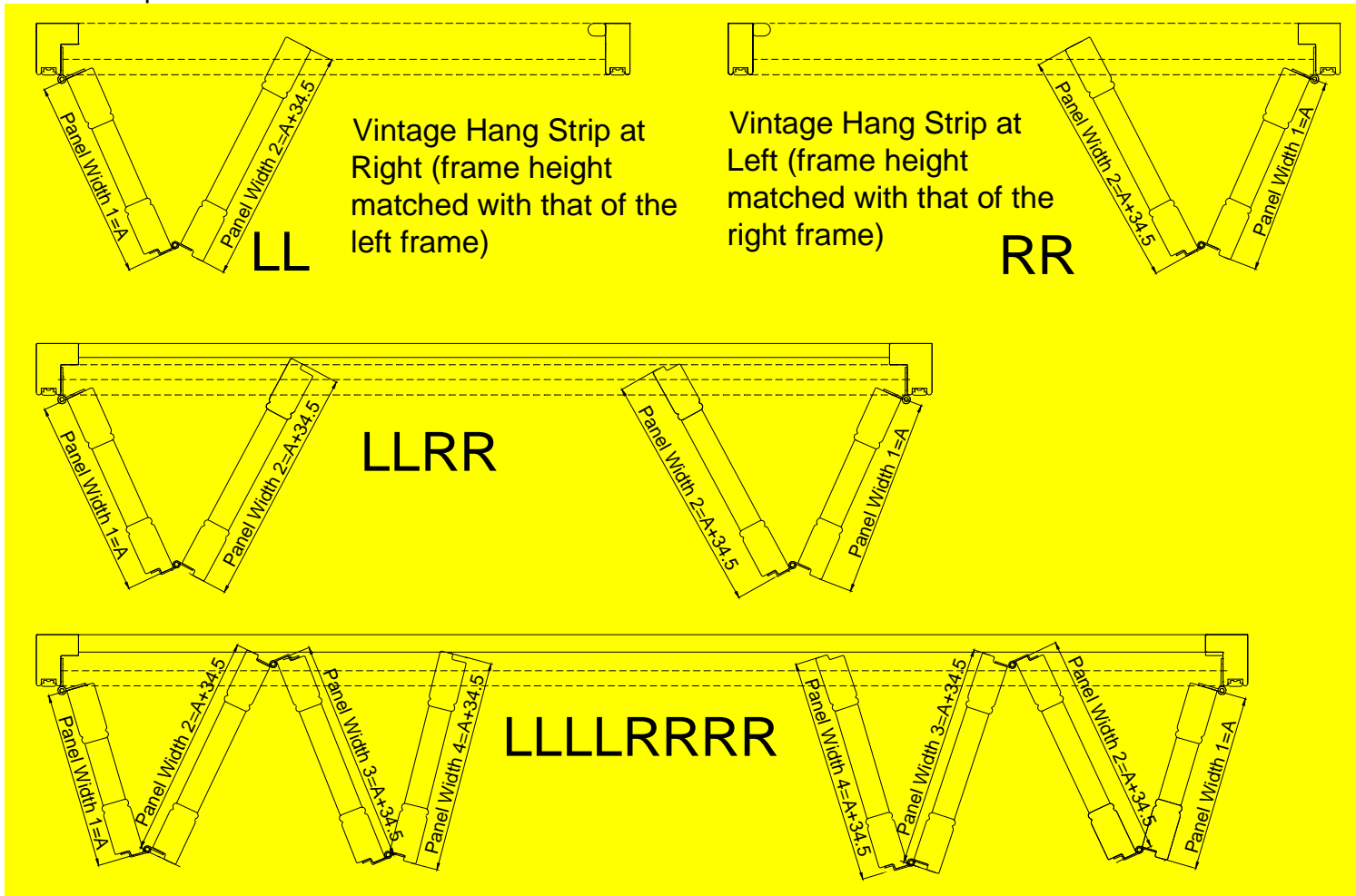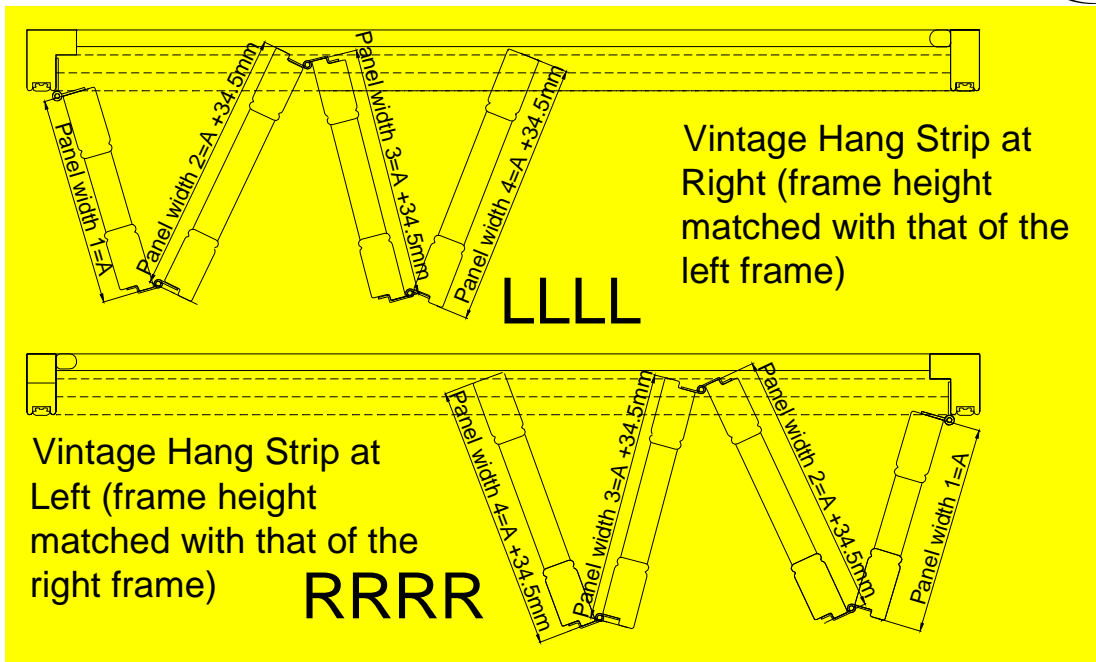
Notes:

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

90°
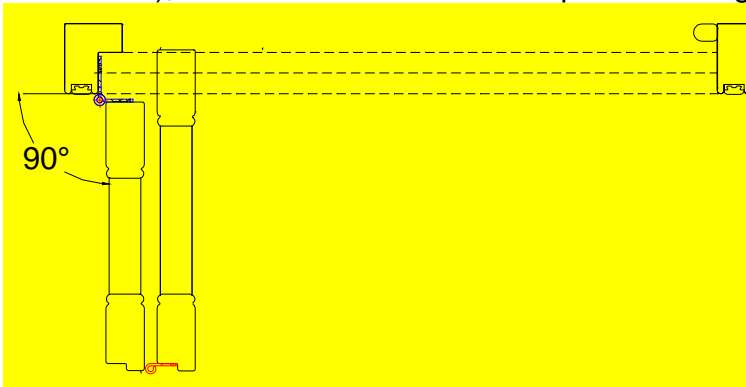
2. Frames available: Only Vintage L Frame
1) For top frame, the insert will be replaced by top fascia;
2) Top track will be pre-attached to the top frame;
3) Frame will be pre-drilled with screw holes same as regular shutters.

Ring Pull: The ring pull will be provided as an option; Customer need specify ring pull location on the order form. Ring pull location is measured from the floor to center of the ring pull in height direction.
Ring pull color will match the hinge color.

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

LL

RR

LLL

RRR

LLRR

LLLL

RRRR

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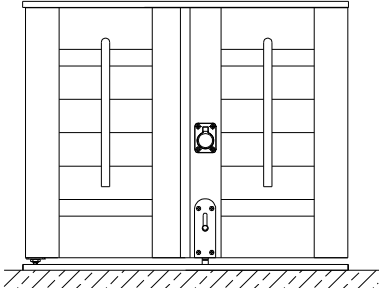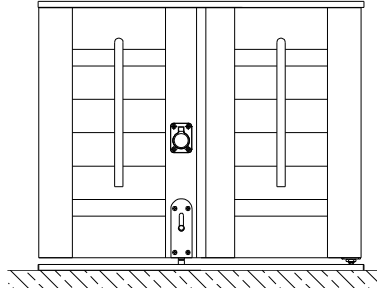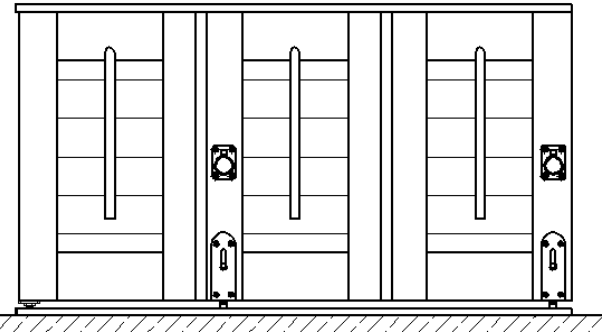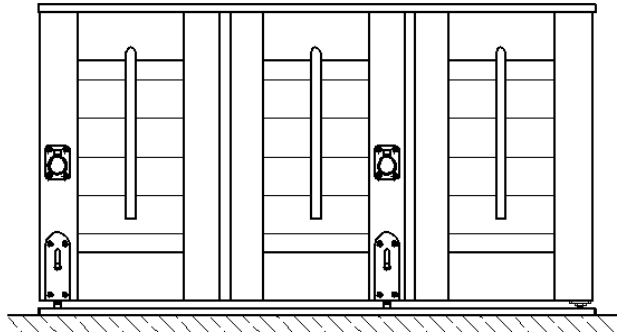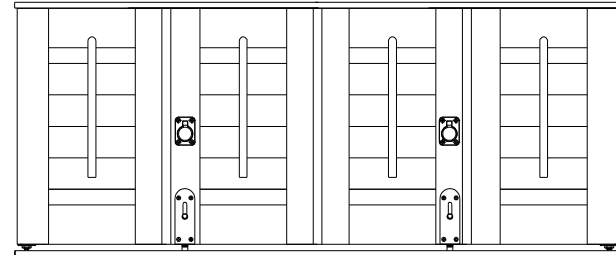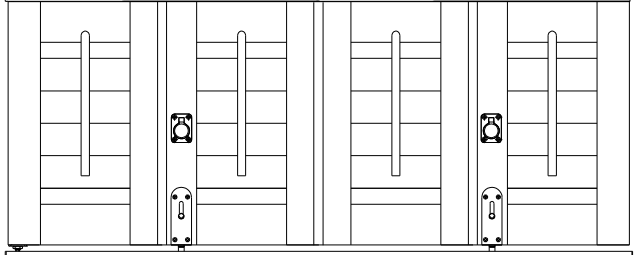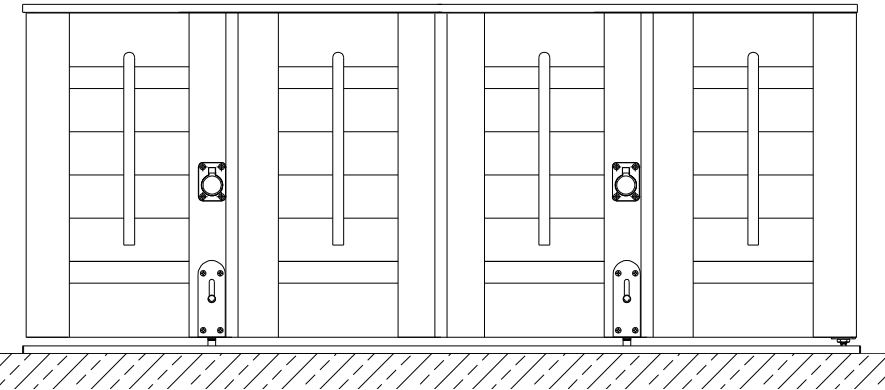
Bottom Pivot Brackets:
For 90°Bifold Track Shutter, there will be 2 types of Bottom Pivot Brackets available.

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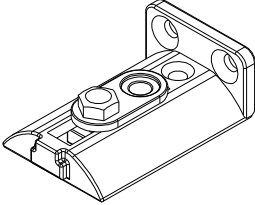
For Inside Mount, it will be supplied as default;

Bottom Pivot Bracket:
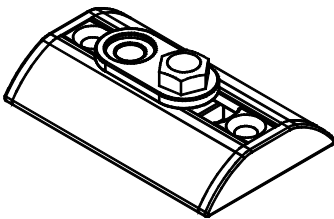
For Semi-Inside or Outside Mount, it will be supplied as default.

81mm Bottom Pivot L Bracket:
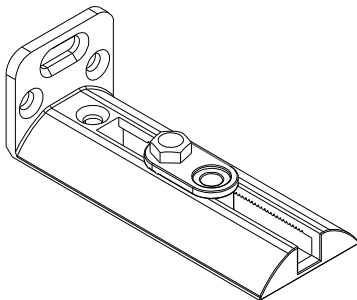
For 90°Bifold Track Shutter Outside Mount, it will be supplied as an optional. (Notes:If screwing the bracket into the floor is not an option)

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

Track Dimension:

Top Track

27.4mm

25mm

31.2mm [1.227"]

0.3465"

8.8mm
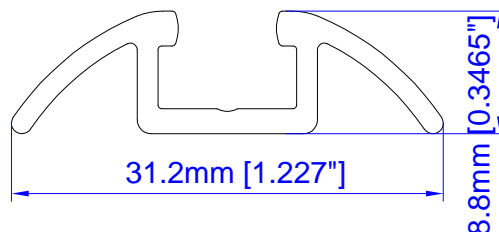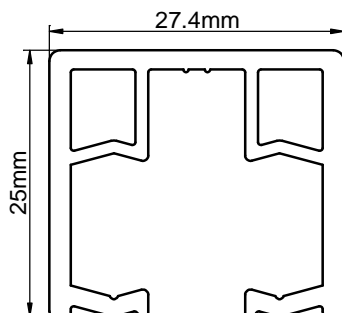
M Shape Bottom Track

Extra 8.5x25mm Magnet Catches and magnets will be supplied for Bifold hinge: (only for the most top and bottom hinges)

8.5x25mm Magnet Catch

8.5x25mm Magnet Catch
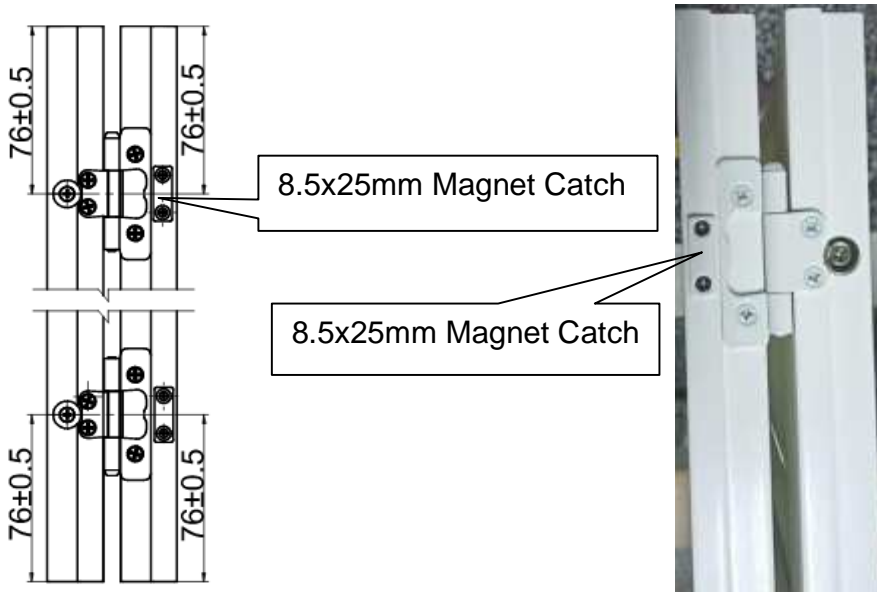
Side Magnet: applied to the meeting stiles of LR panels
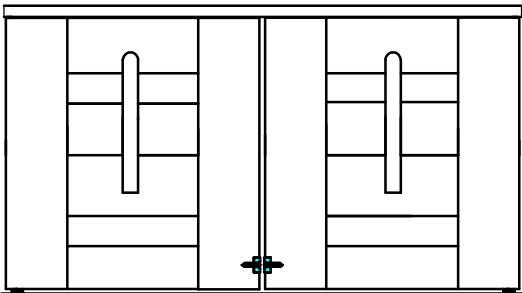
90^0 Bi Fold Track Shutters Hardware Box

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

Notes:
1. for all bifold track shutter Outside Mount, the header will be pre-drilled with screw holes in the insert and screws will be supplied by default;

2. for all bifold track shutter Inside/Semi-Inside Mount, the header will be pre-drilled with holes for screws and wood plug and screws and wood plug will be supplied by default
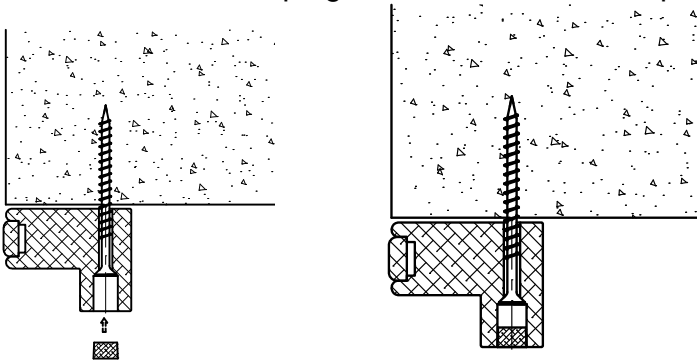
90 Degree Bifold Track & Floating Panels Hanger Location:

LL/RR/LLRR
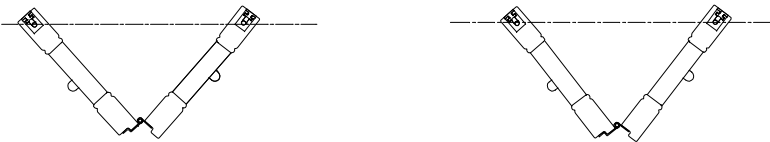
LLLL/RRRR/LLLLRRRR
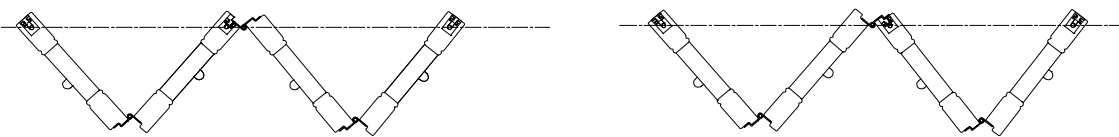
180 Degree Bifold Track Panel Hanger Location:

LL/RR/LLRR
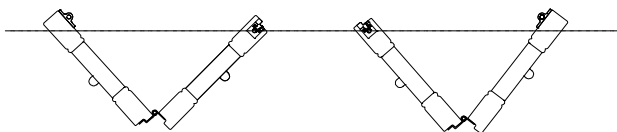
LLL/RRR/LLLRRR
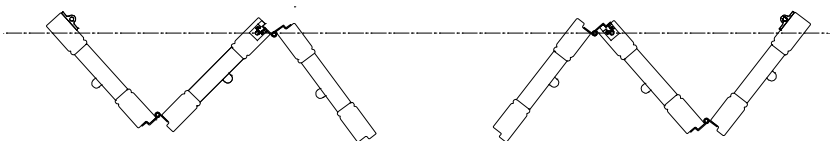
Frame Hinged Bifold Track Panel Hanger Location:

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

LL

RR
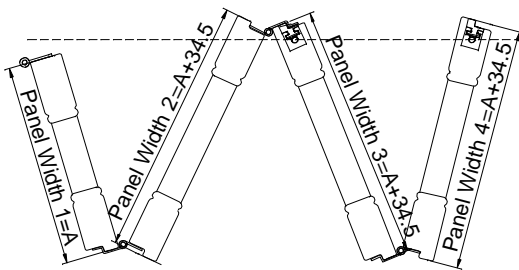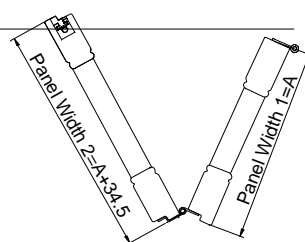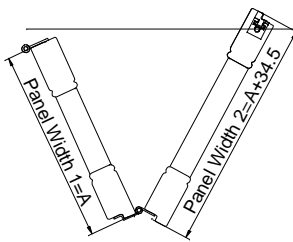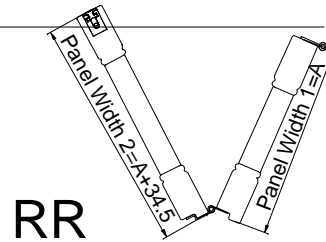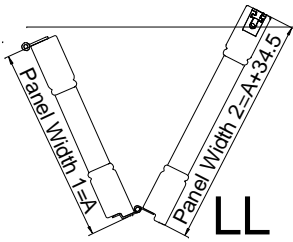
LLRR

LLLLRRRR

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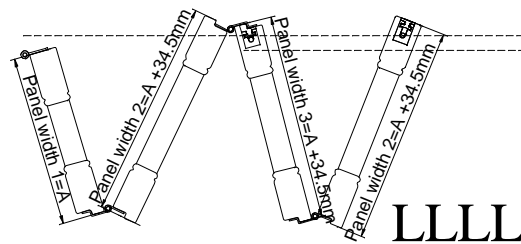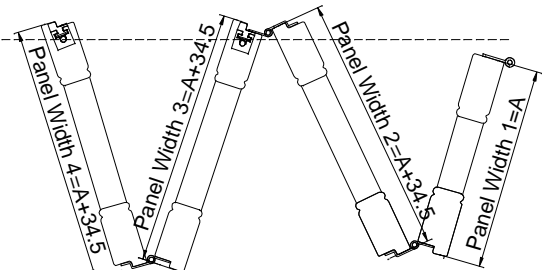
Vintage Hang Strip at Right (frame height matched with that of the left frame)

Vintage Hang Strip at Left (frame height matched with that of the right frame)
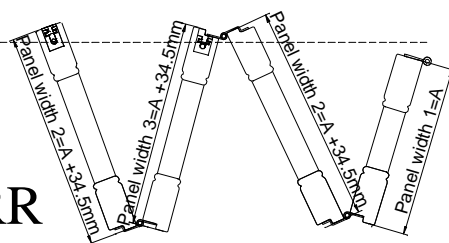
RRRR
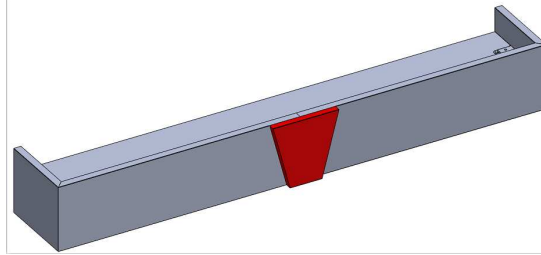
Keystone for Fascia of the Track Shutter

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

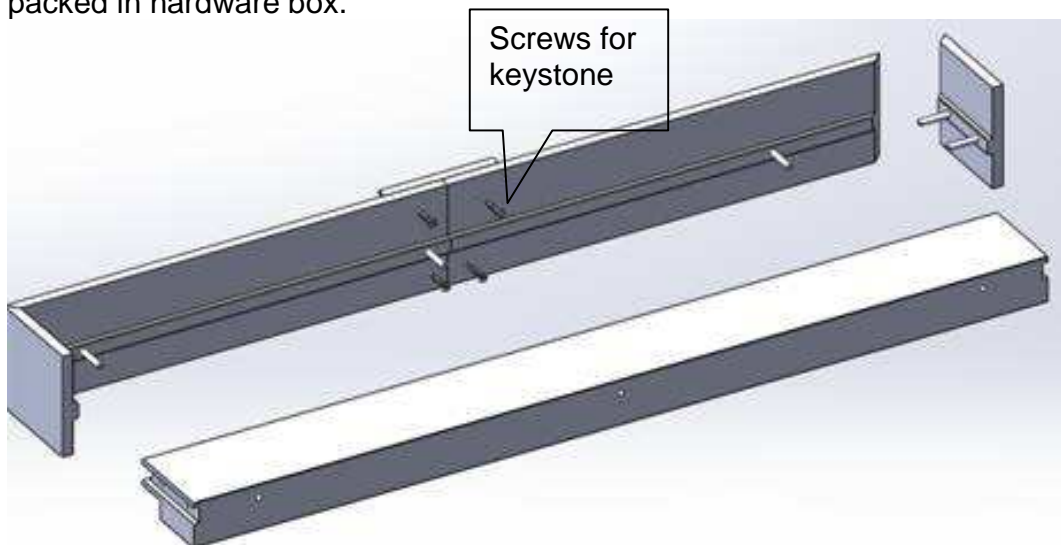For fascia length within the split limitation, keystone can also be supplied as an option with surcharge.
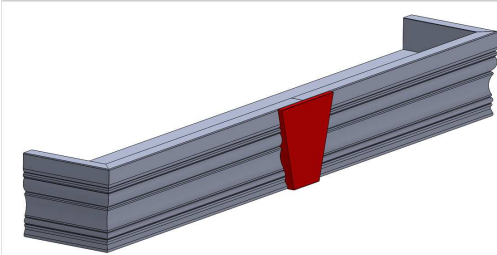
For Deco Fascia: For Flat Fascia:

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

Screws for keystone

Track Shutters—2020 Bypass

Definitions

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

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

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

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

Guidelines and Specs:

Description	Minimum	Maximum		
		1⅞"	2½" ; 3"	3½" ; 4½"
Single-Panel Width (Wood)	6"	30"	36"	42"
Single-Panel Height	10"	132"	132"	132"

Outside Mount
Max frame-to-frame width: window width + 3"
Max frame-to-frame height: window height + 4½''

Semi-Inside Mount
Max frame-to-frame width: window width - $\frac{1}{8}$"
Max frame-to-frame height: window height + 1 $\frac{1}{8}$"

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

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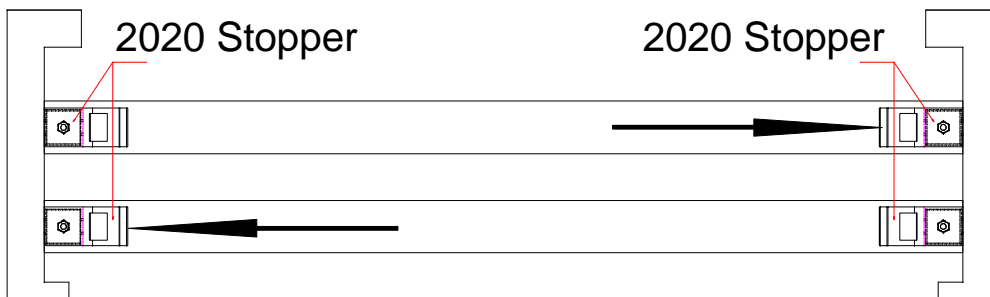Adjustments to panel alignment are made by turning the wheel carrier bolt with the wrench included in the Hardware Box
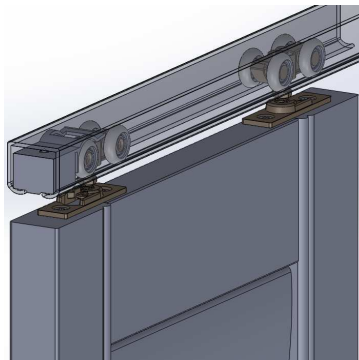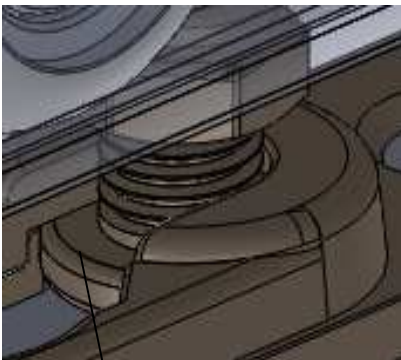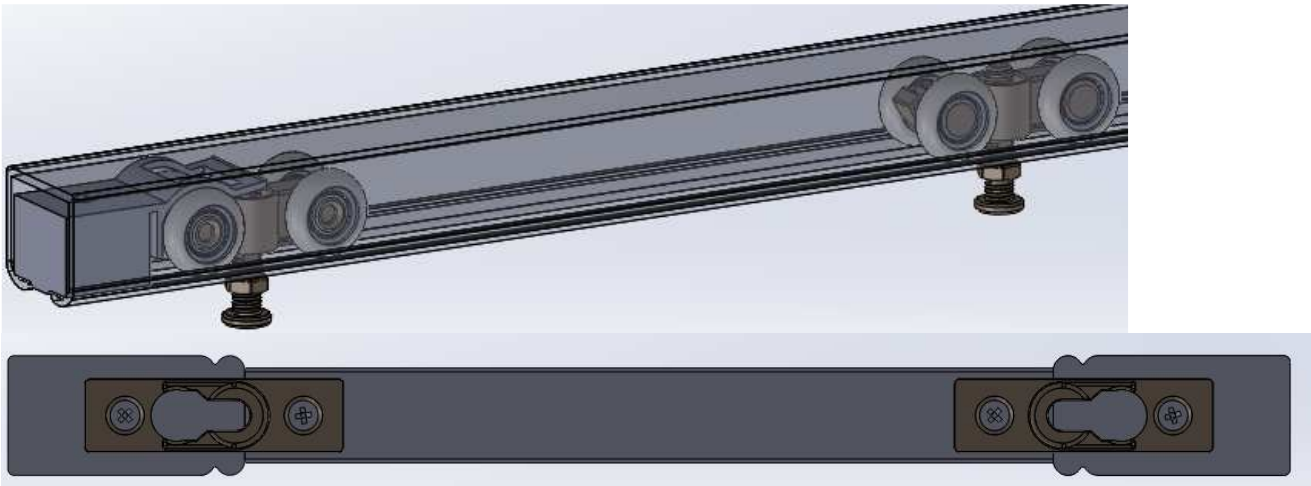
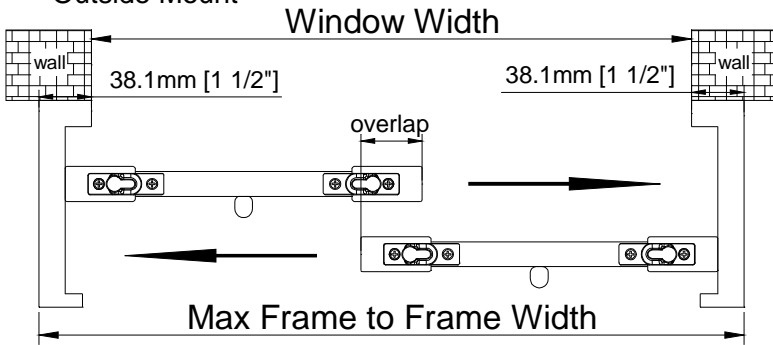Push wheel carrier into the wheel carrier bracket to seat

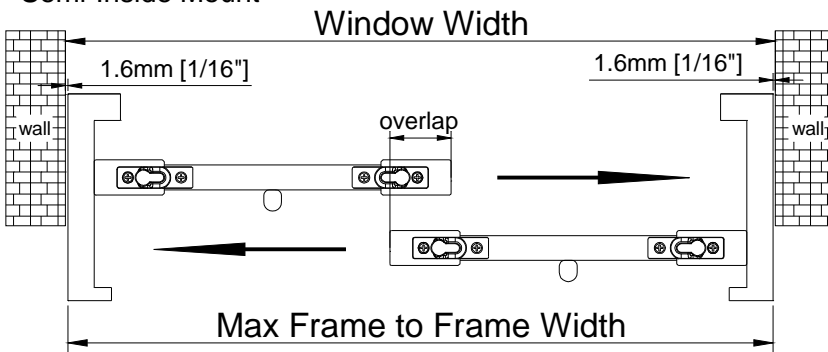Note: 2020 Stopper will be supplied at both ends of top track by default.
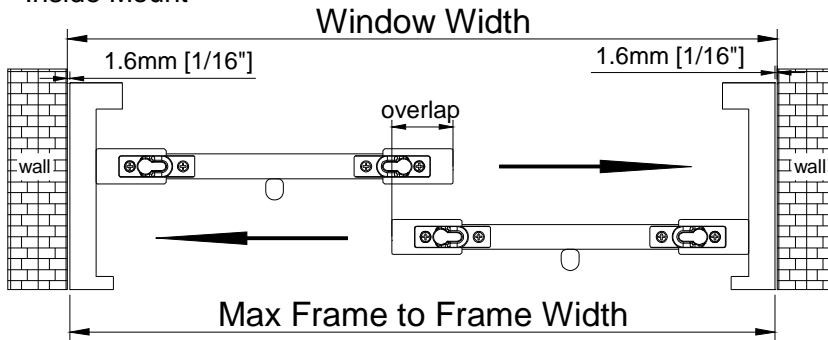
Top View

2020 Stopper   2020 Stopper

Track Shutters—2020 Bypass

Outside Mount

Window Width

wall

38.1mm [1 1/2"]   38.1mm [1 1/2"]   wall

overlap

Max Frame to Frame Width

Semi-Inside Mount

Window Width

1.6mm [1/16"]   1.6mm [1/16"]

wall   wall

overlap

Max Frame to Frame Width

Inside Mount

Window Width

1.6mm [1/16"]   1.6mm [1/16"]

wall   wall

overlap

Max Frame to Frame Width

Top View

Combi - joined Panels:

1 5/8"   Overlap 1½"

2"   2"

1 5/8"

1 5/8"

2"

1 5/8"
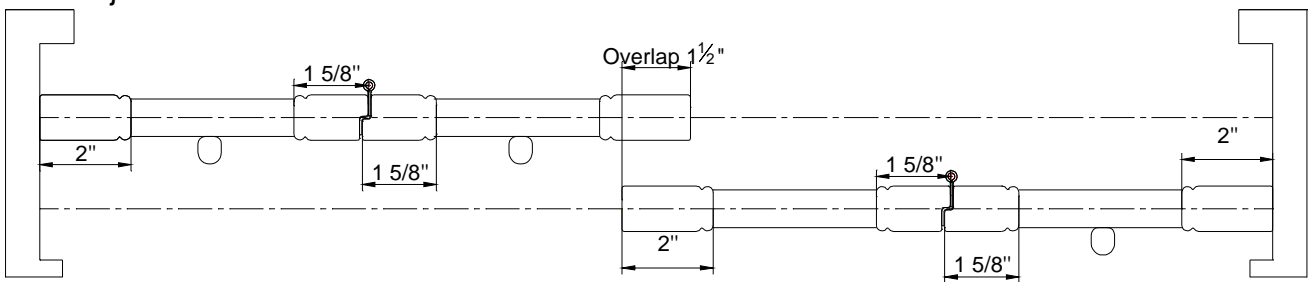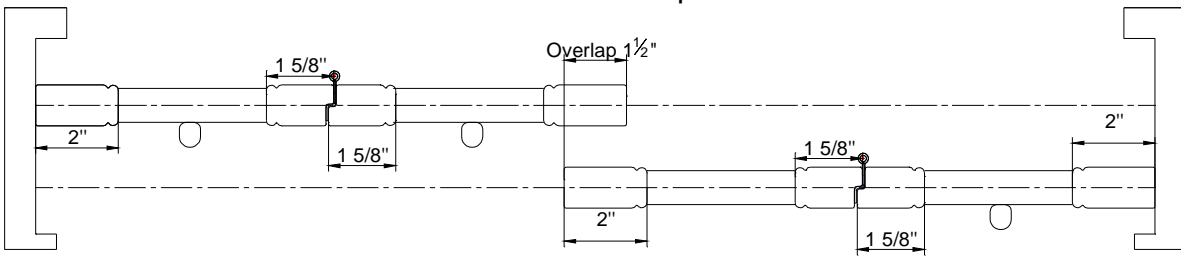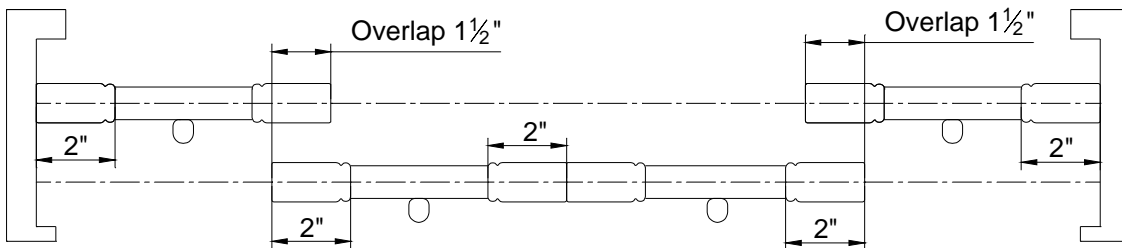
Track Shutters—2020 Bypass

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

Side Open
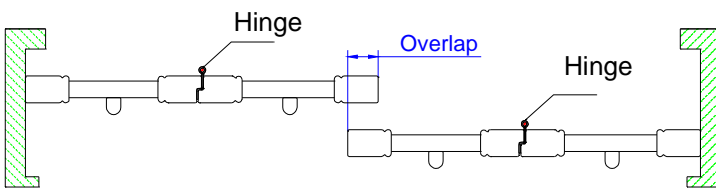
1 5/8"

Overlap 1½"

2"

1 5/8"

2"

1 5/8"

2"

1 5/8"

Center Open

Overlap 1½"

Overlap 1½"

2"

2"

2"

2"

2"

2"

4 panels side open w/Rabbit stile

Hinge

Overlap

Hinge

4 panels center open w/Butt stile

Overlap

Overlap

6 panels side open w/Rabbit stile
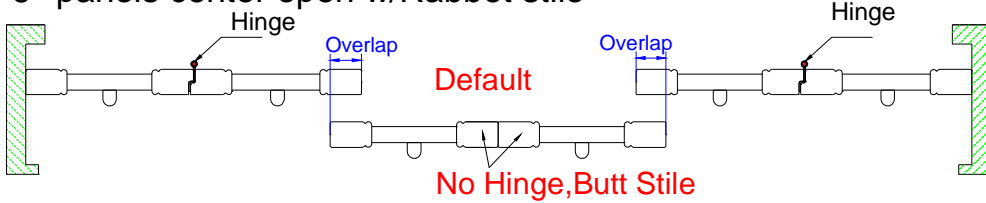
Hinge

Hinge

Overlap

Hinge

Hinge
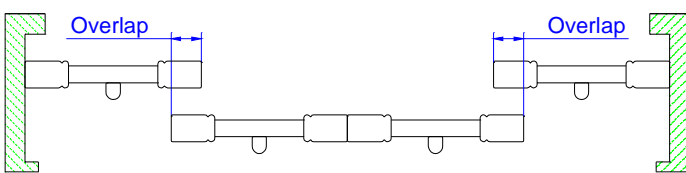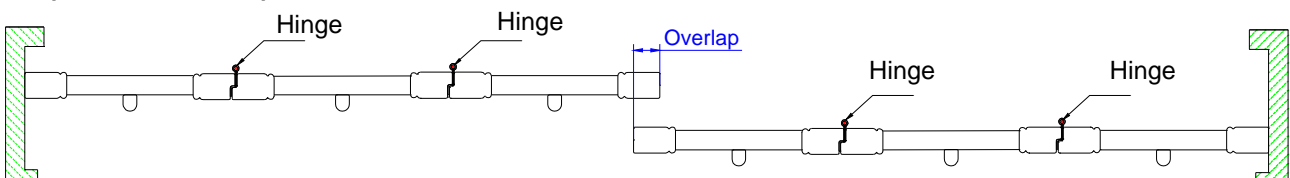
Track Shutters—2020 Bypass

Normandy Shutters

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

Center open Front:

6 panels center open w/Rabbet stile

Hinge   Overlap   Overlap   Hinge

Default

No Hinge,Butt Stile

6 panels center open w/Rabbet stile

Hinge   Overlap   Optional   Overlap   Hinge

Hinge

Combi-Joined Center panels
Rabbet Stile

Center open Back:

6 panels center open back w/Rabbet stile

Overlap   Default   Overlap

Hinge   Hinge

No Hinge,Butt Stile

6 panels center open back w/Rabbet stile

Optional

Hinge

Hinge   Overlap   Overlap   Hinge

Hinge

Combi-Joined Center panels
Rabbet Stile

8 panels side open w/Rabbet stile

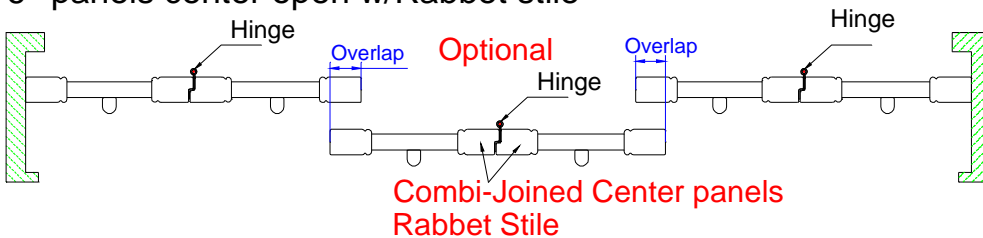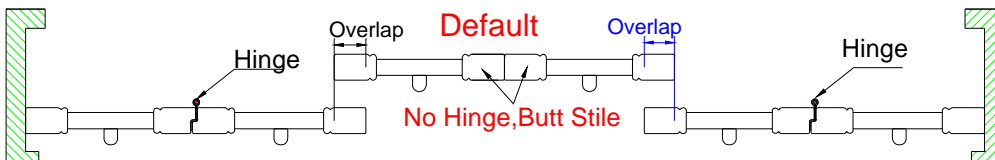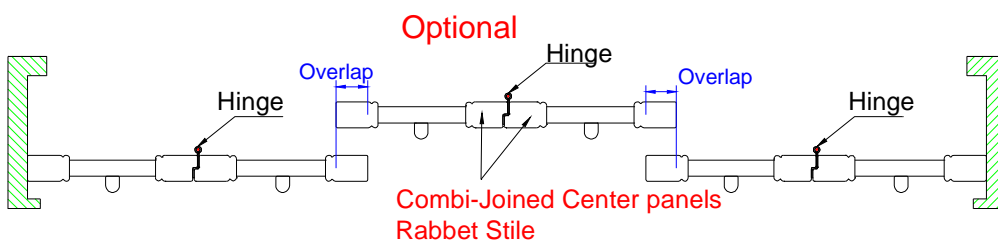Hinge   Hinge   Hinge   Overlap   Hinge   Hinge   Hinge
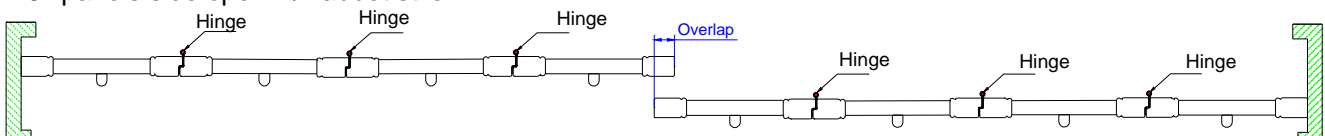
For 8 panels center open configurations, the center panels should split (2/2) by default with the option for them to be combi-joined into a single 4 panel section.

Track Shutters—2020 Bypass

Center open Front:

8 panels center open front w/Rabbet stile

8 panels center open front w/Rabbet stile

Center open Back:

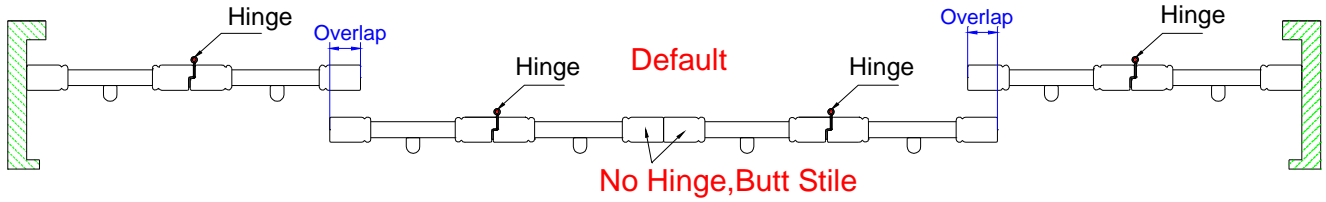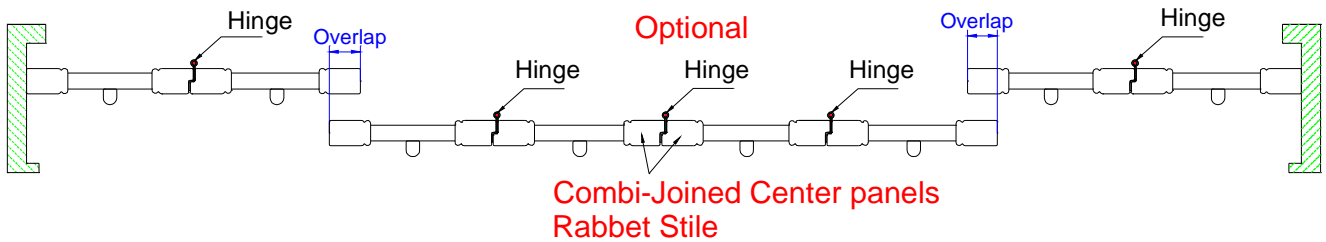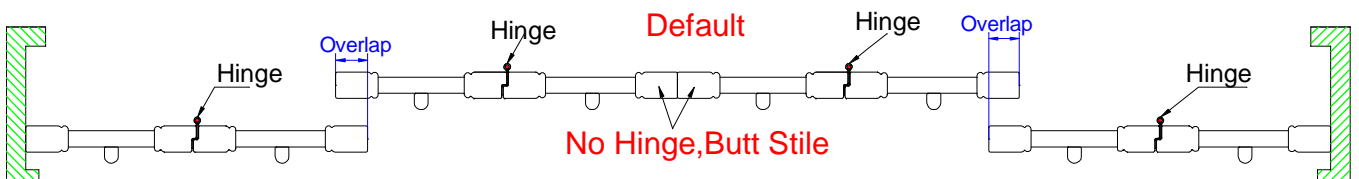8 panels center open back w/Rabbet stile

8 panels center open back w/Rabbet stile
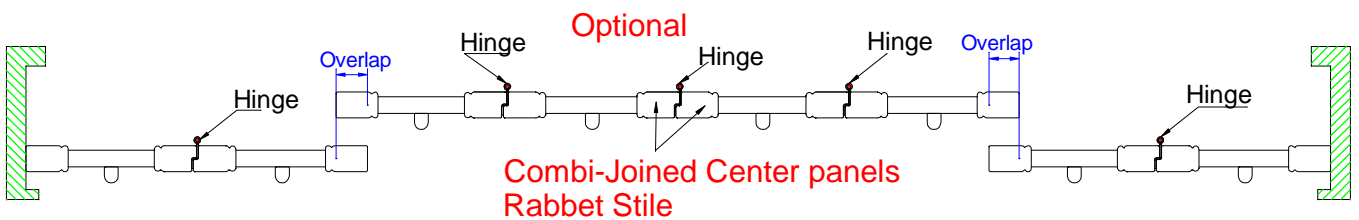
Track Shutters—2020 Bypass
Triple Track

3 panels side open w/Butt stile

Overlap

Overlap

6   panels side open w/Rabbet stile

Hinge

Overlap

Hinge

Overlap

Hinge

6   panels center open w/Butt stile

Overlap

Overlap

Overlap

Overlap

Overlap
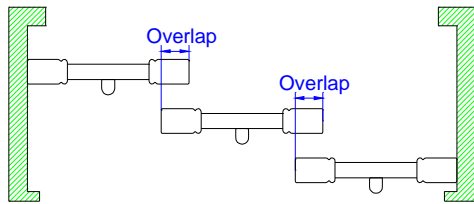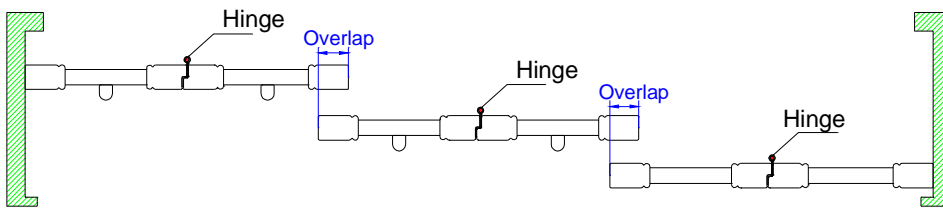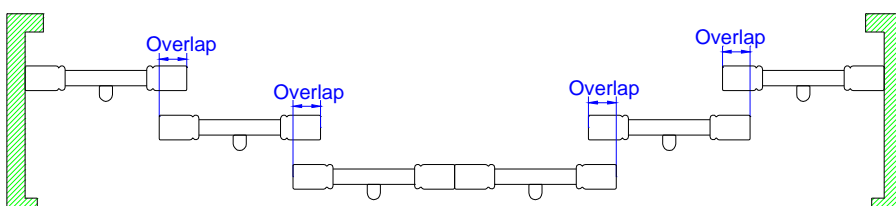
Stile: Only 2" / 2 1/4" butt and rabbet stiles are available;
1 5/8" rabbet stile only used for combi-joined panels for non-motorized shutter and
2 1/4" rabbet stile only used for combi-joined panels for motorized shutter.
Center stile is not available.

Open Bypass:

4   panels center open front w/Butt stile

center open front

Louver

overlap

Overlap

Light block
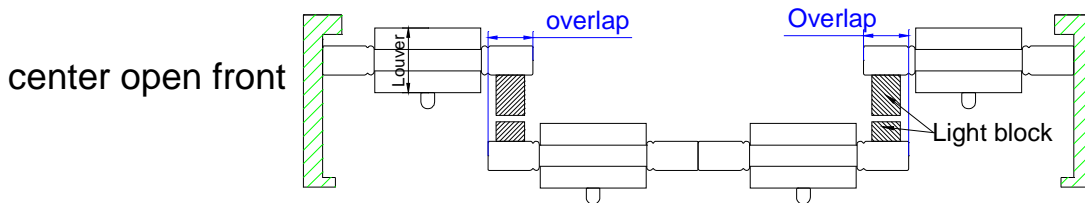
4   panels center open back w/Butt stile
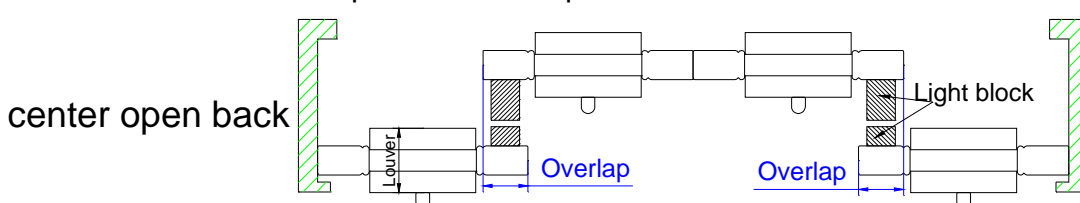
center open back

Louver

Light block

Overlap

Overlap

Track Shutters—2020 Bypass
center open front

6 panels center open front w/Rabbet stile

Default

Hinge Overlap Overlap Hinge

Louver

Light block

No Hinge,Butt Stile

6 panels center open front w/Rabbet stile

Optional

Hinge Overlap Overlap Hinge

Louver

Hinge

Light block

Combi-Joined Center panels
Rabbet Stile

center open back

6 panels center open back w/Rabbet stile

Default

No Hinge,Butt Stile

Hinge Light block Hinge

Louver

Overlap Overlap
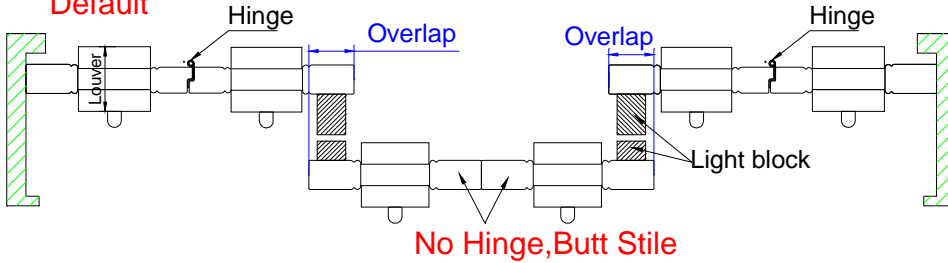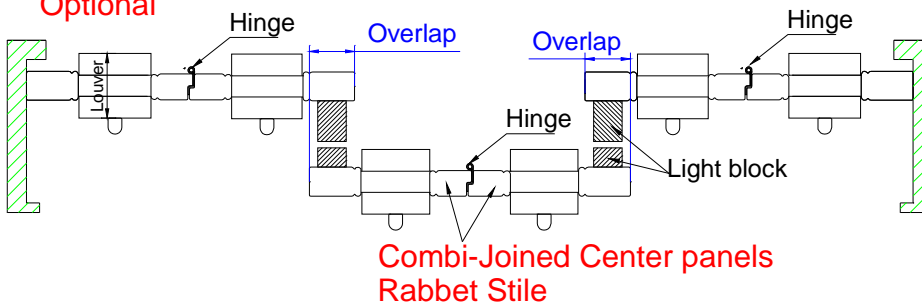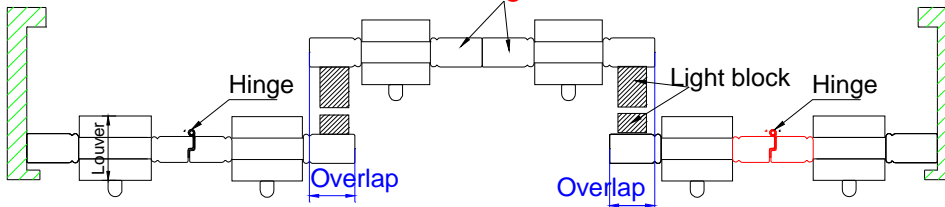
6 panels center open back w/Rabbet stile

Optional Combi-Joined Center panels
Rabbet Stile
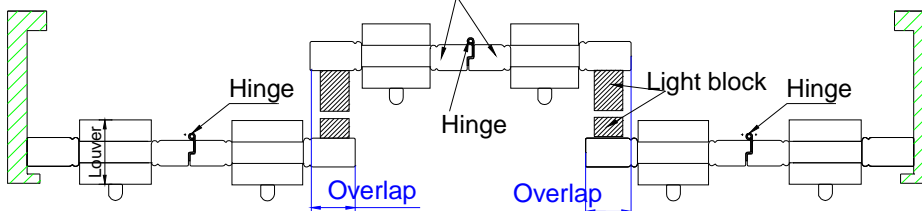
Hinge Light block Hinge

Louver

Hinge

Overlap Overlap

Track Shutters—2020 Bypass
center open front

8 panels center open front w/Rabbet stile

Default
Hinge · Overlap · Louver · Hinge · Overlap · Hinge
Hinge · Hinge · Light block
No Hinge, Butt Stile

8 panels center open front w/Rabbet stile

Optional
Hinge · Overlap · Louver · Hinge · Overlap · Hinge
Hinge · Hinge · Hinge · Light block
Combi-Joined Center panels Rabbet Stile

center open back

8 panels center open back w/Rabbet stile

Default
Overlap · Hinge · Hinge · Overlap
Louver · Light block · Hinge
No Hinge, Butt Stile
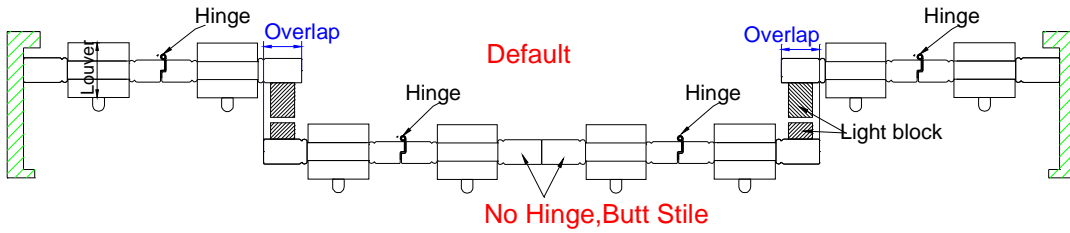
8 panels center open back w/Rabbet stile
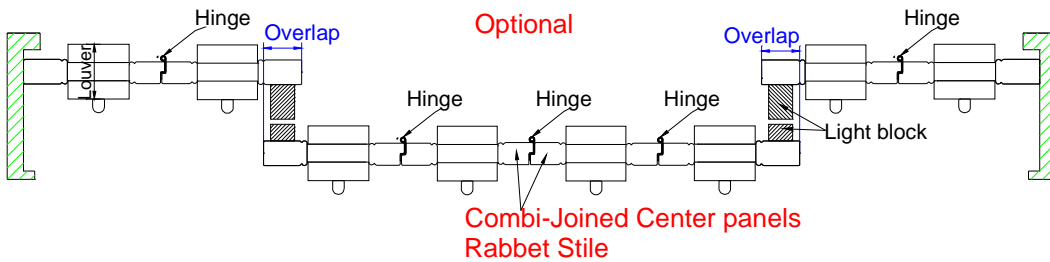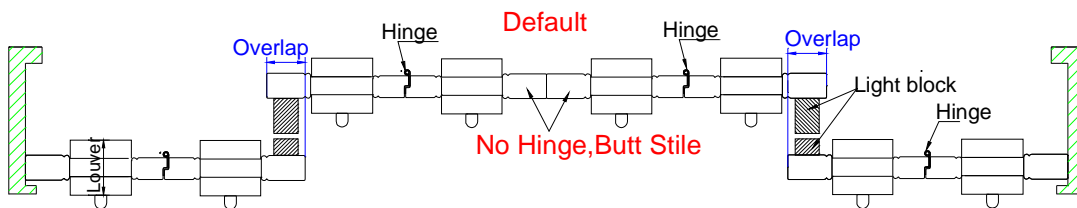
Optional
Overlap · Hinge · Hinge · Hinge · Overlap
Hinge · Louver · Light block · Hinge
Combi-Joined Center panels Rabbet Stile

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

1 1/2"

3/4"
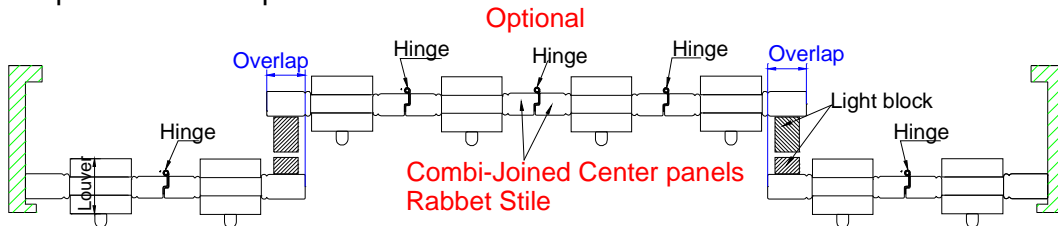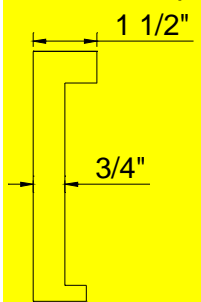
Track Shutters—2020 Bypass
Mounting Options (Closed Bypass)

Side View

Bottom Guide

Floor

Bottom Guide

nylon guide

Floor

28.6mm [1 1/8"]
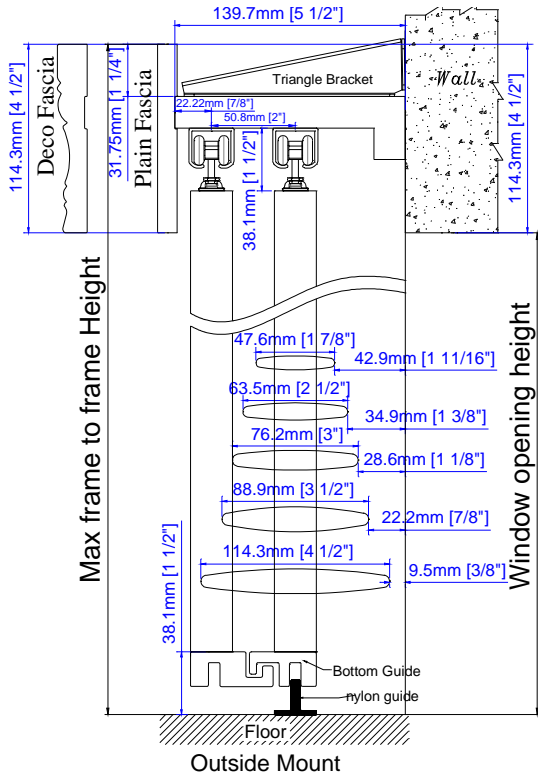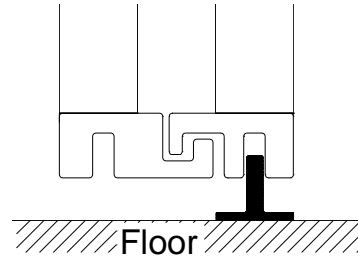
If the closed bypass only uses one track, the U-shaped bottom guide for the open bypass will be used at the bottom of the panel.

Outside Mount

139.7mm [5 1/2"]
Deco Fascia 114.3mm [4 1/2"]
Plain Fascia 31.75mm [1 1/4"]
Triangle Bracket
Wall
114.3mm [4 1/2"]
22.22mm [7/8"]
50.8mm [2"]
38.1mm [1 1/2"]
Max frame to frame Height
Window opening height
47.6mm [1 7/8"]
42.9mm [1 11/16"]
63.5mm [2 1/2"]
34.9mm [1 3/8"]
76.2mm [3"]
28.6mm [1 1/8"]
88.9mm [3 1/2"]
22.2mm [7/8"]
114.3mm [4 1/2"]
9.5mm [3/8"]
38.1mm [1 1/2"]
Bottom Guide
nylon guide
Floor

Semi-inside Mount

114.3mm [4 1/2"]
Deco Fascia 114.3mm [4 1/2"]
Plain Fascia 31.75mm [1 1/4"]
Wall
22.22mm [7/8"]
50.8mm [2"]
38.1mm [1 1/2"]
3.2mm [1/8"]
Max frame to frame Height
Window opening height
47.6mm [1 7/8"]
17.5mm [11/16"]
63.5mm [2 1/2"]
9.5mm [3/8"]
76.2mm [3"]
3.2mm [1/8"]
88.9mm [3 1/2"]
3.2mm [1/8"]
114.3mm [4 1/2"]
38.1mm [1 1/2"]
15.9mm [5/8"]
Bottom Guide
nylon guide
Floor

Inside Mount

114.3mm [4 1/2"]
Wall
Deco Fascia 82.55mm [3 1/4"]
Plain Fascia 82.55mm [3 1/4"]
22.22mm [7/8"]
50.8mm [2"]
38.1mm [1 1/2"]
3.2mm [1/8"]
Max frame to frame Height
Window opening height
47.6mm [1 7/8"]
17.5mm [11/16"]
63.5mm [2 1/2"]
9.5mm [3/8"]
76.2mm [3"]
3.2mm [1/8"]
88.9mm [3 1/2"]
3.2mm [1/8"]
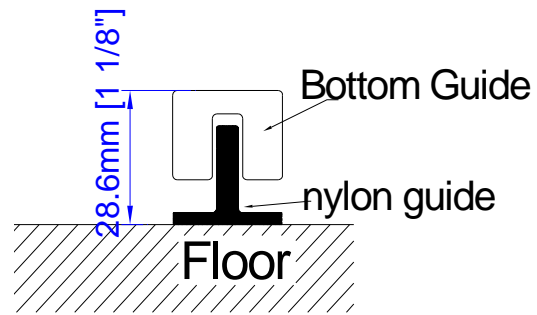114.3mm [4 1/2"]
38.1mm [1 1/2"]
15.9mm [5/8"]
Bottom Guide
nylon guide
Floor

Track Shutters—2020 Bypass

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

Outside Mount (left)

- 7 13/16"
- Triangle Bracket
- Wall
- 114.3mm [4 1/2"] Deco Fascia
- 31.75mm [1 1/4"] Plain Fascia
- 22.22mm [7/8"]
- 50.8mm [2"]
- 50.8mm [2"]
- 114.3mm [4 1/2"]
- 38.1mm [1 1/2"]
- Max frame to frame Height
- Window opening height
- 47.6mm [1 7/8"]
- 52.4mm [2 1/16"]
- 63.5mm [2 1/2"]
- 44.4mm [1 3/4"]
- 76.2mm [3"]
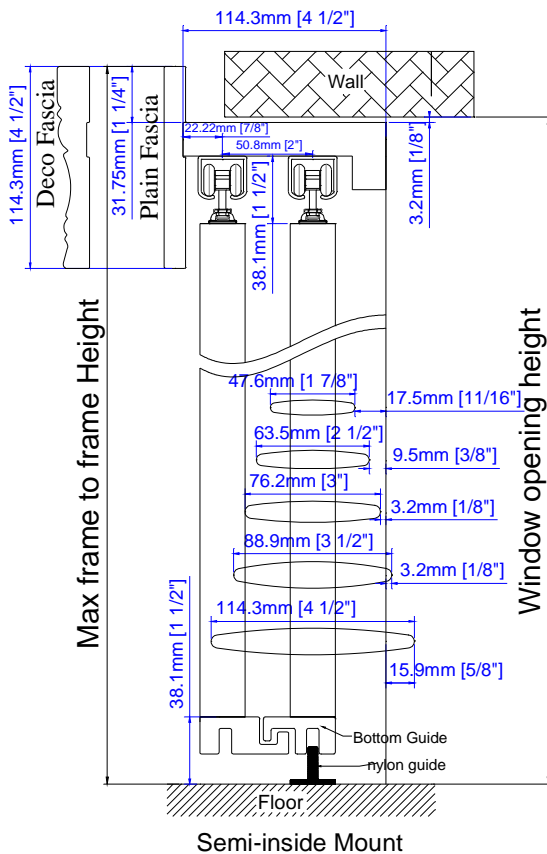- 38.1mm [1 1/2"]
- 88.9mm [3 1/2"]
- 31.7mm [1 1/4"]
- 114.3mm [4 1/2"]
- 19mm [3/4"]
- 38.1mm [1 1/2"]
- Bottom guide
- nylon guide
- Floor

Outside Mount (right)

- 160mm [6 1/4"]
- Triangle Bracket
- Wall
- 114.3mm [4 1/2"] Deco Fascia
- 31.75mm [1 1/4"] Plain Fascia
- 22.22mm [7/8"]
- 50.8mm [2"]
- 50.8mm [2"]
- 114.3mm [4 1/2"]
- 38.1mm [1 1/2"]
- Max frame to frame Height
- Window opening height
- 47.6mm [1 7/8"]
- 12.4mm [1/2"]
- 63.5mm [2 1/2"]
- 4.4mm [3/16"]
- 76.2mm [3"]
- 1.9mm [1/16"]
- 88.9mm [3 1/2"]
- 8.3mm [5/16"]
- 114.3mm [4 1/2"]
- 21mm [13/16"]
- 38.1mm [1 1/2"]
- Bottom guide
- nylon guide
- Floor

Semi-inside Mount (left)

- 7 13/16"
- Wall
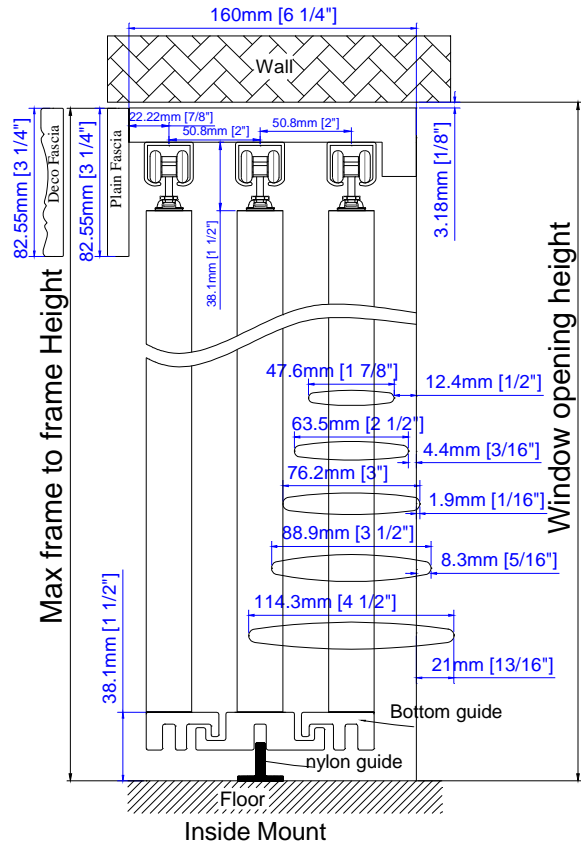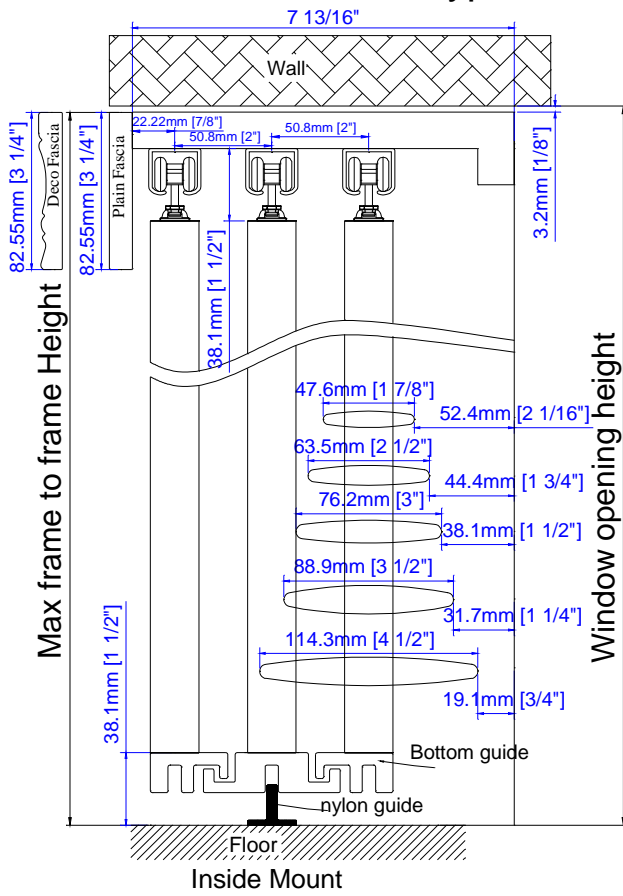- 114.3mm [4 1/2"] Deco Fascia
- 31.75mm [1 1/4"] Plain Fascia
- 22.22mm [7/8"]
- 50.8mm [2"]
- 50.8mm [2"]
- 3.2mm [1/8"]
- 38.1mm [1 1/2"]
- Max frame to frame Height
- Window opening height
- 47.6mm [1 7/8"]
- 52.4mm [2 1/16"]
- 63.5mm [2 1/2"]
- 44.4mm [1 3/4"]
- 76.2mm [3"]
- 38.1mm [1 1/2"]
- 88.9mm [3 1/2"]
- 31.7mm [1 1/4"]
- 114.3mm [4 1/2"]
- 19.1mm [3/4"]
- 38.1mm [1 1/2"]
- Bottom guide
- nylon guide
- Floor

Semi-inside Mount (right)

- 160mm [6 1/4"]
- Wall
- 114.3mm [4 1/2"] Deco Fascia
- 31.75mm [1 1/4"] Plain Fascia
- 22.22mm [7/8"]
- 50.8mm [2"]
- 50.8mm [2"]
- 3.18mm [1/8"]
- 38.1mm [1 1/2"]
- Max frame to frame Height
- Window opening height
- 47.6mm [1 7/8"]
- 12.4mm [1/2"]
- 63.5mm [2 1/2"]
- 4.4mm [3/16"]
- 76.2mm [3"]
- 1.9mm [1/16"]
- 88.9mm [3 1/2"]
- 8.3mm [5/16"]
- 114.3mm [4 1/2"]
- 21mm [13/16"]
- 38.1mm [1 1/2"]
- Bottom guide
- nylon guide
- Floor

Track Shutters—2020 Bypass

Wall

7 13/16"

160mm [6 1/4"]

82.55mm [3 1/4"] — Deco Fascia
82.55mm [3 1/4"] — Plain Fascia

22.22mm [7/8"]
50.8mm [2"]
50.8mm [2"]

38.1mm [1 1/2"]

3.2mm [1/8"]

Max frame to frame Height

Window opening height

47.6mm [1 7/8"]
52.4mm [2 1/16"]
63.5mm [2 1/2"]
44.4mm [1 3/4"]
76.2mm [3"]
38.1mm [1 1/2"]
88.9mm [3 1/2"]
31.7mm [1 1/4"]
114.3mm [4 1/2"]
19.1mm [3/4"]

38.1mm [1 1/2"]

Bottom guide
nylon guide
Floor

Inside Mount

82.55mm [3 1/4"] — Deco Fascia
82.55mm [3 1/4"] — Plain Fascia

22.22mm [7/8"]
50.8mm [2"]
50.8mm [2"]

38.1mm [1 1/2"]

3.18mm [1/8"]

Max frame to frame Height

Window opening height

47.6mm [1 7/8"]
12.4mm [1/2"]
63.5mm [2 1/2"]
4.4mm [3/16"]
76.2mm [3"]
1.9mm [1/16"]
88.9mm [3 1/2"]
8.3mm [5/16"]
114.3mm [4 1/2"]
21mm [13/16"]

38.1mm [1 1/2"]

Bottom guide
nylon guide
Floor

Inside Mount

Mounting Options (Opened Bypass)   Only available in 2 ½", 3", 3 ½" and 4 ½" louver sizes

2 ½" Louver

160mm [6 1/4"]

114.3mm [4 1/2"] — Deco Fascia
31.75mm [1 1/4"] — Plain Fascia

Triangle Bracket

22.2mm [7/8"]
90mm [3 9/16"]

114.3mm [4 1/2"]

38.1mm [1 1/2"]

Max Frame to Frame Size

Window Size

63.5mm [2 1/2"]
63.5mm [2 1/2"]

16mm [5/8"]

28.6mm [1 1/8"]

Bottom Guide
nylon guide
Floor

Outside Mount

160mm [6 1/4"]

Wall

114.3mm [4 1/2"] — Deco Fascia
31.75mm [1 1/4"] — Plain Fascia

22.2mm [7/8"]
90mm [3 9/16"]

3.2mm [1/8"]

38.1mm [1 1/2"]

Max Frame to Frame Size

Window Size

63.5mm [2 1/2"]
63.5mm [2 1/2"]

16mm [5/8"]

28.6mm [1 1/8"]

Bottom Guide
nylon guide
Floor

Semi-inside Mount

Track Shutters—2020 Bypass

Inside Mount

3" / 3 ½" Louver

Outside Mount

Semi-inside Mount

Track Shutters—2020 Bypass

Normandy Shutters

7 13/16"

Wall

Deco Fascia 82.5mm [3 1/4"]

Plain Fascia 82.55mm [3 1/4"]

22.2mm [7/8"]

114mm [4 1/2"]

38.1mm [1 1/2"]

3.2mm [1/8"]

Max Frame to frame height

Window Opening height

76.2mm [3"]

76.2mm [3"]

25.7mm [1"]

88.9mm [3 1/2"]

88.9mm [3 1/2"]

19.3mm [3/4"]

28.6mm [1 1/8"]

Bottom Guide

nylon guide

Floor

Inside Mount

Bottom guide for Open Bypass:

Default Bottom Guide

Optional Interlocking Bottom Guide

Triangle Bracket

Triangle Bracket

Deco Fascia

Plain Fascia

Deco Fascia

Plain Fascia

28.6mm [1 1/8"]

38.1mm [1 1/2"]

Bottom Guide

nylon guide

Bottom Guide

nylon guide

Floor

Floor

Default Bottom Guide

Optional Interlocking Bottom Guide

Track Shutters—2020 Bypass

4 ½" Louver (Only available for the order with U-shape Bottom Guide and InvisibleTilt®**)**

Outside Mount

Semi-inside Mount

Inside Mount

Track Shutters—2020 Bypass

Opened Bypass

Top View

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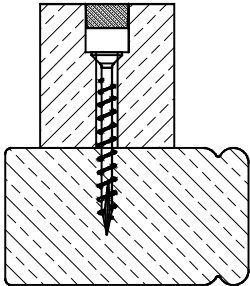
Separation of track

Louver	U shape bottom guide		Interlocking bottom guide	
	Regular Tilt Rod	InvisibleTilt®	Regular Tilt Rod	InvisibleTilt®
2.5"	3 9/16"	2 3/4"	3 9/16"	3 9/16"
3" / 3.5"	4 1/2"	3 5/8"	4 1/2"	4 1/2"
4.5"	NA	4 3/4"	NA	NA

Light block thickness for panel

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

Track Shutters—2020 Bypass

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

With the top part removed
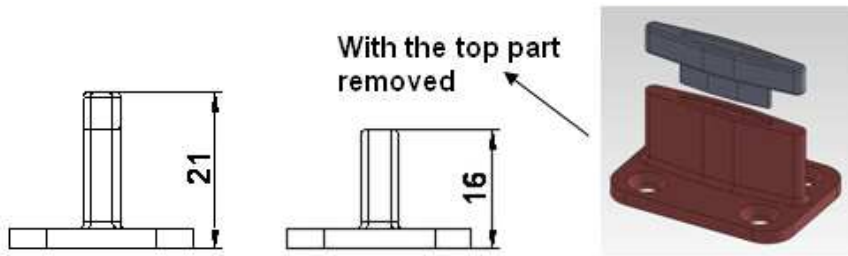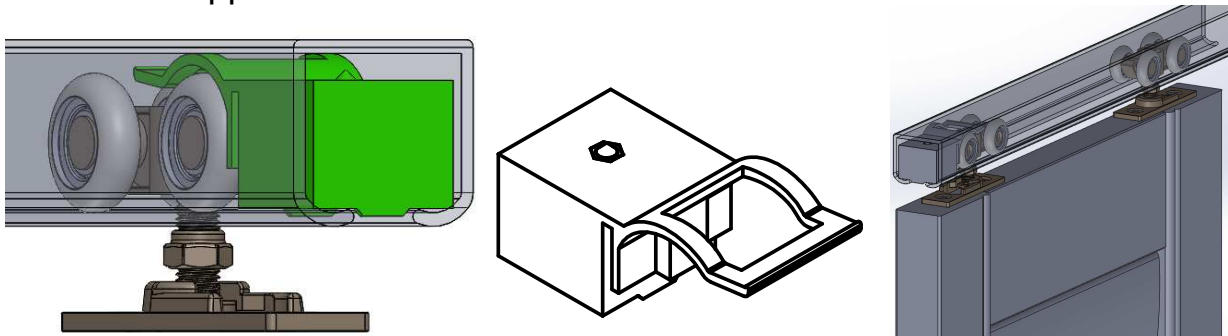
The 2020 Stopper

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

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

2020 Stopper at sides (Default)

2020 Stopper at sides (Default)

Optional: 2020 Stopper at center or any position

2020 Stopper at sides (Default)

2020 Stopper at sides (Default)

Optional: 2020 Stopper at center or any position
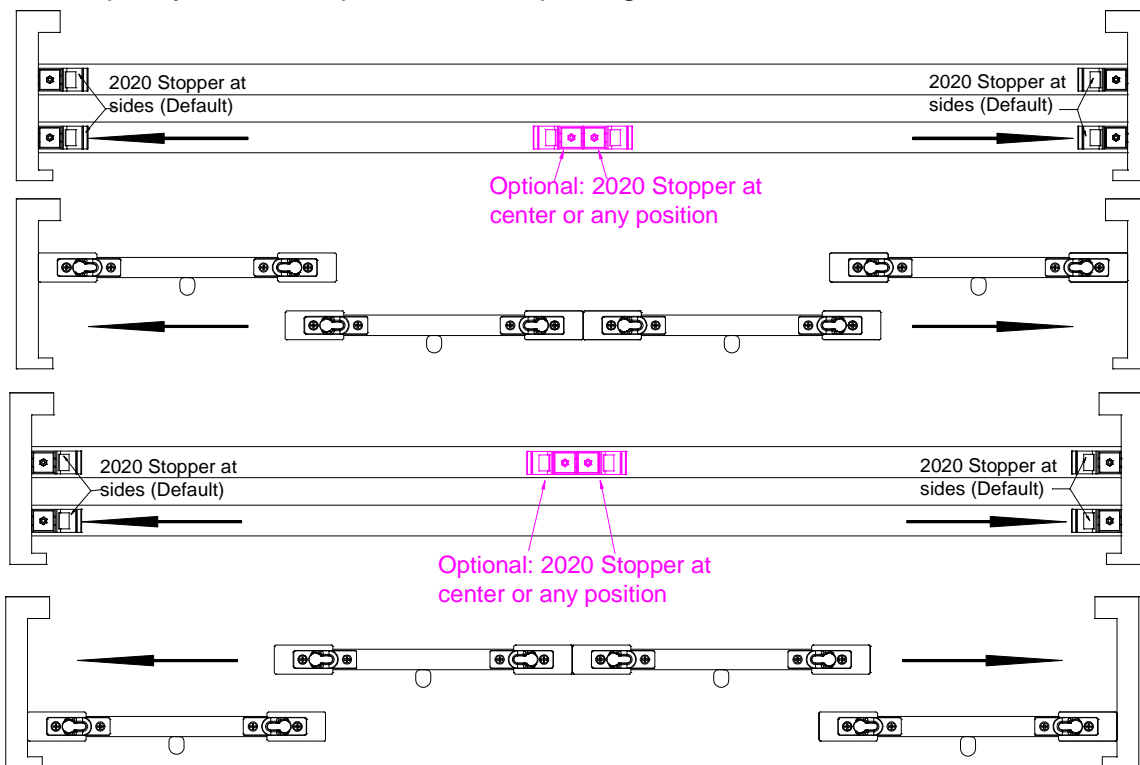
Track Shutters—2020 Bypass
Track Shutters Framing Materials

Framing	Size				Pc(s)
L Shape Header	**Header (Closed Bypass)**	**Header (Opened Bypass)**	**Supporting Strip**		
(2 in 1)	¾" x 5½"[*] (Default for Outside Mount; Optional for Semi-Inside and Inside Mount)	¾" x 6¼"[*] (2½" Louver)	¾" x ¾"		1 pc
Header with Supporting Strip	¾" x 4½"[*] (Default for Semi-Inside and Inside Mount; Optional for Outside Mount)	¾" x $7^{13}/_{16}$"[*] (3",3½" Louver)			
		¾" x 8 ⅝"[*] (4½" Louver)			
	Custom [*] $\leq$ 8"*	Custom [*] $\leq$ 8"*			
U Shape Side Frame	**Side Frame (Closed Bypass)**	**Side Frame (Opened Bypass)**	**Supporting Strip**	**Side Fascia**	
(3 in 1)	¾" x 5 7/8"[*] (Default for Outside Mount; Optional for Semi-Inside and Inside Mount)	¾" x 6 ⅝"[*] (2½" Louver)	¾" x ¾"	⅜" x 1¼"	2 pcs
Side Frame with Supporting Strip & Side Fascia	¾" x 4 7/8"[*] (Default for Semi-Inside and Inside Mount; Optional for Outside Mount)	¾" x 8¼"[*] (3", 3½" Louver)			
		¾" x 9"[*] (4½" Louver)			
	Custom [*] $\leq$ 8"*	Custom [*] $\leq$ 8"*			
Top Fascia (Plain/Deco)	4 1/2" (Semi-inside and Outside Mount)				1 pc
	3 1/4" (Inside Mount)				
Top Fascia Return	4 1/2" (Semi-inside and Outside Mount)				2 pcs
	N/A (Inside Mount)				

Note:
- When the header size is 4½"[*], 5½"[*], 6¼"[*], $7^{13}/_{16}$"[*] or 8 ⅝"[*], the L Shape header and the U Shape Side Frame will be sent integrally. That is:
1. The header and the supporting strip will be sent integrally as L Shape Header;
2. The side frame, supporting strip and the side fascia will be sent integrally as U Shape Side Frame.
3. 8 ⅝"[*] L Shape header and 9"* U shape side frame are only available for 4 1/2" louver Open Bypass with U-shape Bottom Guide and InvisibleTilt®.

- For any custom header sizes other than 4½"[*], 5½"[*], 6¼"[*], $7^{13}/_{16}$"[*] or 8 ⅝"[*] the L Shape Header and the U Shape Side Frame will be sent separately. That is:
1. The header and the supporting strip will be sent separately for L Shape Header;
2. The side frame, supporting strip and the side fascia will be sent separately for U Shape Side Frame.

Track Shutters—2020 Bypass

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

- For Outside Mount Bypass, the maximum custom header depth is 8", and the maximum possible header depth with an extension can be up to 8 5/8". When the standard boxout / header depth is 7 13/16", a custom extension up to ¾" can be added to the header depth for a total maximum depth of 8 5/8".
- For Inside Mount and Semi-Inside Mount Bypass, the custom header size can reach to 8", and the extension thickness of header can reach to 2".

Hardware Box

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

Keystone for Fascia of the Track Shutter

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

For fascia length within the split limitation, keystone can also be supplied as an option with surcharge.
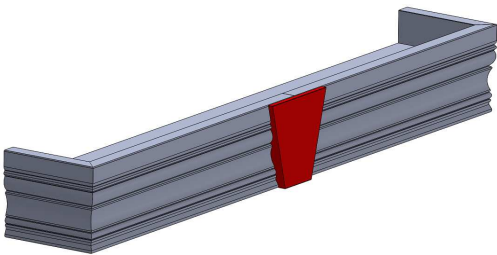
For Deco Fascia: For Plain Fascia:
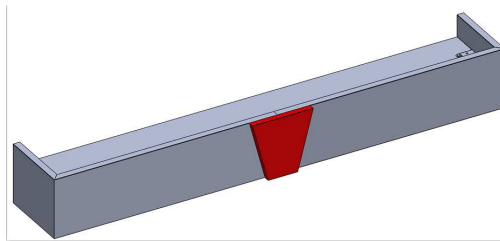
The keystone will be installed by screws. We will pre-drill the screw holes and the screws will be packed in hardware box.

Track Shutters—2020 Bypass

Screws for keystone
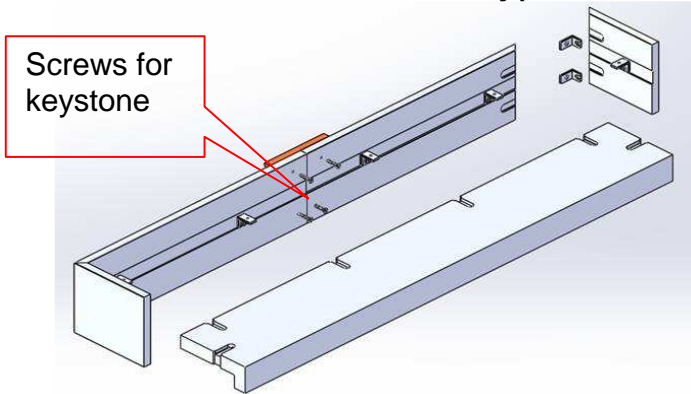
Plastic L Bracket to Connect the Header, Fascia & Fascia Returns

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

OM & Semi-IM
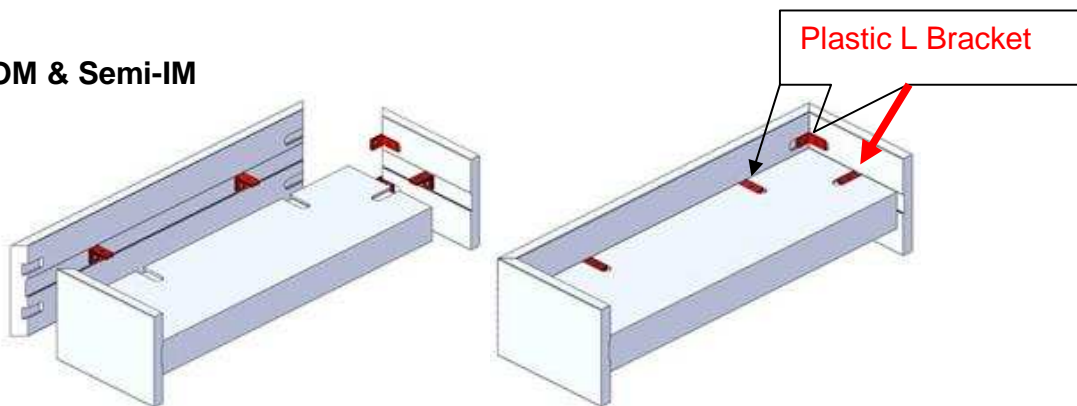
Plastic L Bracket

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

Share even gap

Share even gap

Track Shutters—2020 Bypass

Plastic L Bracket

Plastic L Bracket

IM

Plastic L Bracket
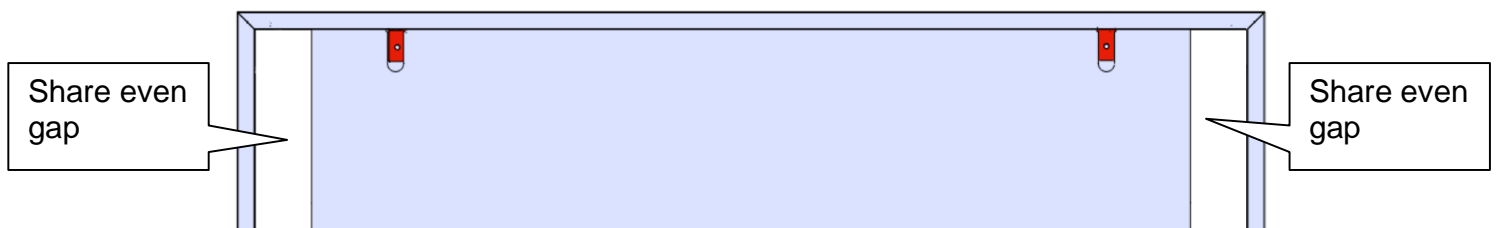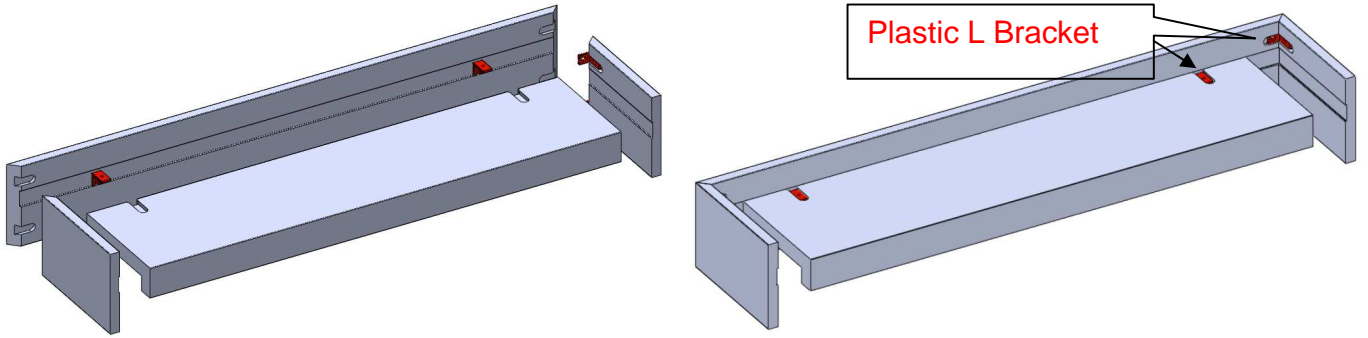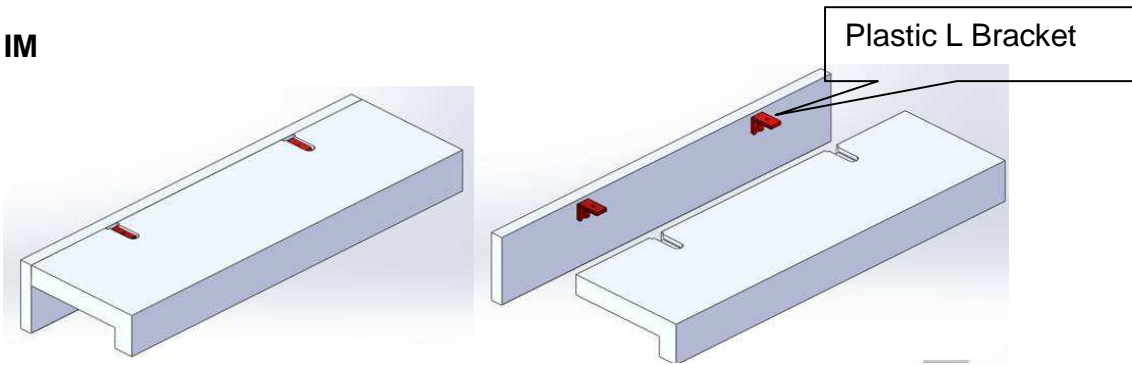
Special Options

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.
- When the height of the framing material (including t-posts) exceeds the panel height, by more than 5", a surcharge will apply.

Double-Hung Shutters*

- For total number of panels, please include panels in both rows.
- For panel configuration, please provide panel fold for one row.
- The default location for the division point is the center unless specified otherwise.
- Horizontal T Post* can be added for   increased structural integrity.
- The length of Horizontal T post in each section must be less than or equal to 48".
- For Double Hung shutter, whenever an upper or lower panel is larger than 78", we will add one more extra hinge for it, we will also attempt to create larger top/bottom rails for additional strength by reducing the number of louvers by one as long as the rail sizes remain within spec.

Fixed Louvers

Fixed Louvers
- Closed (Default)
  - Dress Down
  - Dress Up
- Opened
  - Dress Down
  - Dress Up

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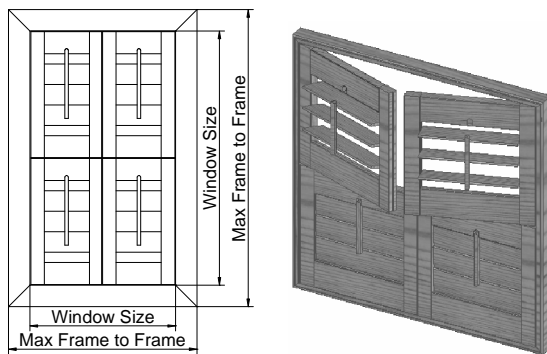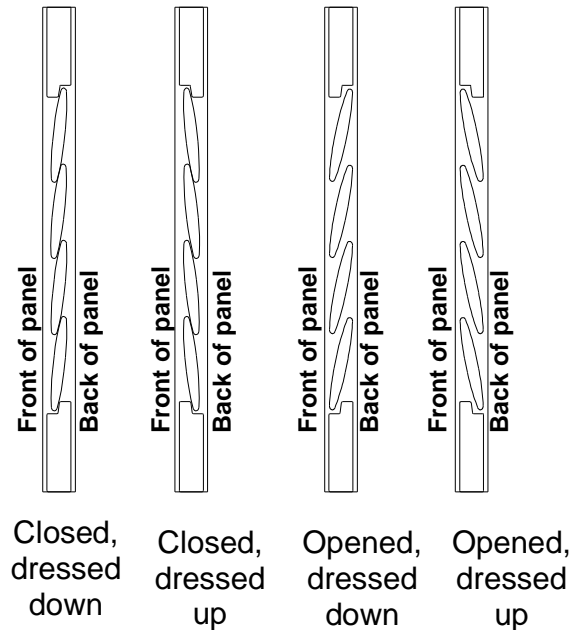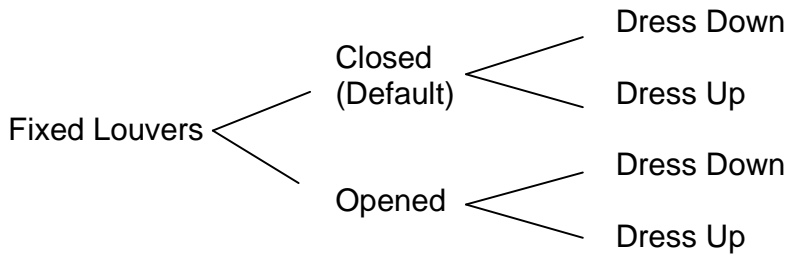
Fixed louvers Closed Dress Down and Fixed louvers Opened Dress Down are not available for all specialty shutters except all French Door Type E,F and Type A,B,C&D without fixed louver(s) which did not choose "Arch type" option.

French Door Cut-out Collection[*]

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

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

- For measurement details please refer to Form section.
- French Door cutouts with Arch/Quarter Arch at the top are also available except Type E and F.
- Vintage L frame with 1/4" light block and Beaded L frame with 1/4" light block are not available for French door Type A, B, C & D.

Type A   Type B   Type C   Type D   **Type E**   **Type F**
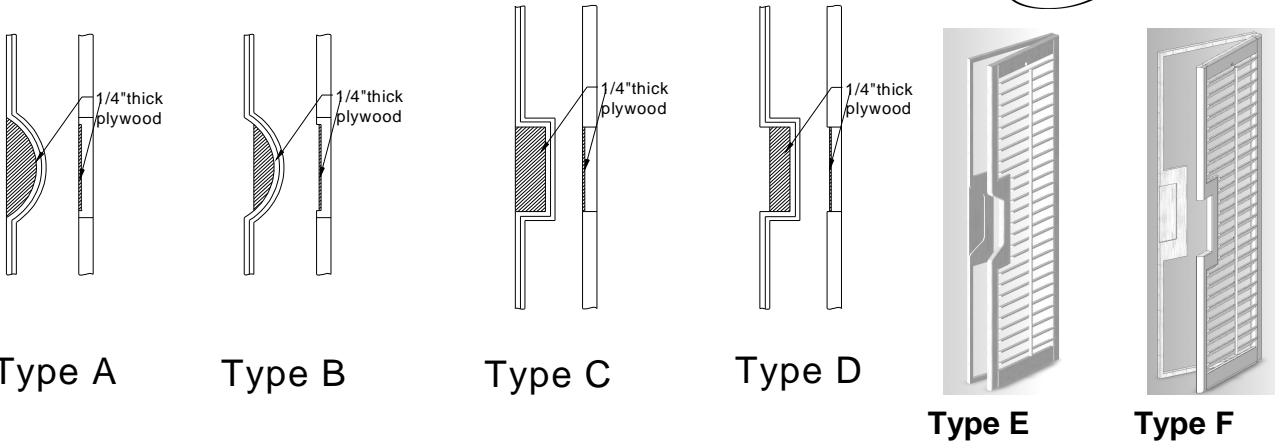
Custom Colors *

Available in Normandy® shutters.

Option (Color Code)	Sample Size	Confirmation Process
Custom Solid (C01)	A 4"x4" coated foam core or poster board.	All orders require customers to confirm an **actual swatch** which will be returned in the mail before production will commence. An additional shipping and handling fee applies.
Custom Stain (C02)	Raw shutter louvers (order via sample site: SKU# CSKN-01), or a 4" long piece of an existing stained wood shutter louver.	

*Samples sent to the factory will not be returned.

Note:

1) All custom colors will be finished with the standard gloss used on all Norman products.

2) Please be aware that we will only be able to match the tone and not the texture or finish of the sample you submit.

3) Only one color revision will be allowed during the color confirmation process.

4) Custom color does not apply to hardware or accessories.

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

*Some surcharges apply

Normandy® Shutters

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

Disclaimer:

Sherwin Williams ColorSnap (MWCS),
Sherwin Williams Designer Expressions (MWDE),
Benjamin Moore Classic (MBMC)   (M2460009TL) &
Benjamin Moore Preview (MBMP)   (M2440564TL)
Benjamin Moore, Off White Collection M2451888TL
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∗For better tracking and minimal customs delays we recommend using Fedex/DHL. Please do not use the USPS - United States Postal Service.

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

DELIVER TO CHINA FACTORY **For Custom Paint sample on foam core or poster board ONLY**		DELIVER TO CHINA FACTORY **For Custom Stain or Paint sample on Wood material ONLY**	
Attention	Liu Ya Yi (Shutter Factory)	Attention	Mr. Wang
Company	NienMade (DongGuan) Window Fashions Co., Ltd.	Company	Draco Logistics Co., Ltd.
	No. 1, Zhao Feng Industrial South Road, QiShi Town, DongGuan City, GuangDong Province China 523517		Unit 616, 6/F, Pacific Trade Centre No.2 Kai Hing Road Kowloon Bay, Hong Kong, China, 999077
Telephone:	+86-769-867-16666	Telephone:	26283018

*Some surcharges apply

Shutters to be installed in Angled or Horizontal Skylight Window Openings

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

Available Material	Normandy Shutters
Available Frame Type	Frame with light block thickness not less than 3/4"; Frames with frame insert on the face side (such as all vintage L frames / all Insert T-posts) are not available.
Max Panel Size	26" W x 78"H
Tilt Rod	InvisibleTilt®
Panel Configuration	single panel or single panels with T-Posts
Hardware for unhinged side	Panel Lock on top and bottom + 2 Button Catches

AutoTilt™ (Patented) *

Available in Bifold or Multi-fold panel configuration
Available with InvisibleTilt® Only
Available in 2" Butt, Astragal and Rabbet Stile
Minimum Louver Qty (Please see below for details)
Ring pulls included automatically. For ring pull location, please refer to the ring pull section.
Ring pulls are default. Curved Hidden and Rectangle Hidden handles are optional.

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

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

Panel with No divider rail/No split tilt
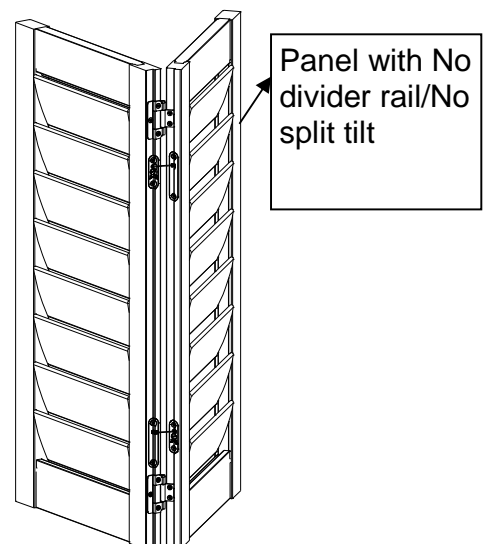
When there is more than one louver sections (with divider rail/ split tilt)

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

Panel with divider rail or split tilt
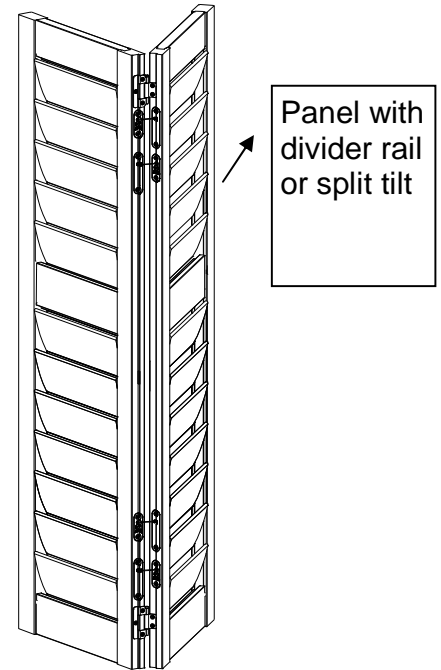
Standard frame cutouts: R cutout, S cutout, L cutout, C cutout. The sizes can vary.

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

The cutout can be on the top and the bottom of the frame
Available Frame Types:
1) All types of the L/Deco/Z frames;
2) All standard sill plates for Deco/Z Frame.

1/2" 3/8" 0.375"deep x 0.5"wide 3/8" 1/2"

1" 3/8" 0.375"deep x 1"wide 3/8" 1"
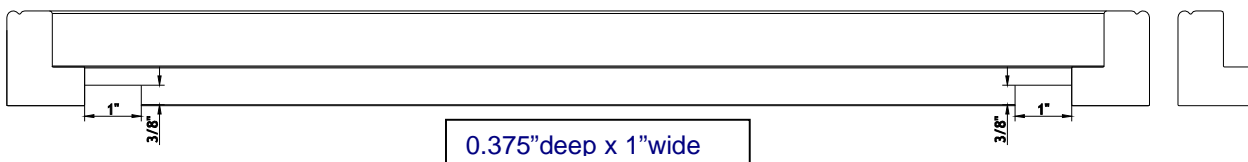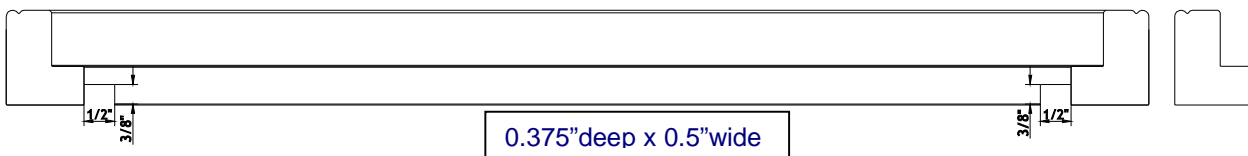
b. **S cutout**---**Sill cut out: 0.375"deep x 1.25"wide. The cutout is always on bottom of bottom frame.**
Available frame type:
1) All L-frames except for L frame with 1/4" Light block
2) All Z Frame and its standard sill plates.

*Some surcharges apply

3/8"

1 1/4"
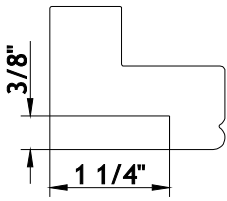
c. **L cutout**---Lock cutout. L cutout will be on the left or right frame or T Posts.
There will be one or two cutouts on the T-posts or frames depending on the height of the window;
1) For window around 42-48" height, 1 cutout is available;
2) For window around 60" or above, 2 cutouts are available.

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

 Available frame type and T Post:
1) All types of L/Deco/Z frames except Tilt Out Z;
2) All standard sill plates for Deco/Z Frame;
3) All T Posts except for T Post with 3/8" wide light block.
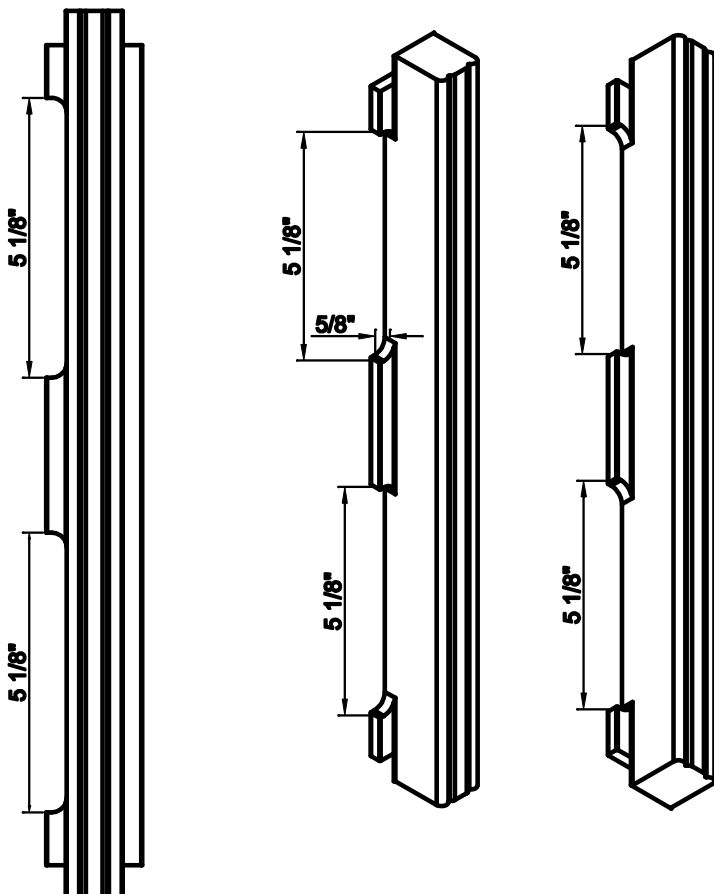
d. **C cutout**---Crank cut outs (C1 cutout, C2 cutout, C3 cutout): Always on bottom of bottom frame.

 Available frame type for C1&C2:

*Some surcharges apply

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

Available frame type for C3:
1) All types Z-frames except Tilt Out Z
2) All standard sill plates for Z Frame
3) All type of L Frame except for all Vintage L Frames with different height or Beaded L Frame with 1/4" light block.
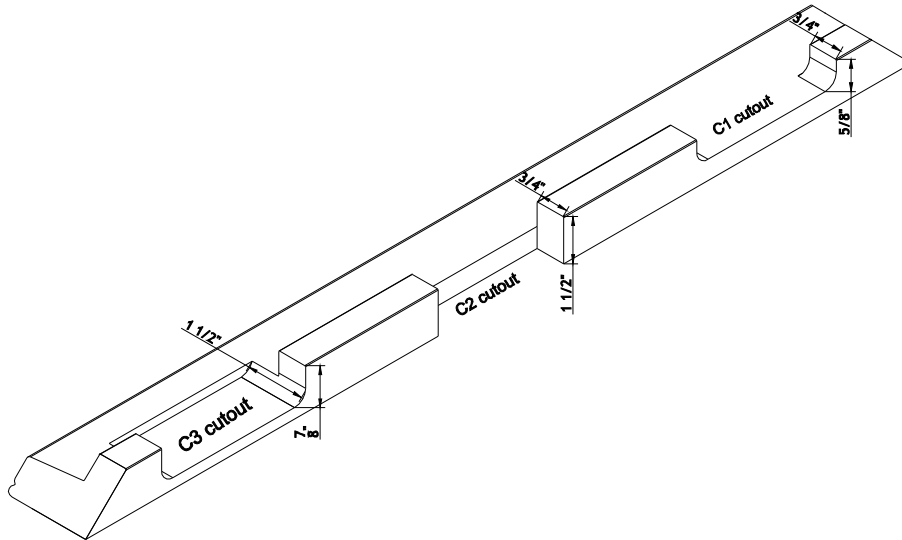
For C1 & C2 cutout, the cutout depth of light block is 1/4" for L Frame with 1/4" Light block.

Crank cutout—C1 cutout

Crank cutout—C2 cutout

Crank cutout—C3 cutout

1st cutout - Measure from the left side to beginning of cutout and next measurement to end of cut-out, and cut 5/8" deep.

2nd cutout - Measure from the left side to beginning of cutout and next measurement to end of cutout, and cut light block off all the way through

3rd cutout - Measure from the left side to beginning of cutout and next measurement to end of cutout, and cut 7/8" deep from top of light block and 1 1/2" in from back of frame

C Cutouts
Crank Cutouts

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

*Some surcharges apply

Back of Frame
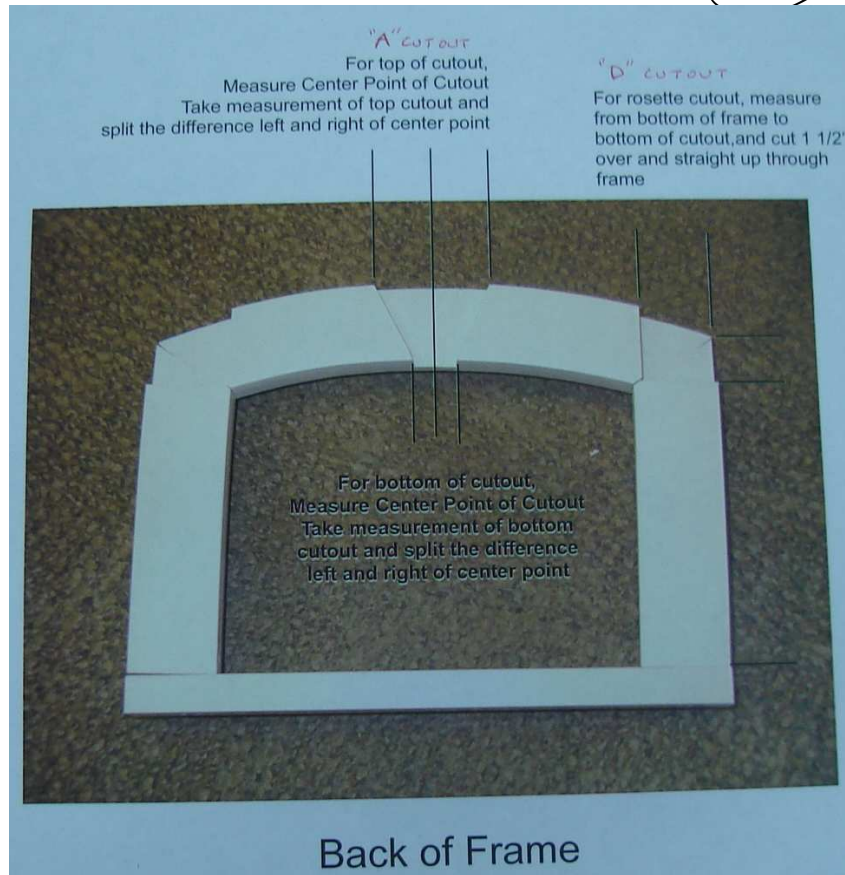
- **For cut out frames, if there is not enough room to install the round magnet catch, the L-shaped magnet catch will replace it.**

- **For cut out frame sizes, take following drawings as examples; please refer to the available limit size in detail:**

Notchout L frame
Type A

Notchout L frame
Type B

*Some surcharges apply

Remaining thickness of the light block part
L >= 1/4"

cutout

Remaining thickness of the light block part
L >= 1/4"

cutout

1.08"

cutout

1.08"

cutout

cutout

cutout

cutout

cutout

cutout

*Some surcharges apply

L>=1/2" for Non-hinged side
L>=3/4" for hinged side

cutout

H

L>=1/2" for Non-hinged side
L>=3/4" for hinged side

cutout

L>=1/2" for Non-hinged side
L>=3/4" for hinged side

cutout
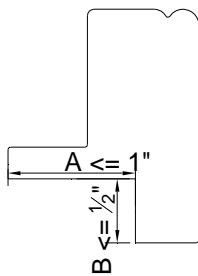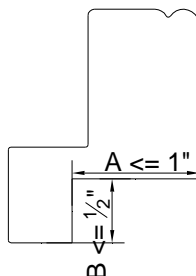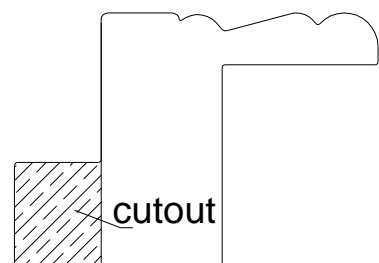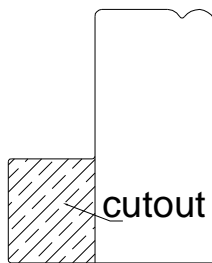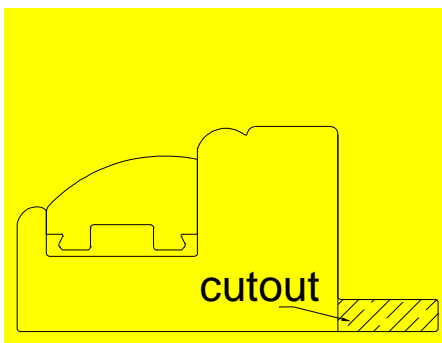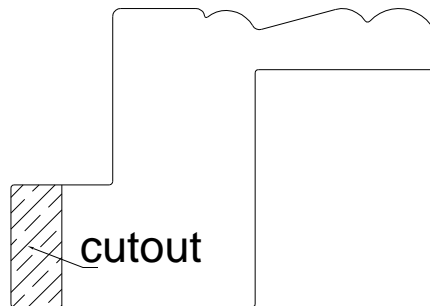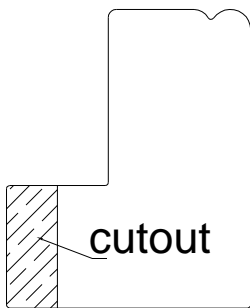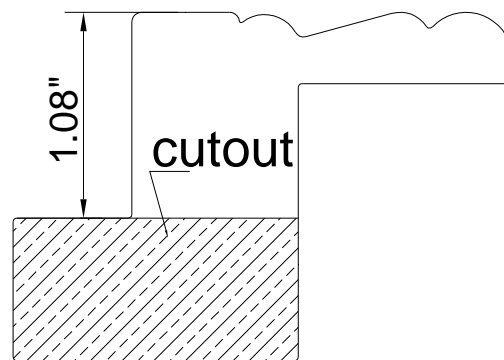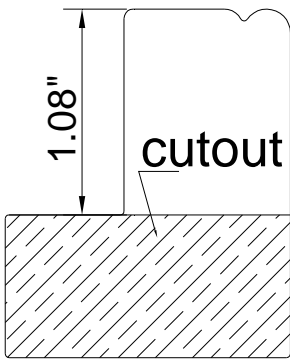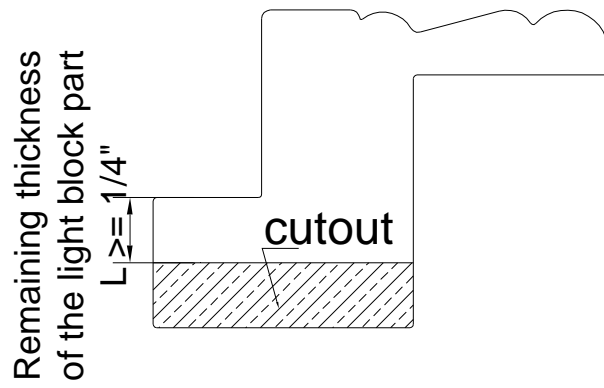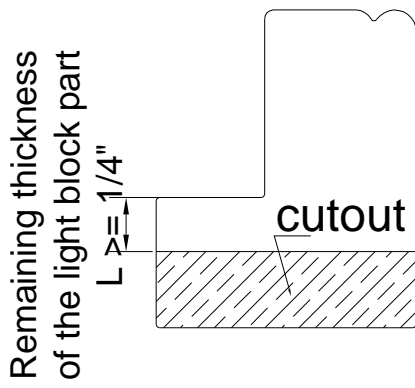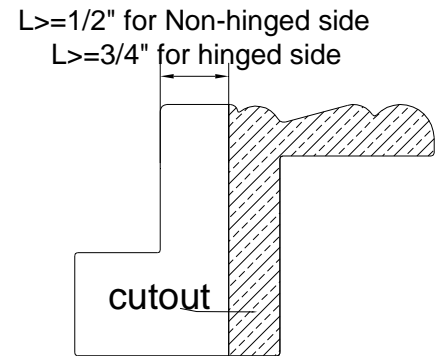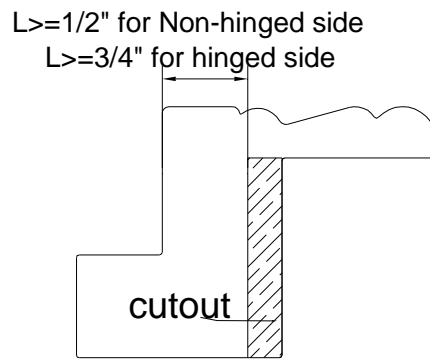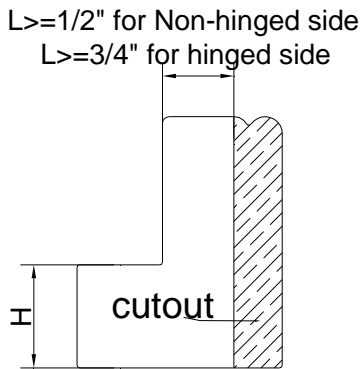
Note: It is not available for Vintage L frames with insert; It is available for Vintage L frames without insert; It can't be installed Invisible Hinges.

cutout
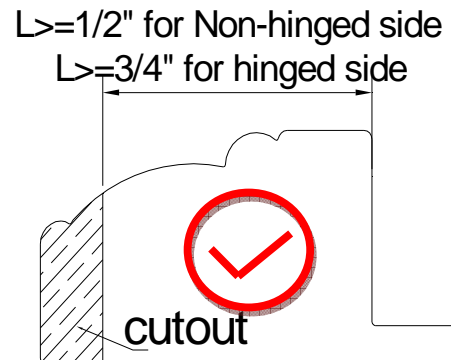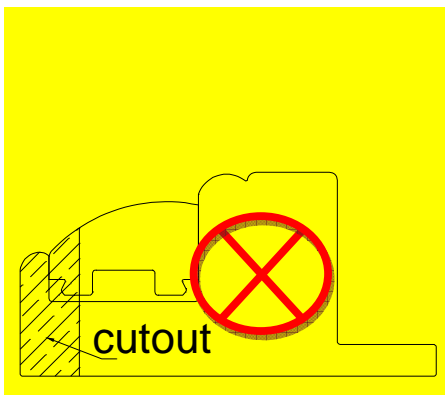
Note: It is not available for Deco frames with insert; It can't be installed Invisible Hinges.

L>=1/2" for Non-hinged side
L>=3/4" for hinged side

cutout

It is available for Deco frames without insert;

Raised Panel *

Stile   Double Raised   Stile

Stile   Double Raised   Stile
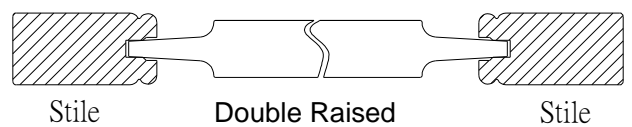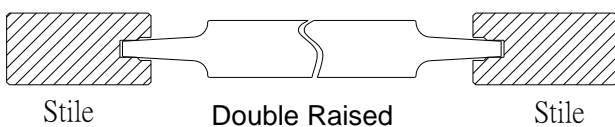
Available in
- Raised panel with louver combination.
  Raised panel only.

Raised Panel Location(s)   Note: the divider rail option must be selected in order entry.
    Top.
    Middle.
    Bottom.
    All

Specifications
    12" $\leq$ raised panel section height (including rail size) $\leq$ 48";
    For 1 5/8" Stile, the single panel width can't be less than 6 7/8";
    For 2" Stile, the single panel width can't be less than 7 5/8";
    For 2 1/4" Stile, the single panel width can't be less than 8 1/8";

*Some surcharges apply

Raised panel only (without louvers):
The maximum panel width will be 36" for single panel (such as L / R / LR / LTR etc.).
The maximum panel width will be same as the normal shutter spec for Bifold & Multiple fold panel configurations.

Raised panel with louver combination:
The maximum panel width will be 36" for single panel with 3.5" & 4.5" louvers;
The maximum panel width will be same as the normal shutter spec for single panel with other louver sizes except 3.5" & 4.5"louvers.
The maximum panel width will be same as the normal shutter spec for Bifold & Multiple fold panel configurations.

Rails

For a panel with raised panel section only, 3" is the standard size for top, bottom and divider rails.
The minimum size for top and bottom rails is 3".
If you are matching raised panels to standard shutter panels, the top rail of the standard shutter panel will match the top rail of the raised panel. Please specify clearly when placing order.
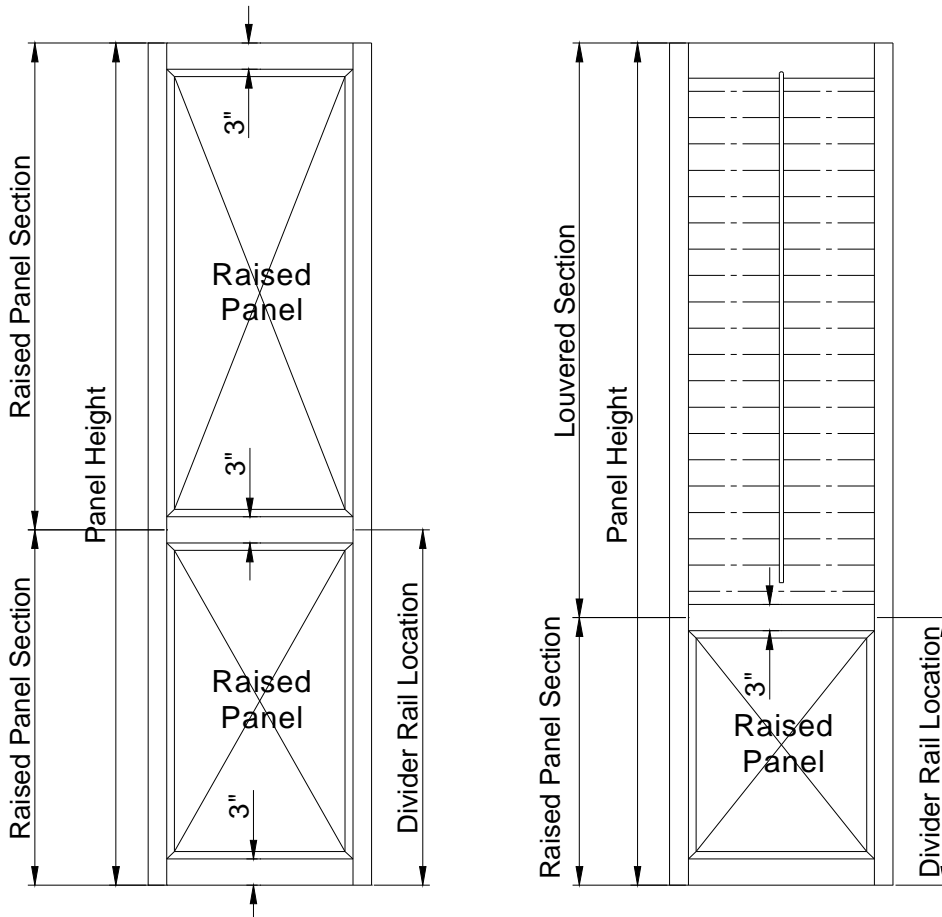
Hand-Carved Rail *

Available for top and/or bottom rails.
Please note that the proportion of the design is based on the height of the rail, not the width of the panel.

Vine

Wheat

Fleur de Lis

Rosette

Star

Fish

Swan

Liberty Arch *

The arch starts and ends 1" from the rail sides when panel width is more than 8";
While the arch starts and ends 1/2" from the rail sides when panel width is less than or equal to 8";
The arch height is half of the top rail size (rounded up to $\frac{1}{8}$" increment).
The shape of the Arch is based on 3 points taken from the rail.

1st point: 1" (or 1/2") from the left stile
2nd point: 1" (or 1/2") from the right stile
3rd point: Midpoint of the rail front
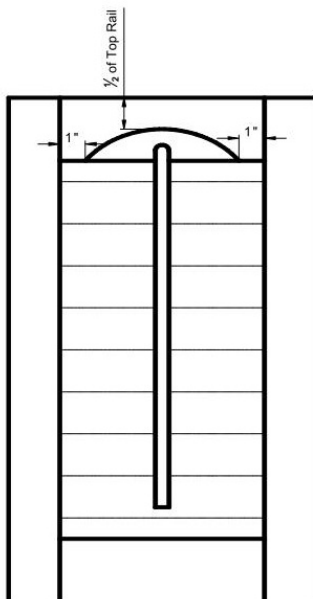
*Note: the only specialty shape that the Liberty Arch option can be used on is a French Door Cutout shutter.

*Some surcharges apply

Specialties

Specialty Shutters[*]

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

Regarding frame with an insert or solid frame issue:

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

■ All deco frames will be made as solid frames;

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

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

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

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

5). For Louver Arch with Eyebrow curve shape:

■ All deco frames excluding 2.5" Mission deco frame: all frames will be made as solid frames (not with an insert).

■ All Vintage L frames & Vintage hang strip & 2.5" Mission deco frame: the top frame (curve shape frame) will be made as a solid frame but the bottom & both sided frames (straight frames) will be made as regular frames with inserts;

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

■ All deco frames will be made as solid frames;

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

7). Tilt Out Z Frame is not available for "Frame Include In Rail" option.

8). Hang strip behind the panel is not available for Hexagon and octagon with horizontal louvers.

9). All sunburst hubs must be less than or equal to 12".

10). If a requested half round sunburst arch will result in louvers that are out of spec, a center stile may be added in order to produce the unit.

center stile

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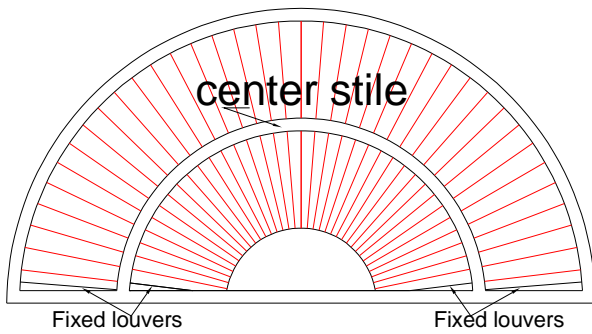
The louvers in the curved section can not be operated by the
Invisible Tilt system. They can be independently operated by
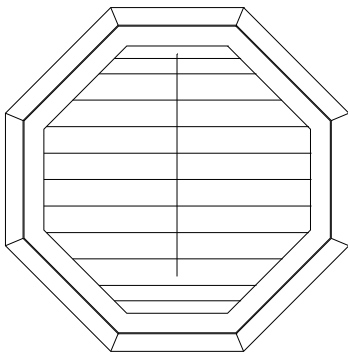a separate standard tilt rod installed on back of the panel.

Fixed louver   Fixed louver

Standard Tilt rod on   Standard Tilt rod on
back of panel   back of panel
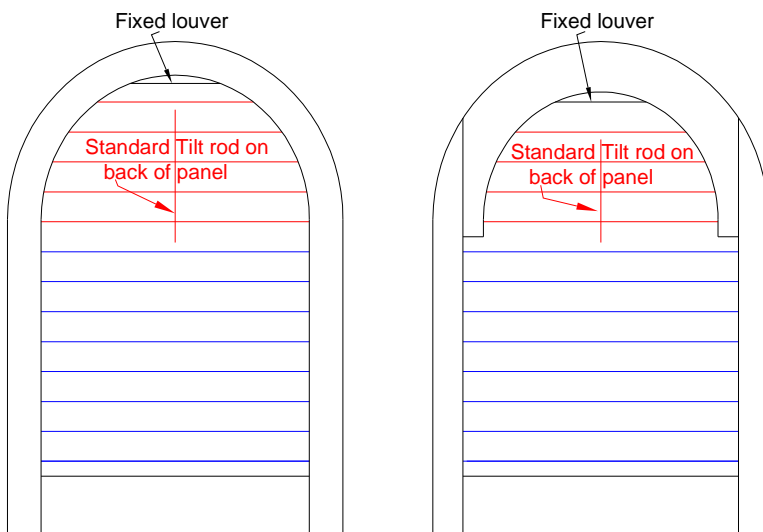
Frame include in Rail (Z Frame only, exclude Tilt Out Z Frame)
With the frame included in rail option, there is no rail or stile on the panel. Instead, the panel's louvers
are connected directly to the inside edge of the Z frame around the outer perimeter, so the Z frame
acts as the "rail & stile". For this reason, the panel will not have any magnets or hinges, since it is a
fixed panel.
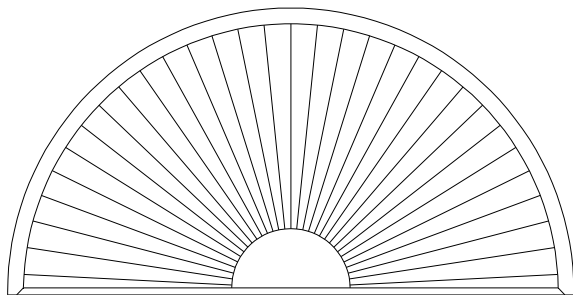
Available frame types: 3" Crown Z Frame, 2" Bel Air Z Frame, 2" Bullnose Z Frame, 1 1/4 Beaded Z
Frame, 1 1/2 Bullnose Z Frame.
Available specialty types: Half Round Sunburst, Eyebrow Sunburst, Elongated Eyebrow Sunburst,
Left Quarter Round Sunburst, Right Quarter Round Sunburst, Sunburst on Top with Divider Strip
(Frame Include in Rail Z Frame Only), Circle Sunburst, Hexagon Sunburst, Hexagon Sunburst with
Straight Sides, Octagon Sunburst, Peak Sunburst.

*Some surcharges apply

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

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

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

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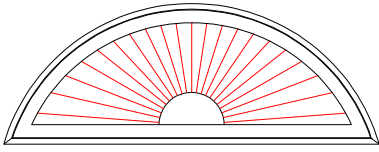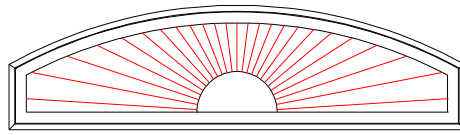
*Some surcharges apply

Eyebrow Sunburst

Elongated Eyebrow Sunburst

Half Round Sunburst
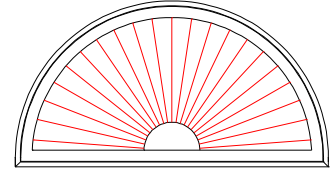
Half Round with Horizontal Louvers
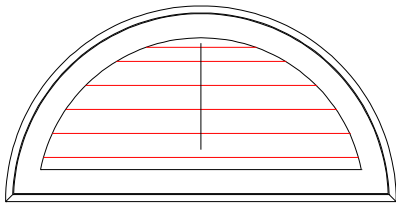
Left Quarter Round Sunburst
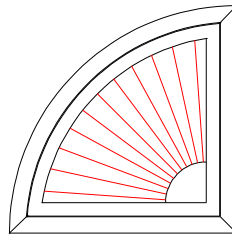
Right Quarter Round Sunburst
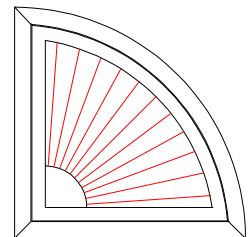
Circle Sunburst
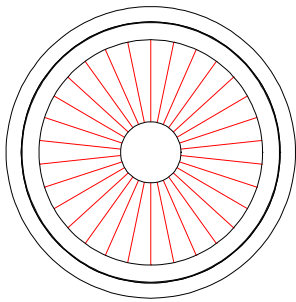
Circle with Horizontal Louvers
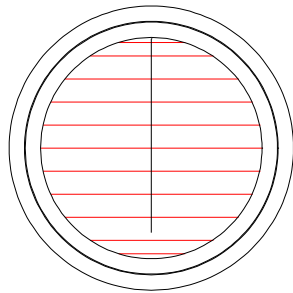
Oval with Horizontal Louvers
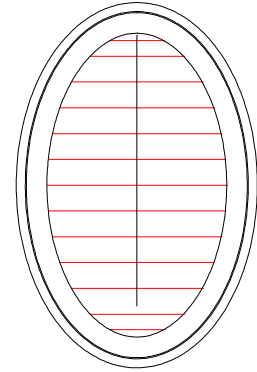
Oval Sunburst
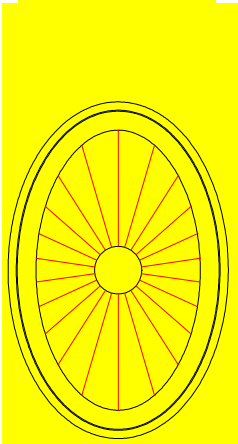
Sunburst on Top with T Post

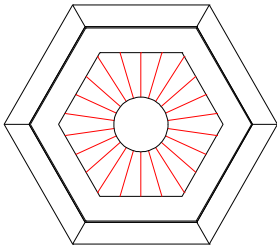Sunburst on Top with Divider Strip

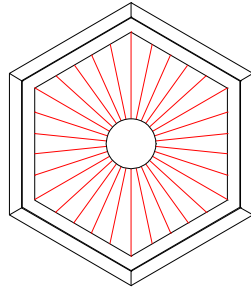*Some surcharges apply
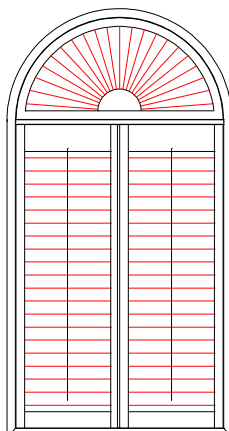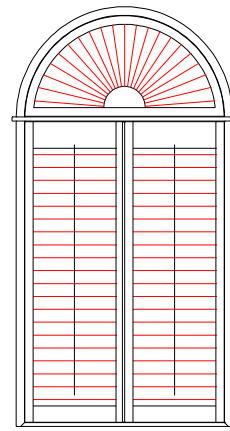
Sunburst on Top with Continuous Frame
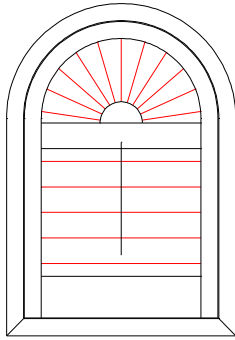
Quarter Sunburst Panelwith Continuous Frame
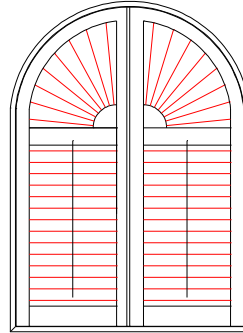
Hexagon Sunburst

Hexagon Sunburst with Straight Sides

Hexagon with Horizontal Louvers
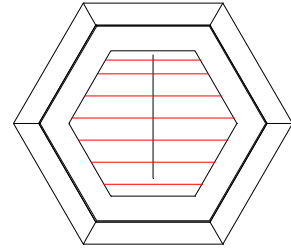
Hexagon Straight Sides with Horizontal Louvers
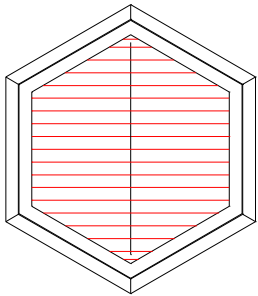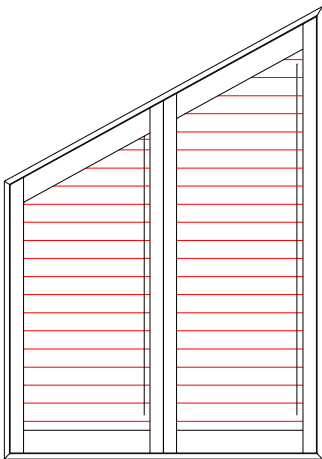
Octagon Sunburst
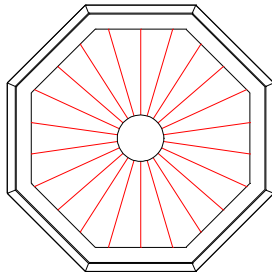
Octagon with Horizontal Louvers
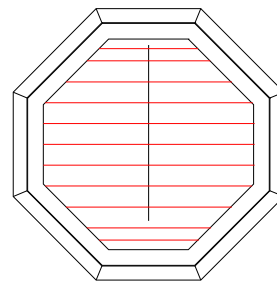
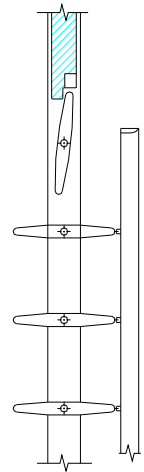Left Angle Top with Center Tilt Rod /
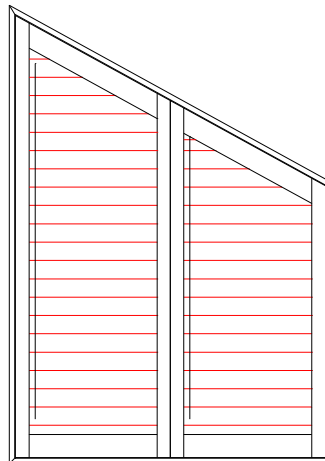Left Rake with Center Tilt Rod
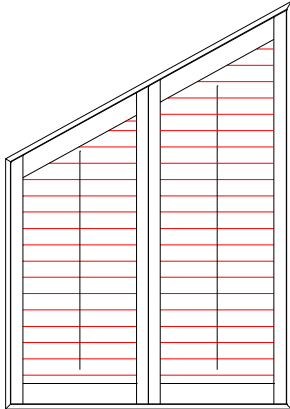
Right Angle Top with Center Tilt Rod /
Right Rake with Center Tilt Rod
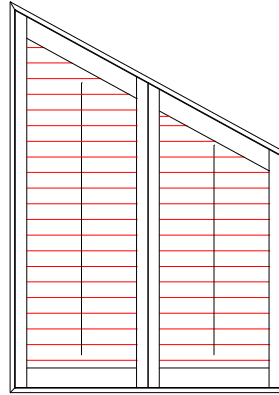
Left Angle Top with Offset Tilt Rod /
Left Rake with Offset Tilt Rod

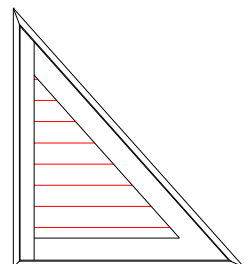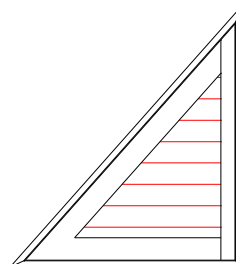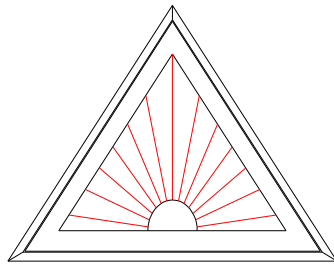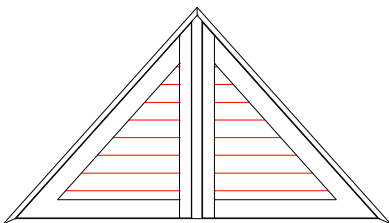Right Angle Top with Offset Tilt Rod /
Right Rake with Offset Tilt Rod

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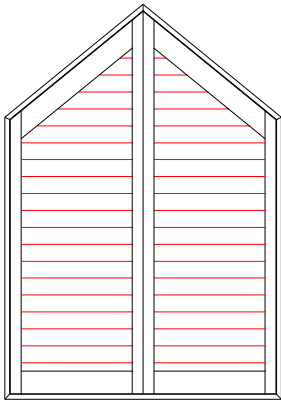be fixed as shown above

Triangle with Horizontal Louvers   Triangle Sunburst   Left Triangle   Right Triangle

*Some surcharges apply

Peak   Left Quarter Arch   Right Quarter Arch
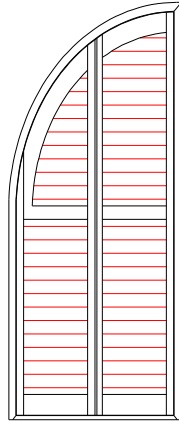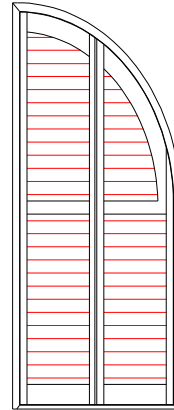
Louvered Arch Shutter with Center Tilt Rod
-Standard Louvered Arch
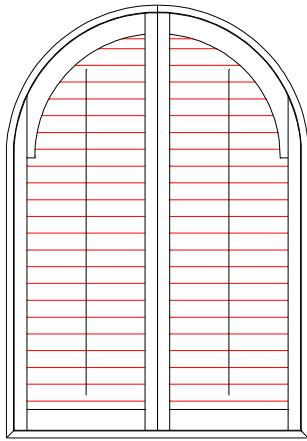
Louvered Arch Shutter with Offset Tilt Rod
-Standard Louvered Arch
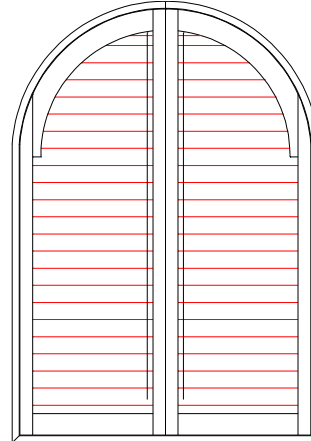
Louvered Arch Shutter with Center Tilt Rod
-Continuous Arch
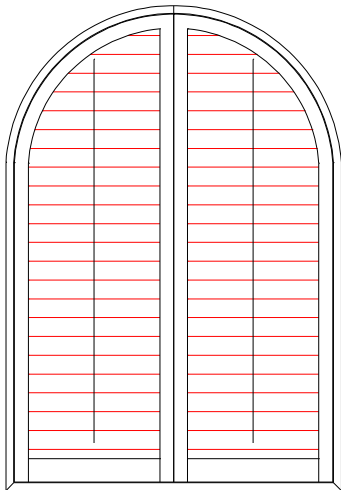
Louvered Arch Shutter with Offset Tilt Rod
-Continuous Arch
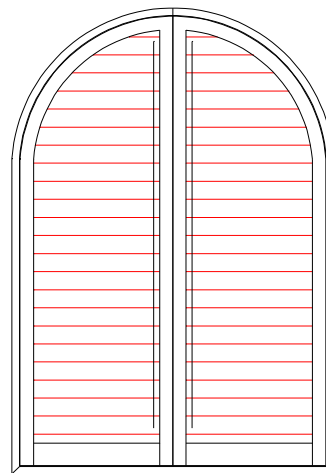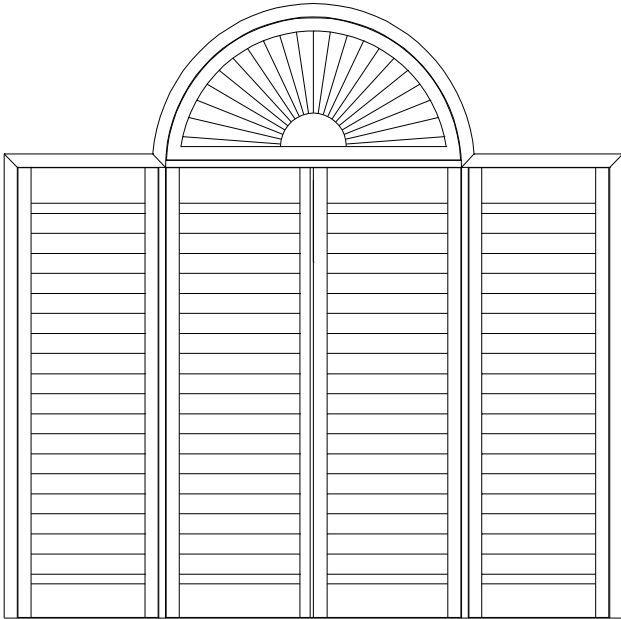
Arch Top Picture Window with Sunburst

Standard unit with horizontal arch center
fixed louver
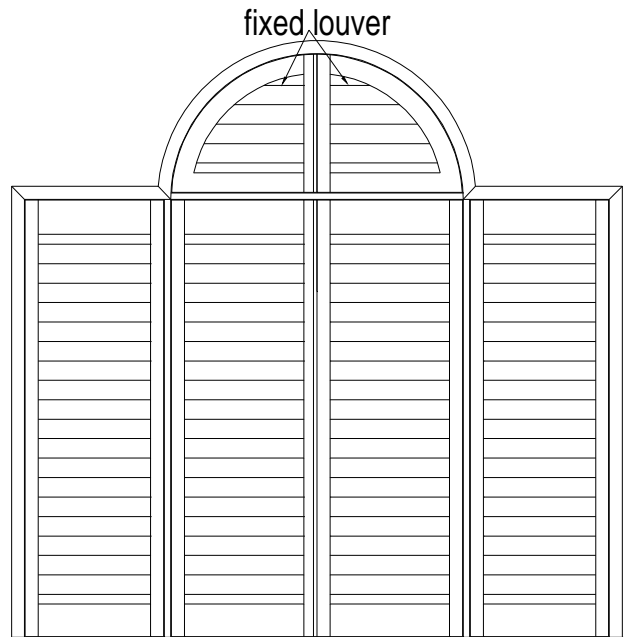
Arch Top Picture Window with horizontal louvers-Standard louvered arch
Fixed louver
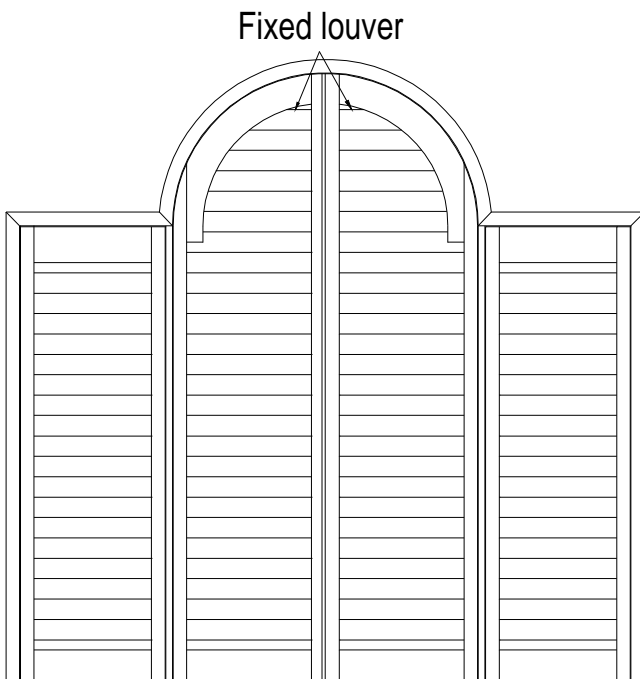
Arch Top Picture Window with horizontal louvers-Continuous arch
Fixed louver
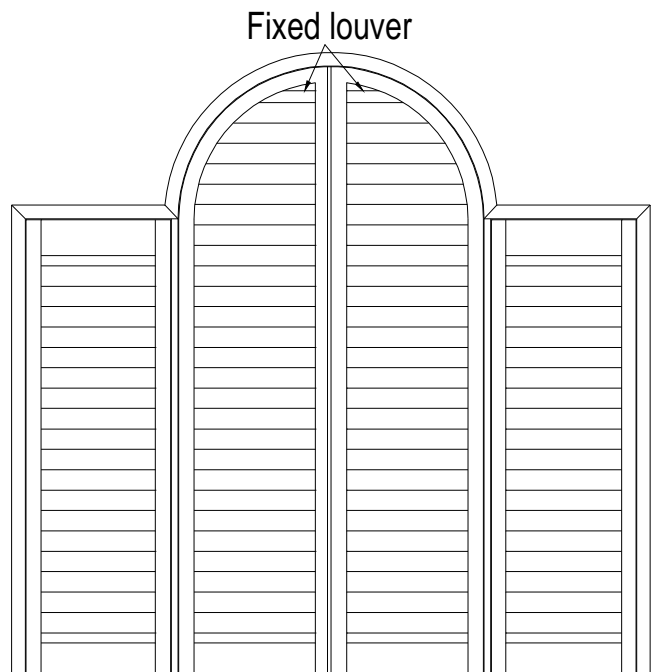
Horizontal louvers center arch with quarter round side panels -Standard louvered arch

fixed louver

fixed louver

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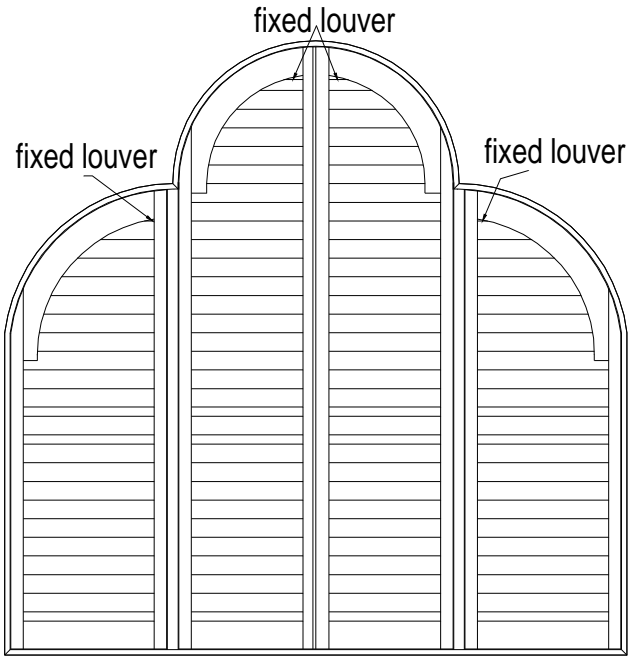
Horizontal louvers center arch with quarter round side panels -Continuous arch

fixed louver

fixed louver

fixed louver
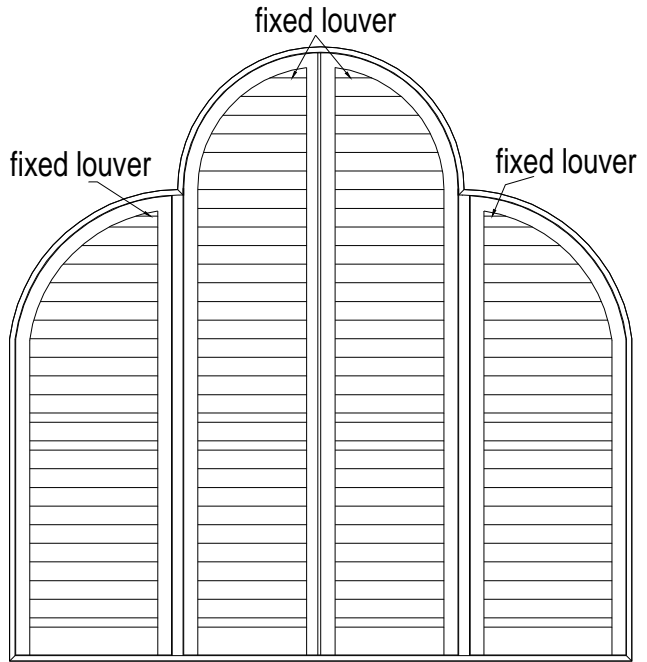
Sunburst louvers center arch with quarter round side panels
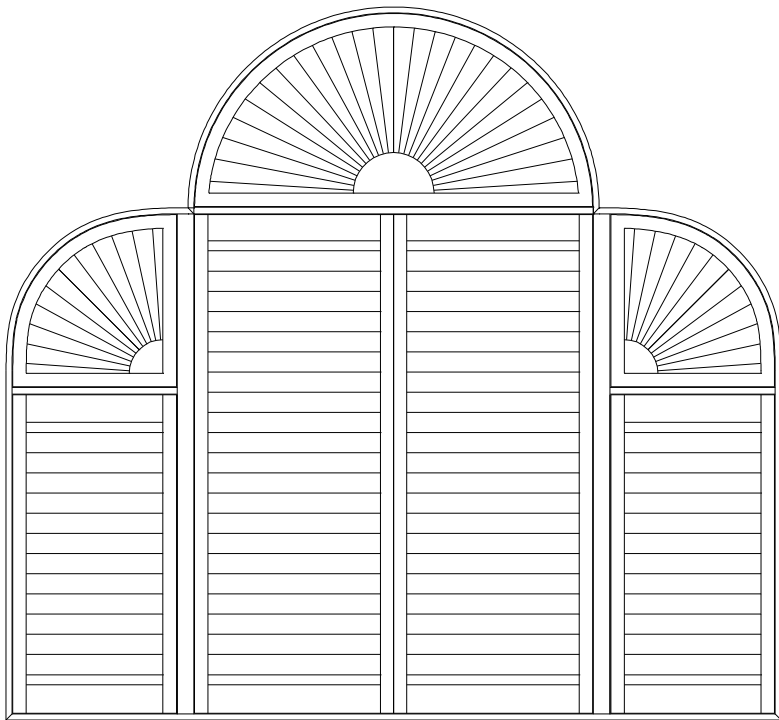
Solid Rail Arch
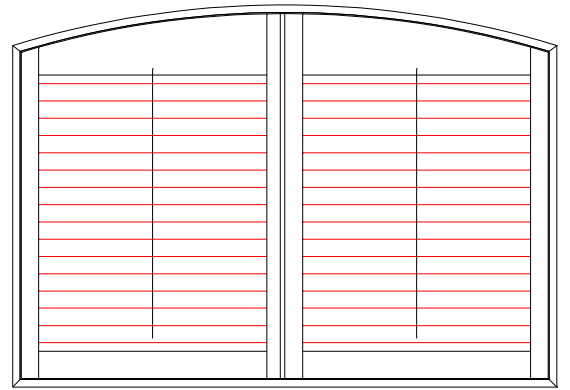
Solid Rail Arch
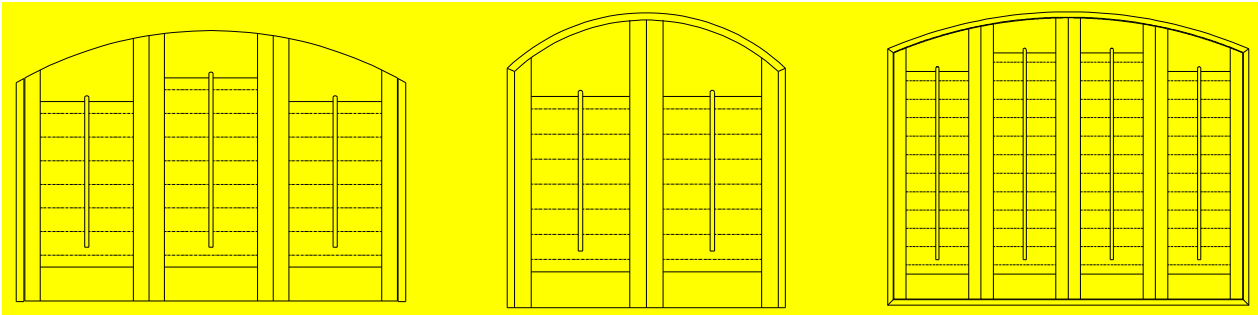
| 2-sided | 3-sided | 4-sided |

1) Solid Rail Arch is available in
- L frames
- Z frames
- Deco frames
- Hang strips

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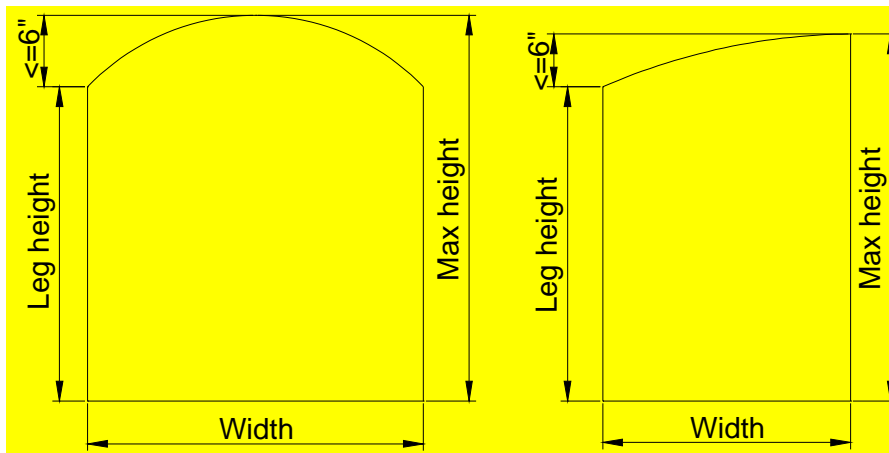
Template Requirement Guideline

You are required to submit a template if the specialty shutter is:
- An **inside mount.**
- An **imperfect arch**.
- Going to be mounted on **existing molding**.
- An **oval shape**.

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

*Some surcharges apply

Pricing

1) By Max Frame-to-Frame Measurement:							
Regular Shutter							
Inside and Outside Mount	Width	x	Height	/ 144	x	$/sq ft	
Track Shutter**							
Inside	Width	x	Height	/ 144	x	$/sq ft	
mi-Inside and Outside Mount	Width	x	(Height-1½")	/ 144	x	$/sq ft	
2) By Net Panel Measurement:	Width	x	Height	/ 144	x	$/sq ft	
3) By Window Size:							
2" Camber Deco Frame	4-sided	(Width+4")	x	(Height+4")	/ 144	x	$/sq ft
	3-sided with Sill Plate	(Width+4")	x	(Height+4")	/ 144	x	$/sq ft
	3-sided	(Width+4")	x	(Height+2")	/ 144	x	$/sq ft
	2 sided with Sill Plate	(Width+4")	x	(Height+2")	/ 144	x	$/sq ft
	2-sided	(Width+4")	x	(Height)	/ 144	x	$/sq ft
3" Ridge Deco Frame	4-sided	(Width+6")	x	(Height+6")	/ 144	x	$/sq ft
	3-sided with Sill Plate	(Width+6")	x	(Height+6")	/ 144	x	$/sq ft
	3-sided	(Width+6")	x	(Height+3")	/ 144	x	$/sq ft
	2-sided with Sill Plate	(Width+6")	x	(Height+3")	/ 144	x	$/sq ft
	2-sided	(Width+6")	x	(Height)	/ 144	x	$/sq ft
2.5" Mission deco frame	4-sided	(Width+5")	x	(Height+5")	/ 144	x	$/sq ft
	3-sided	(Width+5")	x	(Height+2.5")	/ 144	x	$/sq ft

	2-sided	(Width+5")	x	(Height)	/ 144	x	$/sq ft
3" Crown Z Frame	4-sided	(Width+4 ½	x	Height+4½")	/ 144	x	$/sq ft
	3-sided with Sill Plate	(Width+4 ½")	x	Height+4½")	/ 144	x	$/sq ft
	3-sided	(Width+4 ½)	x	Height+2¼")	/ 144	x	$/sq ft
	2-sided with Sill Plate	(Width+4 ½)	x	Height+2¼")	/ 144	x	$/sq ft
	2-sided	(Width+4 ½")	x	(Height)	/ 144	x	$/sq ft
2" Bel Air Z Frame 2" Bullnose Z Frame	4-sided	(Width+2 ½")	x	Height+2½")	/ 144	x	$/sq ft
	3-sided with Sill Plate	(Width+2 ½")	x	Height+2½")	/ 144	x	$/sq ft
	3-sided	(Width+2 ½")	x	Height+1¼")	/ 144	x	$/sq ft
	2-sided with Sill Plate	(Width+2 ½")	x	Height+1¼")	/ 144	x	$/sq ft
	2-sided	(Width+2 ½")	x	(Height)	/ 144	x	$/sq ft
1 ½ " Bullnose Z Frame	4-sided	(Width+2")	x	(Height+2")	/ 144	x	$/sq ft
	3-sided with Sill Plate	(Width+2")	x	(Height+2")	/ 144	x	$/sq ft
	3-sided	(Width+2")	x	(Height+1")	/ 144	x	$/sq ft
	2-sided with Sill Plate	(Width+2")	x	(Height+1")	/ 144	x	$/sq ft
	2-sided	(Width+2")	x	(Height)	/ 144	x	$/sq ft
Vintage Hang Strip	Inside	Width	x	Height	/ 144	x	$/sq ft
	Outside 4-sided	(Width+3")	x	(Height+3")	/ 144	x	$/sq ft
	Outside 3-sided	(Width+3")	x	(Height+1½")	/ 144	x	$/sq ft
	Outside 2-sided	(Width+3")	x	(Height)	/ 144	x	$/sq ft
Beaded	Outside 4-sided	(Width+3")	x	(Height+3")	/ 144	x	$/sq ft

L frame / Vintage L Frame	Outside 3-sided	(Width+3")	x	Height+1½"	/ 144	x	$/sq ft
	Outside 2-sided	(Width+3")	x	(Height)	/ 144	x	$/sq ft

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

1side frame price:

2" Camber Deco Frame	1-sided	(Width+2")	x	(Height)	/ 144	x	$/sq ft
2" Classic Deco Frame	1-sided	(Width)	x	(Height+2")	/ 144	x	$/sq ft
3" Ridge Deco Frame	1-sided	(Width+3")	x	(Height)	/ 144	x	$/sq ft
	1-sided	(Width)	x	(Height+3")	/ 144	x	$/sq ft
2 1/2" Mission deco frame	1-sided	(Width+2 ½")	x	(Height)	/ 144	x	$/sq ft
	1-sided	(Width)	x	(Height+2 ½")	/ 144	x	$/sq ft
3" Crown Z Frame	1-sided	(Width+2 ¼")	x	(Height)	/ 144	x	$/sq ft
	1-sided	(Width)	x	(Height+2 ¼")	/ 144	x	$/sq ft
2" Bel Air Z Frame	1-sided	(Width+1 ¼")	x	(Height)	/ 144	x	$/sq ft
2" Bullnose Z Frame	1-sided	(Width)	x	(Height+1 ¼")	/ 144	x	$/sq ft
1 ½" Bullnose Z Frame	1-sided	(Width+1")	x	(Height)	/ 144	x	$/sq ft
1 ¼ " Beaded Z Frame / Bullnose Tilt Out Z Frame	1-sided	(Width)	x	(Height+1")	/ 144	x	$/sq ft

Vintage Hang Strip	Outside 1-sided	(Width+1 ½")	x	(Height)	/ 144	x	$/sq ft
	Outside 1-sided	(Width)	x	(Height+1 ½")	/ 144	x	$/sq ft
Beaded L frame Vintage L Frame Beaded L with 1/4" Light Block Beaded L with 1/2" Buildout	Outside 1-sided	(Width+1 ½")	x	(Height)	/ 144	x	$/sq ft
Beaded L with 1" Buildout Vintage L with 1/4" Light Block Vintage L with 1/2" Buildout Vintage L with 1" Buildout	Outside 1-sided	(Width)	x	(Height+1 ½")	/ 144	x	$/sq ft