# **COMPOSITE SHUTTERS**

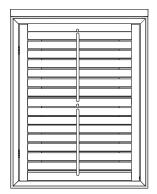
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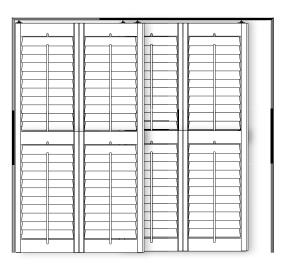


## **Features**

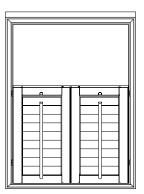
## **Shutter Styles**



**Standard Panel:** A rectangular-shaped panel that can be installed using any frame style. Panel covers the entire window opening.



Bypass Track System: Shutter panels slide on a top track to open and close. The track system can be attached to a frame or mounted directly to a window casing or the ceiling. Ideal for patios or closet doors. Louvers must be closed to pass.

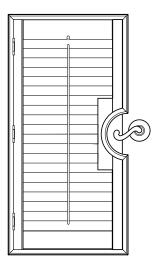


Café: Classic style covers the bottom part of the window, allowing light to enter while protecting your privacy. Not recommended in composite; tops are not finished.

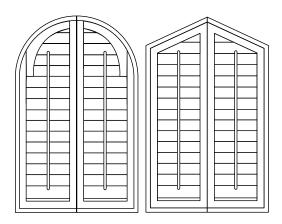
**NOTE:** Shutters do not block all light from entering the room. All shutters have moving parts. These parts have tolerance gaps that will allow some light to filter through the shutter.

# **Features**

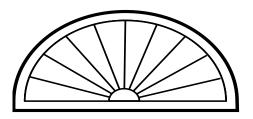
## **Shutter Styles**



**French Doors:** Add the beauty of shutters to French Doors. Curved or rectangular cutout options complement contemporary door handles or traditional door knobs.



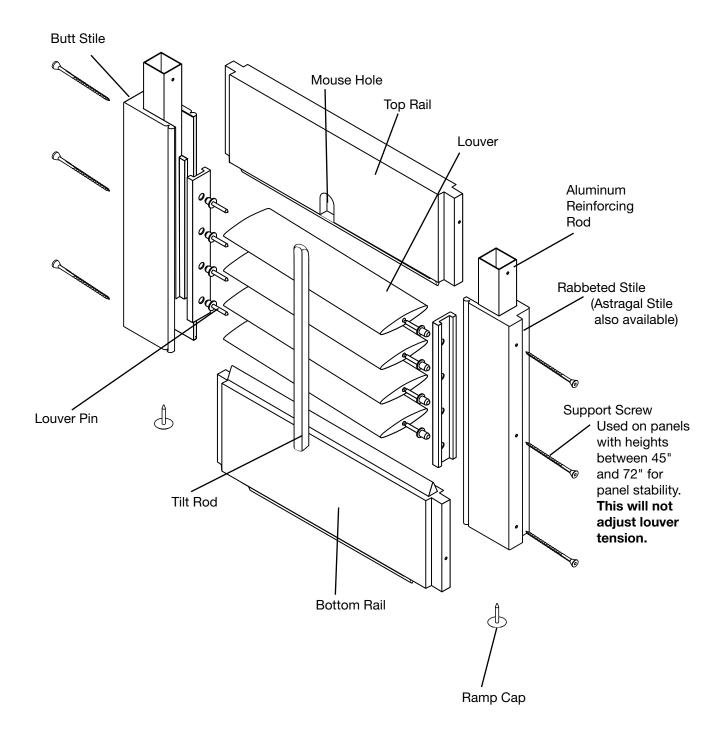
**Arch or Angle Top Panels:** Provide whole window solutions that fit the rounded shape of full arch windows perfectly. Angled panels accommodate slanted windows. Available in full arch or angle, ¼ arch, or ½ angle.



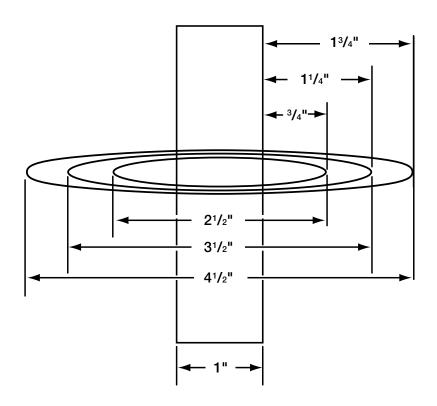
**Sunburst Arches:** Sunburst patterned louvers cover unique window silhouettes such as eyebrow, palladian, elongated, and elliptical arches. Also available as ¼ arches.

# **Features**

## **Product Illustration**



## **Louver Options**



Minimum Clearance Needed From Back Panel Surface					
Louver Size Standard Tilt Hide-a-Tilt™					
21/2"	3/4"	11//8"			
31/2"	11/4"	<b>1</b> %"			
4½"	<b>1</b> ¾"	21/8"			

NOTE: Hide-a-Tilt requires an additional 3/8" window clearance

## 21/2" Louver

- Traditional in style
- Minimal window depth needed
- Shutters are focal point of the room

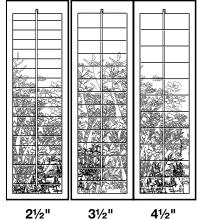
## 31/2" Louver

- Most popular louver size
- Offers more visibility and light control

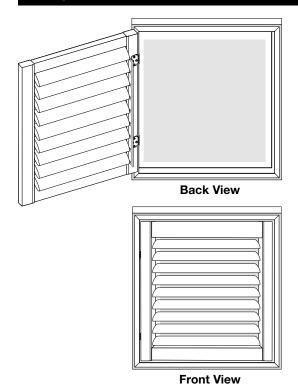
## 41/2" Louver

- Provides the greatest visibility through the open louvers
- Looks most proportionate in a larger window, view beyond the window becomes more important
- Louvers almost disappear when open

## **Composite Louver Sizes**



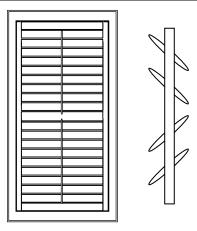
## Tilt Options: Hide-a-Tilt™



**Hide-a-Tilt Option** offers the tilt mechanism in the back of the shutter panel, eliminating the traditional tilt bar and creating an unobstructed view, as well as a clean linear appearance. A thin stainless steel tilt bar is attached to the louvers in the rear of the panel. Operation of the shutter is as simple as moving one louver into position; all of the other louvers will follow.

- Hide-a-Tilt bar will always be stainless steel color
- Hide-a-Tilt is mounted on hinge side for standard shutters
- No mouse hole in the panel
- Hide-a-Tilt allows the shutter to be closed in the upward or downward position

## **Tilt Options: Split Tilt**



## Split Tilt

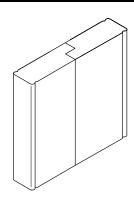
No divider rail. Splits one large louver set into two individually operated louver sets by cutting the tilt bar.

- Standard tilt or Hide-a-Tilt
- Can be ordered at desired location
- 3½" and 4½" Louver sizes only (not available with 2½" louvers):
  - 31/2" louvers split will be specified as exact
  - 41/2" louvers split may shift up or down +/- 2"

Consideration: Upper and lower louvers cannot be positioned at opposing angles because the edges of the louvers will touch.

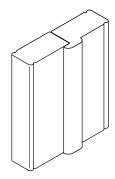
**NOTE:** Top and bottom rails may vary or be unequal due to requested locations and louver spacing. Rail sizes vary from 3" - 6"

## **Panel Overlap Styles**



## Rabbet Style Panel Overlap

- · Factory standard
- Right over left overlap only
- Left over right overlap not available

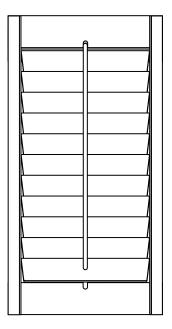


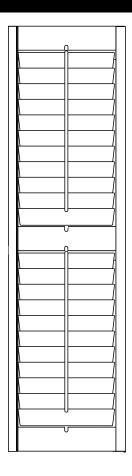
## **Astragal Style Panel Overlap**

- No charge option
- · Right over left overlap standard
- · Left over right overlap optional
- Astragal will automatically be used between bi-fold panels

## **Double Mouse Hole**

- Has mouse hole on the rail above and below each louver section which allows the louvers to be closed in the upward or downward position
- Double mouse hole shutters will have tighter closure in the up position





## **Color Options**

Base White	2051
Creamy White	2729
Silk White	2922

## **Hardware Options**

## **Hinge Colors**

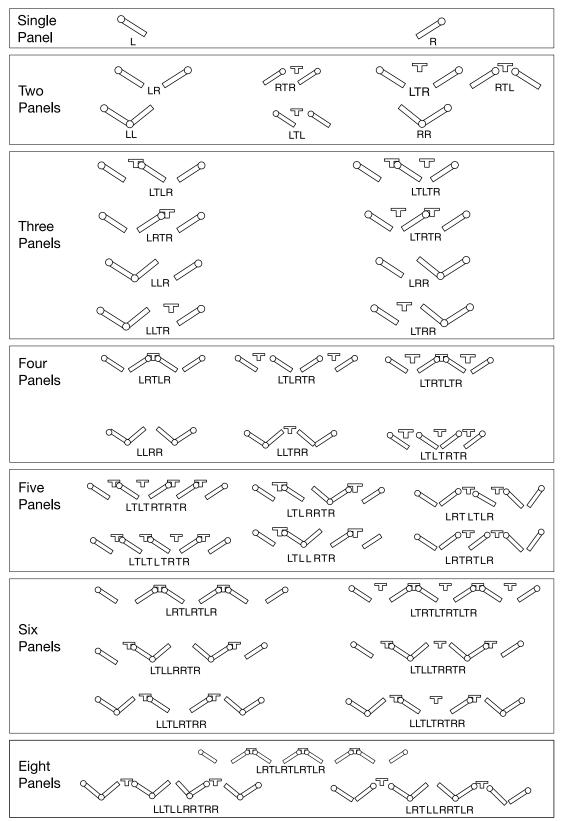
Select the hardware color that best fits your decor:

- Antique Brass
- Off White
- Oil Rubbed Bronze
- Satin Nickel
- Stainless Steel\*
- White

\*5% surcharge

## Composite: Panel Configurations: Standard, Arch, And Angled Top Shutters

## Panel Configurations Must Be Selected From This Chart



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# **Size Considerations**

Composite: Mini		Direct Hang S Tilt	Mount, trip and Out ame	Stand Sign	dard & ature ames		rame		Frame
		W-O	Size	W-O	Size	F-F	Size	F-F	Size
Number Of Panels	Panel Configurations	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
1 Panel	L, R	93/16"	30¾16"	11"	31%"	113/16"	321/4"	147/8"	347/8"
	LR	181/16"	60"	19%"	<b>61</b> <sup>1</sup> 1⁄16"	201/16"	621/16"	2411/16"	6411/16"
2 Panels	LTR, LTL, RTR, RTL	19%"	61%"	21¾6"	631/16"	21%"	637/16"	261/16"	651/16"
	LL, RR	181/16"	48"	19%"	4911/16"	201/16"	501/16"	2411/16"	5611/16"
	LLR, LRR	27¾16"	783/16"	291/16"	80"	291/4"	801/4"	2411/16"	8211/16"
	LLTR, LTRR	281/4"	79¾6"	301/16"	80%"	301/4"	811/4"	35%"	83%"
3 Panels	LTLR, LRTR	281/4"	<b>91</b> ¾16"	301/16"	927/8"	301/4"	931/4"	35%"	957/8"
	LTLTR, LTRTR	29%16"	92%16"	31%"	941/4"	31%16"	945/8"	371/4"	971/4"
	LLRR	365/16"	95%"	381/8"	975/16"	385/16"	9711/16"	445/16"	100 <sup>5</sup> ⁄16"
	LLTRR	371/8"	97"	38¹5⁄₁6"	9811/16"	391/8"	991/16"	4511/16"	10111/16"
4 Panels	LRTLR	371/8"	121"	38¹⁵⁄₁ <sub>6</sub> "	12211/16"	391/4"	1231/16"	4511/16"	12511/16"
	LTLRTR	387/16"	122%"	401/4"	1241/16"	407/16"	1247/16"	471/16"	1261/16"
	LTRTLTR, LTLTRTR	39¾"	123¾"	<b>41</b> %16"	1257/16"	41¾"	12513/16"	487/16"	1287/16"
	LTLRRTR, LTLLRTR	47%"	140%6"	511/4"	14315/16"	51%"	14411/16"	615/16"	1495/16"
5 Panels	LRTLTLR, LRTRTLR	475/16"	152 <sup>5</sup> /16"	5015/16"	15515/16"	51¾ <sub>16</sub> "	159¾6"	55 <sup>7</sup> /16"	1657/16"
	LTLTRTRTR, LTLTLTRTR	501/16"	154¹5⁄₁6"	51%"	156%"	521/16"	157"	60%"	1595%"
	LTLLRRTR	56¹¹⁄₁6"	158%16"	58½"	160%"	5811/16"	160%16"	67¾16"	163¾16"
	LLTLRTRR	56¾16"	158%"	58"	1601/16"	58¾16"	1607/16"	67½16"	1631/16"
6 Panels	LRTLRTLR	56¾6"	182"	58"	18311/16"	58¾16"	1841/16"	67½16"	187½e"
	LTLLTRRTR, LLTLTRTRR	57½"	159%"	59 <sup>5</sup> ⁄16"	1611/16"	59½"	1617/16"	681/16"	1641/16"
	LTRTLTRTLTR	601/4"	1861/%"	621/16"	187¹¾₁6"	621/4"	188¾6"	70¹³⁄₁6"	190¹³⁄₁6"
	LRTLRTLRTLR	75¾"	243¾"	777/16"	245%16"	77¾"	247"	80½"	250½"
8 Panels	LRTLLRRTLR	7315/16"	21715/16"	75¾"	219¾"	75¹⁵⁄₁6"	21915/16"	79¾6"	223¾16"
	LLTLLRRTRR	73¹⁵⁄₁6"	193¹⁵⁄₁6"	75¾"	195¾"	75¹⁵⁄₁6"	195¹⁵⁄₁6"	79³⁄₁6"	198¾6"

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# **Size Considerations**

		Direct Mount, Hang Strip and Tilt-Out Z-Frame		Sign	dard & ature ames	L-Fr	ame	Deco	Frame
		W-O	Size	W-O	Size	F-F	Size	F-F	Size
Number Of Panels	Panel Configurations	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
1 Panel	L, R	9¾6"	26¾16"	11"	27%"	113/16"	281/4"	147/8"	30%"
	LR	181/16"	52"	197⁄8"	5311/16"	201/16"	541/16"	2411/16"	5611/16"
2 Panels	LTR, LTL, RTR, RTL	19%"	53%"	21¾6"	5511/16"	21%"	557/16"	261/16"	581/16"
	LL, RR	181/16"	48"	197⁄8"	4911/16"	201/16"	501/16"	2411/16"	5211/16"
	LLR, LRR	27¾6"	743/16"	291/16"	76"	291/4"	761/4"	2411/16"	7811/16"
3 Panels	LLTR, LTRR	281/4"	75¾16"	301/16"	76%"	301/4"	771/4"	35%"	79%"
3 Fallels	LTLR, LRTR	281/4"	79¾16"	301/16"	741/8"	301/4"	811/4"	35%"	837/8"
	LTLTR, LTRTR	29%16"	80%16"	31%"	821/4"	31%16"	82%"	371/4"	851/4"
	LLRR	365/16"	95%"	381/8"	975/16"	385/16"	9711/16"	445/16"	1005/16"
	LLTRR	371/8"	97"	38¹⁵⁄₁6"	9811/16"	391/8"	991/16"	4511/16"	10111/16"
4 Panels	LRTLR	371/8"	105"	38¹⁵⁄₁6"	10611/16"	391/8"	1071/16"	4511/16"	10911/16"
	LTLRTR	387⁄16"	106%"	401/4"	1081/16"	407/16"	1087/16"	471/16"	1111/16"
	LTRTLTR, LTLTRTR	39¾"	107¾"	<b>41</b> %16"	1097/16"	41¾"	10913/16"	487/16"	1127/16"
	LTLRRTR, LTLLRTR	475%"	128%6"	51¼"	13115/16"	51%"	14211/16"	615/16"	1475/16"
5 Panels	LRTLTLR, LRTRTLR	475/16"	1325/16"	50 <sup>15</sup> ⁄ <sub>16</sub> "	13515/16"	51¾16"	139¾16"	557/16"	1457/16"
	LTLTRTRTR, LTLTLTRTR	501/16"	14215/16"	511/8"	144%"	521/16"	145"	60%"	1475/8"
	LTLLRRTR	5611/16"	150%16"	58½"	152%"	5811/16"	152%16"	67¾6"	1553/16"
	LLTLRTRR	56¾16"	150%"	58"	1521/16"	58¾16"	1527/16"	671/16"	1551/16"
6 Panels	LRTLRTLR	56³⁄₁6"	158"	58"	15911/16"	583/16"	1601/16"	671/16"	1631/16"
	LTLLTRRTR, LLTLTRTRR	57½"	151%"	595/16"	1531/16"	59½"	1537/16"	681/16"	1561/16"
	LTRTLTRTLTR	601/4"	1621/%"	621/16"	16313/16"	621/4"	164¾6"	70¹³⁄₁₅"	166 <sup>13</sup> / <sub>16</sub> "
	LRTLRTLRTLR	75¾"	211¾"	777/16"	213%16"	77¾"	215"	80½"	217¾"
8 Panels	LRTLLRRTLR	73¹⁵⁄₁6"	20115/16"	75¾"	203¾"	75¹⁵⁄₁6"	20315/16"	79¾6"	207¾6"
	LLTLLRRTRR	73¹⁵⁄₁6"	19315/16"	75¾"	195¾"	75¹⁵⁄₁6"	19515/16"	79¾6"	1983/16"

GRABER 10

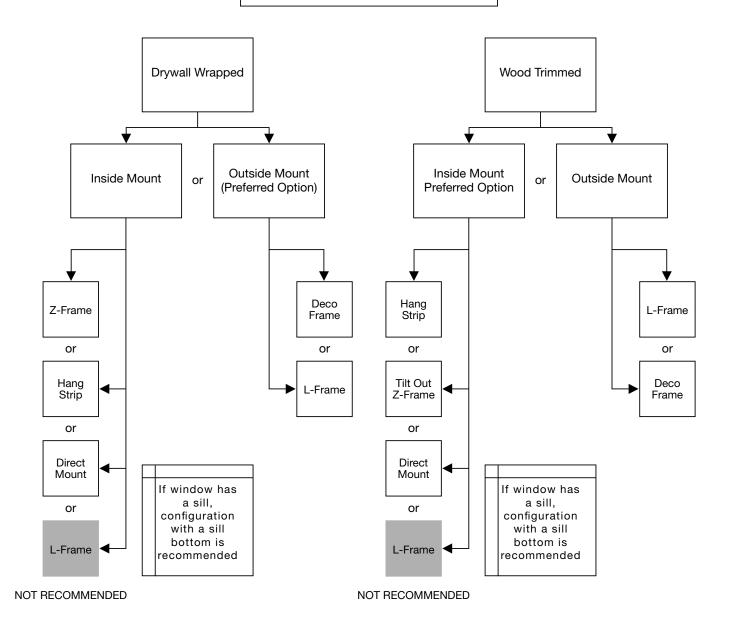
# **Size Considerations**

Frame Configuration	Frame Type	Min.	Max.
2 sided	Hang strip/direct mount	151/4"	961/4"
2 sided	Z-Frames	151⁄4"	961/4"
3 sided & 3 sided invert	Z-Frames	161/16"	971/16"
3 sided sill top or bottom	Z-Frames	167⁄16"	977/16"
4 sided with sill top or bottom	Z-Frames	16½"	97½"
4 sided with sill top & bottom	Z-Frames	16"	97"
4 sided	Z-Frames	<b>16</b> <sup>15</sup> ⁄ <sub>16</sub> "	9715/16"
2 sided	Tilt-Out Z-Frame	151/4"	961/4"
3 side and 3 side invert	Tilt-Out Z-Frame	151⁄4 "	961/4"
3 side sill top or bottom	Tilt-Out Z-Frame	15%"	96%"
4 sided with sill top or bottom	Tilt-Out Z-Frame	15¾"	96¾"
4 sided with sill top and bottom	Tilt-Out Z-Frame	16"	97"
4 side	Tilt-Out Z-Frame	151⁄4"	961/4"
2 sided	L-Frame	151/4"	961/4"
3 sided & 3 sided invert	L-Frame	<b>16</b> 5⁄16"	971/4"
3 sided sill top or bottom	L-Frame	16 <sup>11</sup> / <sub>16</sub> "	97%"
4 sided with sill top or bottom	L-Frame	16%"	97%"
4 sided with sill top & bottom	L-Frame	16"	97"
4 sided	L-Frame	175/16"	981/4"
2 sided	Deco Frame	151/4"	961/4"
3 sided & 3 sided invert	Deco Frame	17%6"	981/16"
3 sided sill top or bottom	Deco Frame	15%"	96%"
4 sided with sill top or bottom	Deco Frame	<b>17</b> <sup>15</sup> ⁄ <sub>16</sub> "	9815/16"
4 sided with sill top & bottom	Deco Frame	16"	97"
4 sided	Deco Frame	197/8"	100%"

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## **Frame Type Decision Tree**

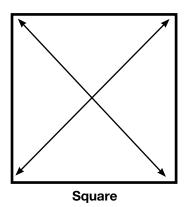
Review window and the area around the window. Choose from the options below.

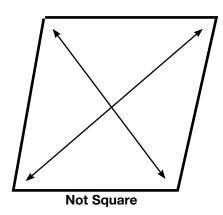


## **Measuring For Standard Shutters**

## Confirm that the window is square.

Measure the diagonals. If the difference between the two measurements is greater than  $\frac{1}{4}$ ", an outside mount shutter is required.

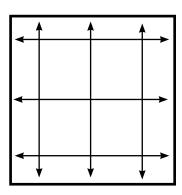




## **Window Opening Measurement**

## Inside Mount with Hang Strips, Direct Mount, Z-Frame, Tilt-Out Z-Frame

Measure the width at three points and the height at three points.
 Use the smallest width and height measurements.

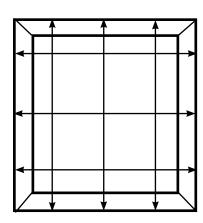


**NOTE:** Factory makes no allowances/deductions for Tilt-Out Z-Frame.

#### **Frame-to-Frame Measurement**

## Required for L-Frame and Deco Frame

- Place a sample of the L-Frame or Deco frame on the window frame or wall to determine frame-to-frame placement.
- Measure frame-to-frame width at three points and frame-to-frame height at three points. Use the largest width and height measurements.



NOTE: At least 15/8" flat surface is needed on each side of the window for an L-Frame.

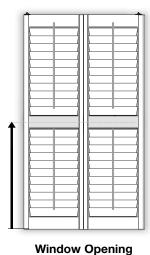
**Helpful Hint:** If shutters are in the same room and/or side by side, shutters must be ordered at the same height to ensure rail height, divider rail location, louver count and hinge quantity will match.

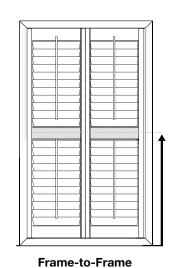
## **Measuring Divider Rail Location**

Always start from the bottom point of measure to center of the desired divider rail location.

To measure frame-to-frame, measure from the bottom of the shutter frame up to the center of the desired rail location.

To measure window opening, measure from the sill or bottom of the window opening to the center of the desired rail location.



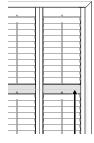


NOTE: Top and bottom rails may be unequal due to requested location and louver spacing. Rail sizes vary from 3"-6".

## **Divider Rail Requirements**

- 1. Divider rails are required over 72" height for added strength.
- 2. Divider rail can be requested (when not required) for design purposes.
- 3. A 3" divider rail is used with all louver sizes.
- 4. Divider rails for 2½" and 3½" louvers will be as specified (exact) on order.
- 5. Factory may shift rail up or down, (+/- 2") to achieve uniform louver spacing in 41/2" louvers only.
- 6. Minimum louver set is 2 louvers in each section.

**HELPFUL HINT:** If shutters are in the same room and/or side by side, shutters must be ordered at the same height to ensure divider rail location will match.



NOTE: Top and bottom rail sizes may vary and/or be unequal due to requested location and louver spacing. Rail sizes vary from 3"-6".

## **Measuring T-Post Locations**

Always start from the left point of measure type to the center of the desired T-Post location.

To measure frame-to-frame, measure from the left of the shutter frame to the center of the desired T-Post location.

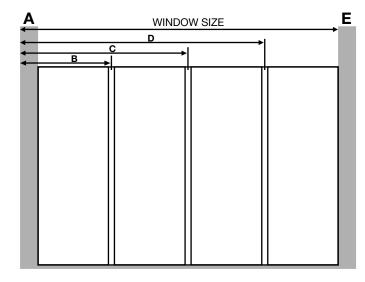
To measure the window opening, measure from the left inside of the window opening to the center of the desired T-Post location.

If there is more than one T-Post, measure from the left of measure type to the center of first T-Post location, then measure from the left of measure type over to the center of the second T-Post location etc.

EXAMPLE: A-B, A-C, A-D

Always measure from the same point the frame was measured.

**EXAMPLE:** If measuring for L-Frame, frame-to-frame measure type, A is the outside edge of the L-Frame.



## **Proper Application Of The Tilt-Out Z-Frame**

#### **Tilt-Out Z-Frame (Inside Mount)**

Designed to be used with certain styles of window trim. Panel and frame are pre-hinged. Frame is not pre-drilled. Shipment includes self-tapping 'trim-head' screws.

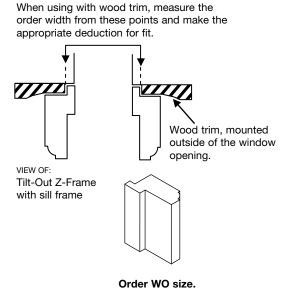
Tilt-Out Z-Frame must be ordered as "Window Opening" (WO) size. NO factory deduction is made with this frame.

Factory Deductions: Width: 0"

Height: 0"

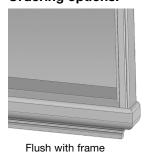
NOTE: Installer MUST make own deductions for proper fit. If diagonal measurements exceed 1/8" out of square, use other outside mount frame style.

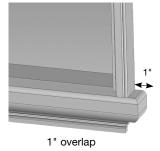


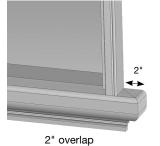


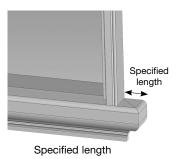
## **Sill Cap Application**

#### **Ordering options:**









3 available frame configuration options:

- 4 sided with sill cap bottom
- 3 sided invert with sill cap bottom
- 4 sided with sill frame top and sill cap bottom

Existing sill length on window will be required when ordering. This is to assure that sill cap option ordered will fit over the top of your existing window sill. A 1%" buildout will be provided to take up the gap between the existing sill and any inside mount frame. This buildout will be butted up to the back edge of the sill cap to extend the length.

\*No mounting hardware included. Adhesive should be used to attach sill cap to window sill. Made of wood material only.

NOTE: Not available on composite specialties.

## **Composite Frame Product Detail**

#### **Direct Mount**

- · Inside mount only
- · Window opening measure only
- · Panel is pre-hinged
- · Four light blocks included
- Factory automatically makes deductions: Width 1/4", Height 1/4"

#### **Hang Strip**

- Inside mount only
- Window opening measure
- Includes adjustable wrap-around hinge for easy installation
- · Panel and hang strip are pre-hinged
- · Hang strip is pre-drilled
- Top and bottom light blocks included
- Factory automatically makes deductions:
   Width ¼", Height ¼"

#### **Z-Frames**

- Inside mount only
- · Window opening measure only
- · Panel and frame are pre-hinged
- Frame is not pre-drilled
- Standard, Signature, factory automatically makes deductions: Width - 5/16", for Height (see chart on page 18)
- No deduction taken on Tilt-Out Z-Frame, measurement is the same as the window opening (see page 15)

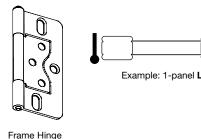
#### L-Frame

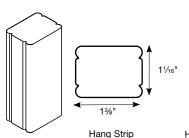
- Recommended outside mount only
- Frame-to-frame measure only
- Panel and frame are pre-hinged
- Frame is not pre-drilled
- · No factory deduction made
  - If using for inside mount or a tight spot, installer must make own deduction for proper fit and order as frame-to-frame

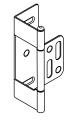
#### **Deco Frame**

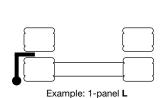
- · Outside mount only
- Frame-to-frame measure only
- · Panel and frame are pre-hinged
- Frame is not pre-drilled
- No factory deduction made
  - If using in a tight spot, installer must make own deduction for proper fit and order as frame-to-frame

NOTE: Frames larger than 115" require splicing.

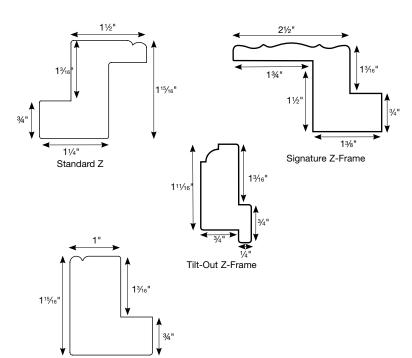






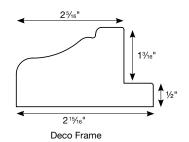


Hang Strip Hinge



Standard L-Frame

11/6



## Composite Frame Product Detail

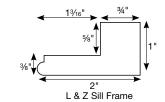
#### Sill Cap

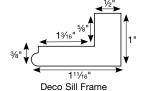
- Available with all frames
- Available with following frame configurations: 3-sided inverted with sill cap bottom, 4-sided with sill cap bottom, 4-sided with sill frame top and sill cap bottom
- Buildout included (1%" x ½")

# 3¾4" Sill Cap

#### Sill Frame

- Offered with L & Z-Frames and Deco frame
- · Not available with Buildouts





#### Sill Frame with Frame

 Sill frame is attached to side frame and joined together via screws



Composite Deco Frame with Sill with Sill



Composite L-F with Sill

#### **Light Block**

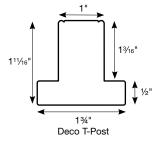
Included with hang strip, direct mount,
 2-sided, and 3-sided frame types

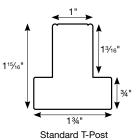


Light Block

#### **T-Post**

- Vertical post that divides the shutter into multiple sections
- · T-Post pre-drilled by factory





#### Buildout

- Used with L-Frames and Deco Frames
- Available only in 1/2" increments
- Maximum 2" (4 pieces) per shutter
- Not available with sill configurations



Buildout
(Maximum of 2", (four pieces)
per shutter; ½" increments)

2<sup>15</sup>/16

NOTE: Frames larger than 115" require splicing.

## **Deductions For Frame Allowances**

#### **Direct Mount**

- Automatically taken at factory
- Width deduction 1/4"
- Height deduction 1/4"

#### **Hang Strip**

- · Automatically taken at factory
- Width deduction 1/4"
- Height deduction 1/4"

## **Z-Frame (Standard and Signature)**

• Automatically taken at factory

Z-Frame Configuration	Frame Width Deduction	Frame Height Deduction				
2-Sided	- <sup>5</sup> / <sub>16</sub> "	No deduction*				
3-Sided or 3-Sided Inverted	- <sup>5</sup> / <sub>16</sub> "	- <sup>5</sup> / <sub>32</sub> "*				
3-Sided Sill Top or Bottom	- 5/16"	- 1/16"*				
4-Sided	- 5/16"	- 5/16"				
4-Sided Sill Top or Bottom	- <sup>5</sup> / <sub>16</sub> "	- <sup>5</sup> / <sub>32</sub> "				
4-Sided Sill Top and Bottom - 5/16" - 1/16"						
*Using this deduction, panel clearance on open ends of frame will automatically be 1/8".						

**NOTE:** Factory makes no deductions on Tilt-Out Z-Frames, the measurement is the same as the window opening (see page 15). You must take your own deductions on Tilt-Out Z-Frames.

#### L-Frame

- No deductions taken at factory
- If using for inside mount or in a tight spot, installer must make own deduction for proper fit and order as frame to frame

#### **Deco Frame**

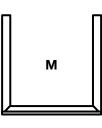
- No deduction taken at factory
- If using in a tight spot, installer must make own deduction for proper fit and order as frame to frame

△GRABER 18

## **Composite Frame Configurations** 2-Sided 4-Sided with Sill Bottom Hang strip and direct mount with inside mount is available only in 2 В 2-sided frame (vertical). We will provide the light block at no charge for hang strip with inside mount. 3-Sided 4-Sided with Sill Top Light block included at no charge. T 3 4-Sided 3-Sided Inverted Light block included at no charge. 3-Sided with Sill Top 4-Sided with Sill Top and Bottom Light block included at no charge. Р Н 4-sided with sill top 3-Sided Inverted with and sill cap bottom Sill Bottom Light block included at M Α

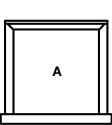
no charge.

3-sided inverted with sill cap bottom



Ε

4-sided with sill cap bottom



C

NOTE: Direct mount includes 4 light blocks at no charge.

NOTE: Sill Cap is made of wood only.

## **Installation Hardware**

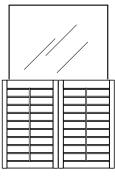
#### Included with order

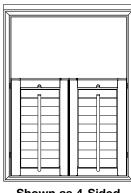
- Hinge pins
- Installation screws (hinge, mounting, etc.)
- Hoffman keys

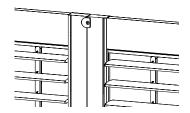
## Available upon request - contact Customer Service

- Hinge shims
- Louver pins
- Screws
- Screw caps (cover exposed screw heads)

## Café Shutters







Shown as 2-Sided

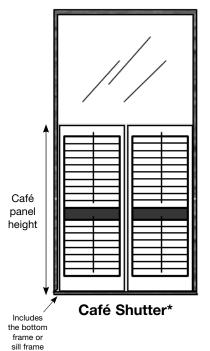
Shown as 4-Sided

Rear view of Café Panel Optional:

Café Aligning Catch

- · Tops of composite panels are not finished and are not recommended
- · Café shutter panels cover the lower portion of the window
- Pricing is based on width x café panel height
- Optional Café Aligning Catch
- Frame can be ordered to stop at panel height or can be ordered to fully frame the window

**Order entry tip:** When ordering frames to stop at panel height: 3-sided, 3-sided sill top, or 4-sided with or without sill configurations must be entered as standard shutters. 2-sided, 3-sided inverted, and 3-sided inverted sill bottom can be entered as cafe with panel and frame height the same size.



Café is available in a variety of frames, both inside and outside mount.

- Measure format depends on frame type selected
- For **direct mount**, use 'window opening' size (WO) and no frame is furnished **NOTE**: Panel will be 1/8" smaller than café panel height ordered for bottom swing clearance
- For hang strip, use 'window opening' size (WO) and hang strip will be the same height as café panel

NOTE: Panel will be 1/8" smaller than café panel height ordered for bottom swing clearance

 For Z-Frame, use 'window opening' size (WO) and frame can be made at same height café panel or be made at window height for 'full-height frame'

**NOTE:** The café panel height ordered will include whatever frame configuration ordered for the bottom. The cafe panel height is the height of the panels will stop at.

 For L-Frame and Deco frame, use 'frame-to-frame' size (F-F) and frame can be made at the same height as café panel or be made at window height for 'full-height frame'
 NOTE: The café panel height ordered will include whatever frame configuration ordered for

the bottom. The cafe panel height is the height of the panels will stop at.

<sup>\*</sup>Shown with full window-height frame option.

## **Sunburst Arch Without Frame**

## **Specialty Shape Without Frame: Panel Only**

- Sunburst pattern no horizontal louvers
- Rabbeted louvers for maximum light control
- Louver sizes will vary based on height and width of arch
- The arch has no tilt bar; the louvers open individually and are spring loaded at the bottom pin
- Buildouts not available

- Panel is 1½6" thick and may not match projection of other outside mount standard shutters
- Order arch as frame-to-frame
- Allow sufficient wall space to mount. Panel-only arches that are:

Frameless Arch Base Width	Top Rail Size	<b>Bottom Rail Size</b>
24" to less than 45"	2"	1"
45" to less than 72"	3"	2"
45" to less than 80"	3"	3"

NOTE: If mounting arch inside, take own deduction and order frame-to-frame. Template recommended.

Specialty Shape Without Frame: Minimum and Maximum Sizes							
Frame	eless - Panel Only	Wi	dth	Hei	ght		
Frante	eless - Fallei Olliy	Minimum	Maximum	Minimum	Maximum		
Height	Perfect Sunburst Arch (order as Eyebrow) Height = 50% of width No templates required.	20"	72"	10"	36"		
Height	Eyebrow Sunburst Height Minimum = no less than 33% of width Height Maximum = no greater than 66% of width Template required if height exceeds 54% of width.	20"	72"	7"	36"		
H1 Height H2 Width	Elongated Sunburst  Height Minimum = no less than 33% of width Height Maximum = no greater than 66% of width Template required if ordered height minus ordered leg height exceeds 54% of width.	20"	72"	10"	47½"		
Height	Elliptical Sunburst Template is always required.	20"	72"	7"	36"		
Height	Palladian Height Minimum = no less than 33% of width Height Maximum = no greater than 66% of width No template required, additional measurements required. (see order form)	20"	72"	10"	47½"		
Height Width	1/4 Eyebrow Sunburst Arch Leg minimum = 33% of width Leg maximum = 108% of width	15"	36"	7"	36"		
Height Holpt Width	1/4 Elongated Sunburst Arch Leg minimum = 33% of width Leg maximum = 132% of width	15"	36"	10"	47½"		

21

Sunburst Arc	Sunburst Arch With Frame							
Frame Options	Z-Frames*	L-Frames	Deco Frame					
Mount	Inside Mount Only	Outside Mount Only	Outside Mount Only					
Order Size	Window Opening	Frame-to-Frame	Frame-to-Frame					
Projection	3/8"	2"	<b>1</b> <sup>11</sup> ⁄/ <sub>16</sub> "					

<sup>\*</sup>Framed arches not available with Tilt-Out Z-Frame.

NOTE: All frame types are available with sill bottom Buildouts are available on L-Frame and Deco frame arches (except with sill bottom)

Framed Full and ¼ Sunburst Arches			Wi	dth	Height	
F	Tameu Full and 14 Sumburst Arches		Minimum	Maximum	Minimum	Maximum
	Perfect Sunburst Arch	Z-Frame	2113/16"	7313/16"	<b>11</b> <sup>13</sup> / <sub>16</sub> "	37¹³⁄₁6"
Height	Height = 50% of width No templates required.	L-Frame	221/8"	741/8"	121/%"	381/8"
Width —	ivo tempiates required.	Deco Frame	24¾"	76¾"	14¾"	40¾"
	Eyebrow Sunburst	Z-Frame	2113/16"	73¹¾16"	813/16"	37¹³⁄₁6"
Height	Height Minimum = no less than 33% of width Height Maximum = no greater than 66% of width	L-Frame	221/18"	741/8"	91/8"	381/8"
✓ Width →	Template required if height exceeds 54% of width.	Deco Frame	24¾"	76¾"	11¾"	40¾"
	Elongated Sunburst Height Minimum = no less than 33% of width	Z-Frame	2113/16"	7313/16"	<b>11</b> <sup>13</sup> ⁄ <sub>16</sub> "	49¹³⁄₁6"
HI Heigh	Height Maximum = no less than 35% of width Height Maximum = no greater than 66% of width Template required if ordered height minus	L-Frame	221/%"	741/8"	121/%"	491/8"
Width Width	ordered leg height exceeds 54% of width.	Deco Frame	24¾"	76¾"	14¾"	51¾"
	EII: 1: 10 1	Z-Frame	2113/16"	7313/16"	813/16"	37¹³⁄₁6"
Height	Elliptical Sunburst Template is always required.	L-Frame	221/8"	741/8"	91/8"	381/8"
Width		Deco Frame	24¾"	76¾"	11¾"	40¾"
	Palladian	Z-Frame	2113/16"	73¹¾16"	813/16"	49¹³⁄₁6"
Height	Height Minimum = no less than 33% of width Height Maximum = no greater than 66% of width No template required, additional measurements	L-Frame	221/8"	741/8"	91/8"	491/8"
<b>←</b> Width <b>←</b>	required. (see order form)	Deco Frame	24¾"	76¾"	11¾"	51¾"
	1/ Evolvou Suphurat Arab	Z-Frame	1613/16"	37¹¾16"	8¹¾16"	37¹³⁄₁6"
Height	1/4 Eyebrow Sunburst Arch Leg minimum = 33% of width	L-Frame	171/8"	381/8"	91/8"	381/%"
Width →	Leg maximum = 108% of width	Deco Frame	21¾"	40¾"	11¾"	40¾"
	1/4 Elongated Sunburst Arch	Z-Frame	1613/16"	3713/16"	<b>11</b> <sup>13</sup> ⁄ <sub>16</sub> "	491/16"
Height H2	Leg minimum = 33% of width	L-Frame	171/8"	381/8"	121/8"	495/8"
Width	Leg maximum = 132% of width	Deco Frame	21¾"	40¾"	14¾"	51¾"

△ GRABER 22

# How To Make A Template (Recommended For Inside Mount Frameless Arches - Required For Elliptical Arches)

- 1. Tape paper over the window opening, allowing plenty of overlap. See below for template material information.
- 2. If your arch has a frame that requires a window opening measurement, draw an exact outline of the window opening. Manufacturing will take a deduction for proper fit. Be careful not to press in or crease the paper of the template while tracing. If your arch is frameless or has a frame that requires a FF measurement, make template to the finished size you need. Your arch will be made to this size.
- Remove the paper from the window opening and cut out the arch.
- Place the template back on the window opening to verify size.
- 5. Mark the template with the following:
  - Room Side
  - Purchase Order Number
  - · Customer's Name
  - Company Name and Account Number
  - Frame-to-frame measurement (width) of shutter panels below the arch if applicable
- 6. Attach a copy of the purchase order to the template.
- 7. Roll the template and place it in a mailing tube.
- 8. DO NOT FOLD THE TEMPLATE!

9. Mail to:

Springs Window Fashions 8467 Route 405 South P.O. Box 500 Montgomery, PA 17752

Attn: Shutter Department

## Acceptable Materials for Making a Template\*

- · Kraft type paper
- Butcher paper
- Lightweight poster paper that can be rolled without creasing

#### Non-Acceptable Materials for Making a Template

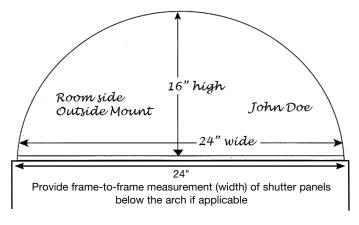
- Newspaper
- · Wrapping paper
- Tissue paper
- Fabrics
- Wood
- Wax paper

If the material used to make a template stretches, tears easily, will not lay flat after being rolled, or will mark the product in any way, Springs Window Fashions will refuse to use the template and require a new one.

\*Use only tape that will not pull off paint or wallpaper.

NOTE: Comment on Purchase Order if a template is being sent, otherwise order will be processed without.

Manufacturer will not add to template size. Provide finished size for frameless arches or a framed arch that requires a FF measurement. Manufacturer will deduct from Z-Frame template size.

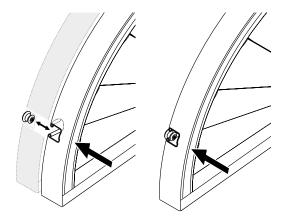


#### Must note on template:

- Purchase Order Number
- Customer's Name
- Job Number
- Store Number/Account Number

## **Sunburst Arch: Installation Method**

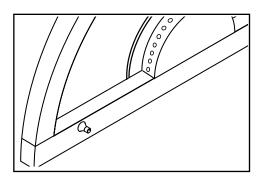
Arches arrive with the louvers not installed and packed separately. Louvers are numbered on bottom edge from right to left on the bottom as you look at the interior (room) side.



## Framed Arch - Installing Panel to Frame

Button catch (imbedded) is standard. Panels are attached to frame via button catch. The frame itself installs as a standard L, Z or Deco Frame.

## **Frameless Arch Installation Options**



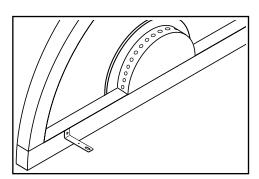
#### **Bulldog Catch**

Bulldog catch works best with window openings that have a square edge. Allows arch panel to be removed for cleaning. Available in White.



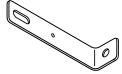
Suggested quantity usage: Less than 36" - 3

36" to 72" – 5



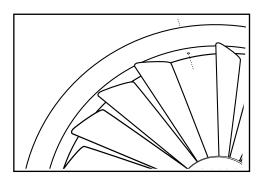
#### L-Bracket

L-bracket works best with windows that have a bull-nosed edge. Long-throw on the L-bracket allows you to reach past the curved window edge to a flat surface. L-bracket is zinc color only.



Suggested quantity usage: Less than 36"-5

36" to 72" - 7



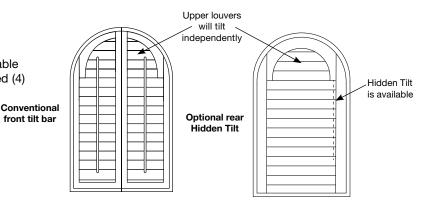
#### **Trim Head Screw**

If using trim head screws to mount, pilot a hole diagonally from underside of curved frame and exit through rear of frame. Place screw hole near louver pin to help hide hole from view.



## **Arch And Angle Top Panel Shutters**

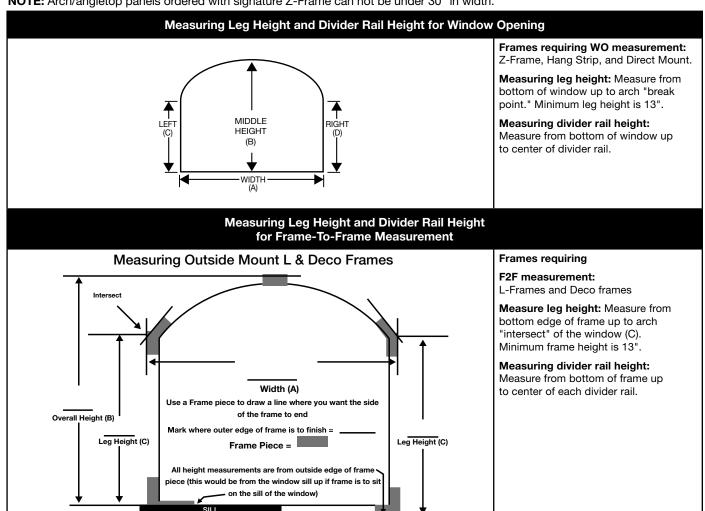
- 2½", 3½" & 4½" louvers available
- Astragal, Hidden Tilt and Split Tilt available
- NOTE: Hidden Tilt only tilts up
- All frames except Tilt-Out Z-Frame available
- All panel configurations in standard shutters available
- Available frame configurations: 3-Sided (3), 4-Sided (4) and 4-Sided with Sill Bottom (B)
- Split Tilt and divider rails will have +/- 2" tolerance
- Buildouts available for L-Frame, Deco Frame and Arch Without Sill Frame



#### Louver Tilt is restricted up to 90° (degrees)

Louver tilt is restricted up to 90° (degrees) due to the curvature (or slope) at the top of the panel. A divider rail can be used to separate the upper arch portion from the lower rectangular portion. This will allow for full louver rotation of the louvers below the divider rail.

NOTE: Arch/angletop panels ordered with signature Z-Frame can not be under 30" in width.



NOTE: Divider rail requirements are the same as standard shutters. One divider rail available on arches/angles. Template required when the ordered height minus the leg height is over 54% of the width.

## Arch And Angle Top Panel Shutters - Minimum/Maximum Height

See chart on pages 9 and 10 for width minimums and maximums.

Ordered Height Limitations for Arch and Angle Top Shutters						
	Frame Configuration	Frame type	Minimum	Maximum		
Window Opening	2-sided 3-sided 4-sided with sill bottom 4-sided	Hang strip/direct mount Z-Frames Z-Frames Z-Frames	15¼" 16⅓°" 16½" 16⁵%°"	96½" 97½" 97½" 97½"		
Frame-to-Frame	3-sided 4-sided with sill bottom 4-sided 3-sided	L-Frame L-Frame L-Frame Deco Frame	16%" 16%" 17%e" 17%e"	97¼" 97%" 98¼" 98%"		
	4-sided with sill bottom 4-sided	Deco Frame Deco Frame	17¹⁵⁄₁₅" 19%"	98¹⁵⁄₁₅" 100%"		

**NOTE:** Minimum leg height is 13" on arch top and angle top panels.

## **French Door Shutters**

- 21/2" and 31/2" louvers
- Hide-a-Tilt™, Split Tilt and Double Mouse Hole available
- · Single panels hinged on the same side as the door
- Standard L-Frame only
- Order frame-to-frame
- · Outside mount only

Projection Based on Louver Size	Frame	Buildout
2½"	2" L-Frame	0"
3½"	2" L-Frame	1/2"

- · Divider rails are not available
- Button catches plus magnets are standard to provide for a secure closure
- Factory will automatically add build outs based on your louver size. See chart below
- Split Tilt will have +/- 2" tolerance from requested location

Manufacturing will automatically add Buildouts to your order according to the louver size. An additional  $\frac{1}{2}$ " or 1" can also be requested if needed for louver clearance on larger trims. Factory will also make all adjustments to back plate elevation based on trim projection and extra Buildout requested.

NOTE: All French Door shutters for Cut-Out and no Cut-Out should be ordered at the same time.

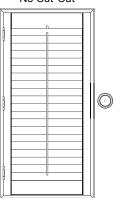
## French Door Shutters: Minimum/Maximum French Door Sizes

	Minimum	Maximum
Width	14"	2913/16"
Height	341/%"	861/4"

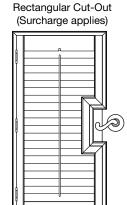
△ GRABER 26

## **French Door Shutters: Cut-Out Options**

L-Frame No Cut-Out



This should only be ordered when installed next to a French door with Cut-Out, otherwise order it as a standard shutter.



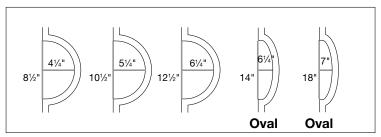
Curved Cut-Out (Surcharge applies)

#### **Order Rectangular Cut-Out when:**

- 1. Choose if the base of the door hardware is rectangular.
- Must specify width and height of the Cut-Out. There are no set standard sizes to conform to. There are no templates to use.
- Be sure to make proper allowances for the door handle to pivot easily when determining your Cut-Out size.

#### Order a Curved Cut-Out when:

- 1. Choose a Cut-Out if the base of the door handle (or knob) is round.
- 2. Five (5) standard Cut-Out sizes are available: Three (3) half-circles and two (2) half-ovals.
- 3. Other custom sizes of curved Cut-Outs are not available.
- 4. Be sure to make proper allowances for the door handle to pivot easily when determining your Cut-Out size.

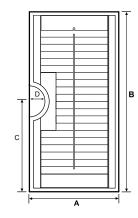


This image is taken from the backside of the French door order form.

# E D B

## **Rectangular Cut-Out**

- A= Shutter Width
  - Frame-to-frame
- B= Shutter Height
- Frame-to-frame
- **C**= Bottom of shutter frame to bottom of Cut-Out
- **D=** Width of Cut-Out
- E= Height of Cut-Out

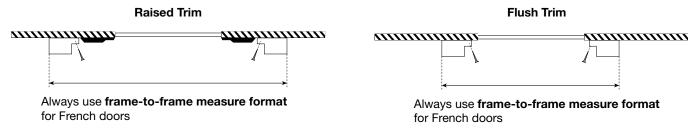


#### **Curved Cut-Out**

- A= Shutter Width
  - Frame-to-frame
- **B=** Shutter Height
  - Frame-to-frame
- **C**= Bottom of shutter frame to center of Cut-Out

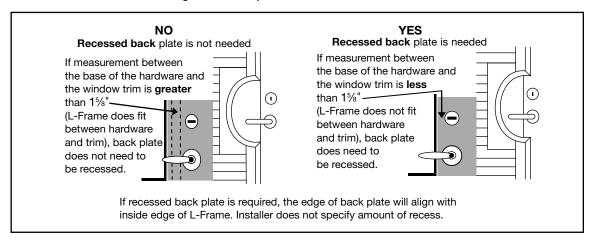
## French Door Shutters: Placement of L-Frame

L-Frame always sits outside of the trim, never on the trim. If no raised trim, place the L-Frame far enough beyond the glass to rest totally flat on the door and to avoid risk of breaking the glass when driving the mounting screws in place. Use caution when placing screws, as the glass often extends under the trim and could easily crack.



## French Door Shutters: Recessed Back Plate

A "recessed back plate" is required when there is insufficient space between the base of the door hardware and the glass trim to place L-Frame flat on the door surface.



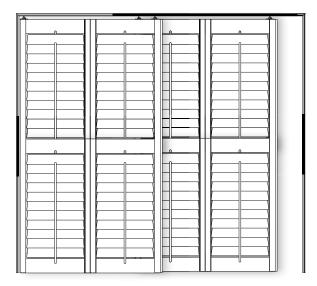
#### Caution:

- 1. When measuring (F-F) width and height, be sure that L-Frame can rest flat on the door surface and not be obstructed by the glass trim.
- 2. If "yes" is selected, the edge of the recessed back plate will be built to align with the inside edge of the L-Frame (as shown by the dotted line in the upper drawing).

## **Bypass Shutters**

- Ideal solution for large windows and patio doors
- System consists of a double-top track and floor guides (no bottom track)
- Available in all louver sizes
- Available with Hide-a-Tilt™ and Split Tilt
- · Available with Double Mouse Hole
- See the Minimum and maximum order sizes charts (Factory to determine panel size based on width ordered and configuration.)
- Panel made composite headers, box out and valance made of wood and painted to match
- Divider rail required over 72" ordered height
- Tracks wider than 144" will be spliced

- Header and valance could be spliced over 96"
- · Mounting Options:
  - Outside mount with or without box-out (box-out recommended)
  - Inside mount, minimum window depth 5%"
  - Exact frame-to-frame with box-out
- All mounting options:
  - Track and header Board: Unit includes 2 tracks installed to header. Header is 5½" deep and ¾" thick
  - Valances: 2 top treatment styles available
     5" double beaded standard valance
     4½" decorative valance (optional)
  - Outside mount is available with stack back or custom header (see page 33 for details)



**NOTE:** Louvers must be closed in order for panels to pass each other.

## **Valance Options**

#### 4½" Decorative Valance (Surcharge applies)



#### 5" Standard Valance



## **Bypass Shutters: Mounting Options**



## **Outside Mount - with Factory Additions**

Width Measure (with box-out): If no window trim: measure window opening size. If window trim: measure outside edge of trim to outside edge of trim and record as window opening size. Regardless of order size, factory will add 3½" to your overall ordered width. Note: when measuring, add more for bullnose drywall so that frames mount completely on flat surface.

Width Measure (without box-out): If no window trim: measure window opening size. If window trim: measure outside edge of trim to outside edge of trim and record as window opening size. Regardless of order size, factory will add 1½" to your overall ordered width. Note: when measuring, add more to extend beyond window edge for more privacy.

Height Measure (with or without box-out): If no window trim: measure from floor surface to top of the window opening. If window trim: measure to top of window trim.

Regardless of order size, factory will add 2%" to your overall ordered height.

Other Measuring Considerations: ½" Buildout is available.

**Valance Information:** Valance returns are included and wrap around the outside of the box-out if ordered. Returns are mitered. (Special valance width and return width available.)

**Box-Out Information:** Optional side frames are 5½" deep and ¾" thick.

**Stack Back Information:** Optional to allow shutter panels to clear the window opening, factory will calculate based on ordered size. Custom/special header board size is also available if full stack back cannot be achieved.

## **Outside Mount - Exact Frame-to-Frame**

**Width and Height Measure:** Factory will not add or deduct from ordered size – measure width and height as finished frame-to-frame size including the box-out. Only available with box-out.

Other Measuring Considerations: ½" Buildout is available.

**Valance Information:** Valance returns are included and wrap around the outside of the box. Returns are mitered. (Special valance width and return width available.)

**Box-Out Information:** Required box-out side frames are 5½" deep and ¾" thick.

Stack Back Information: Stack back and custom/special header board size is not available.



## **Inside Mount – with Factory Deductions**

**Width Measure:** Order window opening width and factory will make a  $\frac{1}{2}$ " deduction off the track for proper fit.

**Height Measure:** Order window opening height and factory will make a  $\frac{1}{2}$ " deduction. The carriers are adjustable.

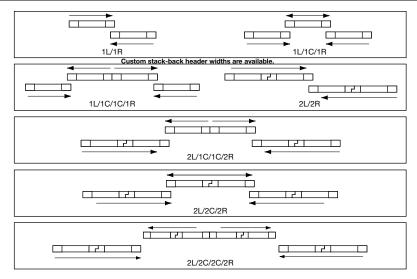
Other Measuring Considerations: Minimum window depth required 5%." No Buildouts available.

**Valance Information:** Special valance width available. Valance returns and special return width not available.

Box-Out Information: Not available.

Stack Back Information: Stack back and custom/special header board size is not available.

## Bypass Track System Configuration Options - Only Configurations Available



Bypass Shutter: Minimum/Maximum Width Order Sizes By Panel Configuration							
		Outside Mount w/ Additions		Inside Mount		Outside Mount-Exact	
		Order W-O Size		Order W-O Size		Exact Frame-to-Frame	
Panel Configuration	Example of shutter unit configurations using various panel combinations	Minimum Width	Maximum Width	Minimum Width	Maximum Width	Minimum Width	Maximum Width
1L / 1R		18"	58"	20"	59"	19¼"	6111/4"
1L / 1C / 1R*		27½"	86"	28½"	88½"	27¾"	90¾"
1L/1C/1C/1R		37"	117"	38"	118"	36¼"	1201⁄4"
2L / 2R		37¾"	117¾"	38¾"	118¾"	36"	121"
2L / 1C / 1C / 2R*		56"	176"	581/8"	177"	54¼"	180¼"
2L / 2C / 2R*		57½"	1771/8"	581/8"	1771⁄4"	54¼"	180¼"
2L/2C/2C/2R		76½"	236½"	77½"	237½"	<b>71</b> <sup>13</sup> ⁄ <sub>16</sub> "	23913/16"

<sup>\*</sup>Window opening is 33% with these panel configurations. Stack back or custom header recommended.

Same minimum/maximum sizes apply if ordered with stack back options and with or without box-out.

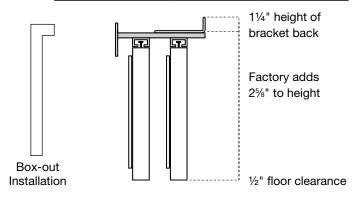
**NOTE:** Combinations with a 2C, 2L or 2R will be rabbeted together and move as one unit.

# **SETTING BRACKET HEIGHT** (for outside mount without side frames)

For Wall Mount Bypass Shutter System Top of Angle Bracket to Floor:

Top of bracket will be 3% above ordered height. This includes  $1\!\!/\!\!2$  " clearance off the floor.

Composite Bypass Height Minimum and Maximum					
Options	otions Minimum Maximum				
Outside mount	15%"	96%"			
Inside mount	171/4"	981/4"			

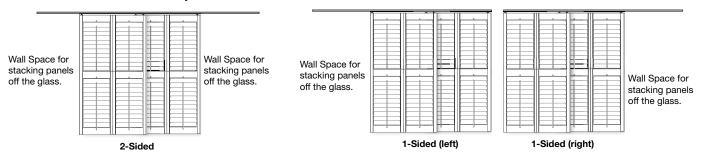


**NOTE:** With optional box-out, side frames determine the mounting height. Bottom edge of side frame is meant to touch the floor surface.

## **Bypass Track System**

#### **Stack Back Option**

**Outside Mount Only** 



The stack back option allows for the shutter panels to clear the window opening, creating an unobstructed view.

Panels made to cover window. Header/track made larger so panels stack off glass.

Measure only the window opening area for outside mount with stack back. Factory will calculate the correct stack back needed for full stack back. Custom header also available.

System consists of a double-top track and floor guides

Calculating Approximate Stack Back: Factory will add additional width to ordered size for stack back. Amounts vary, depending on the number of panels. See chart below for total (approximate) amount that will be added to the window opening size. This determines the approximate overall unit width.

% of Window Opening Size Added for Various Numbers of Panels				
2	3 4 6 8			
50%	66%	50%	66%	50%

## **Custom Header**

If wall space is not available for complete stack back, custom header size may be ordered. Give window opening size and custom header size.

- Panels will be built to cover the window opening size
- The track, header, and valance will be built to the custom size requested
- · Available on outside mount with additions only

**Ordering Entry Tip:** Enter the opening size as the ordered width. Choose "no" for stack back and then place desired finished size in the custom header field.

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## **General Information**

## **Definitions**

**Aligning Catch** – Concealed magnet and catch plate on back top side of the café panels. Used to provide a flush panel alignment.

**Astragal** – Covers clearance gap between two panels for the purpose of eliminating light gap. Integral to stile.

**Bi-fold** – Two panels are hinged together to lie flush against the window or wall.

**Bi-fold Track System** – Two or more hinged panels on a track. Panels do not lie flush against the window or wall.

**Box-out Frame** – Track system frame option that creates an outside mount application consisting of a three-sided frame with or without a decorative valance.

**Buildout** – Used in conjunction with L-Frames and Deco Frames to move panels away from window, allowing additional clearance for louvers to open.

**Bypass Track System** – Two or more panels on two overhead track that slide and pass each other.

**Café Style Shutters** – Cover the lower portion of an opening. They can be made to any height within product specifications.

**Direct Mount** – Mounting the shutter panels directly to the window casing.

**Divider Rail** – A rail that divides the shutter panel into two horizontal sections. It is used to add strength to a tall panel or add a decorative touch.

**Double Mouse Hole** – Recess on the top and bottom rail allowing for the louvers to be completely closed in either direction. Close in upward position for optimal closure.

**Guide** – Component part used with bypass configurations to lead the panels so that they do not project into the room.

**Hang Strip** – The mounting frame that is used for inside mount shutter panels.

**Inside Mount** – A shutter that is mounted on the inside of an opening.

**Light Block** – Square rail that blocks light between the window sill and the shutter panel, used with direct mount, hang strip, 2-sided frames and 3-sided frames.

**Louvers** – The movable fins inside the shutter panel.

**Mouse Hole** – Recess in the top rail of the panel that the lift rod rests in when the louvers are completely closed. Standard is single mouse hole.

**Outside Mount** – A shutter that is mounted on the outside of an opening.

**Panel** – The part of the shutter that consists of a set of louvers, two rails and two stiles.

**Rabbet Stile** – A special cut on the stiles that allows the panels to overlap. Helps control light penetration between the panels.

**Rails** – The top and bottom solid portions of a panel that frame the louvers.

**Square Window** – Diagonal measurements must be within ¼" difference. Windows that are not square will need to have the shutter mounted to the outside of the window opening.

**Stack Back** – Configuration that allows the panels of the bypass or bi-fold track system to completely slide beyond the window opening.

**Stile** – The vertical portion of the panel frame to which the louvers are anchored.

**Strike Off** – Sample color swatch to be approved prior to the production of the order.

**Tilt Bar** – A vertically mounted bar located on the front of the shutter used to open and close the louvers.

**T-Post** – A vertical post that divides the shutter into multiple sections (used with wider shutters).

**Window Depth** – The distance from the surface of the wall to the closest part of the window (examples: latch, crank, frame, etc.).

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## **General Information**

## Warranty

#### LIMITED LIFETIME WARRANTY

Springs Window Fashions warrants your Shutters will be free from original defects in materials or workmanship for as long as the original purchaser owns the product. Under the Limited Lifetime Warranty, the obligations of Springs Window Fashions are limited to the repair or replacement of parts or product found to be defective. Springs Window Fashions is not responsible for shipping costs or labor costs for measuring and taking the product down or reinstalling the product. If repairs are made under this warranty, the repairs will be made with like or similar parts.

This warranty does not cover conditions or damages caused by accidents, alterations, misuse, exterior use, or failure to follow instructions for measurement, installation, cleaning or maintenance. In addition, normal wear and tear are not covered by the Limited Lifetime Warranty.

Some wood materials may warp in high humidity areas. Springs Window Fashions considers these occurrences normal wear and tear and they are not covered by this warranty.

#### **LIMITATION OF DAMAGES / DISCLAIMER OF WARRANTIES**

THIS LIMITED WARRANTY DOES NOT COVER, AND IS INTENDED TO EXCLUDE, ANY AND ALL LIABILITY OF SPRINGS WINDOW FASHIONS, WHETHER UNDER THIS LIMITED WARRANTY OR UNDER ANY WARRANTY IMPLIED BY LAW, FOR ANY INDIRECT OR CONSEQUENTIAL DAMAGES. EXCEPT AS EXPRESSLY PROVIDED IN THIS LIMITED WARRANTY, SPRINGS WINDOW FASHIONS HEREBY DISCLAIMS ALL WARRANTIES TO THE EXTENT PERMITTED BY LAW. ANY IMPLIED WARRANTIES THAT CANNOT BE DISCLAIMED ARE, TO THE EXTENT PERMITTED BY LAW, LIMITED IN DURATION TO FIVE (5) YEARS.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the foregoing limitation or exclusion may not apply to you. This Limited Warranty gives specific legal rights, and you may also have other rights that vary from state to state. No person is authorized to extend or alter this Limited Warranty.

#### **WARRANTY SERVICE**

Warranty claims must be accompanied by the original sales receipt as well as details regarding the nature of the problem, location of the product, etc. If your product is returned, please retain a copy of the shipping information for your records.

To obtain warranty service contact:

Customer Service Center Springs Window Fashions, LLC 8467 Route 405 Highway South PO Box 500 Montgomery, PA 17752-0500

You may also email windowfashions@springswindowfashions.com or call 1-877-675-0089

## **Care Instructions**

Occasional light vacuuming with a brush attachment should keep shutters clean. More severe soiling can be removed by using a soft cloth and a mild detergent and water solution.

# **Pricing**

## **Composite Shutter Pricing**

#### **Composite Pricing:**

Frame Type	Reynosa Manufacturing (10 working days to ship)	Asian Manufacturing (7 weeks to deliver)
Hang Strip, Direct Mount	\$47.50 per sq. ft. \$47.50 per sq. ft. \$47.50 per sq. ft.	\$41.50 per sq. ft. \$42.50 per sq. ft. \$42.50 per sq. ft. \$42.50 per sq. ft. N/A
Additional Surcharges Arch & Angle Panel Shutters Bi-fold/Bypass Box-out* Bi-fold/Bypass Stack Back* French Door Cut-Out** Hide-a-Tilt™ Bar Sunburst Arches (Frameless) Sunburst Arches (Framed)	15% 5% \$416.00 10% \$117.00 per sq. ft.	

<sup>\*</sup>Calculate overall square feet of bypass. Use overall square foot price to calculate surcharge for box-out and stack back.

**NOTE:** Composite shutter sunburst arches, composite arches and angled panel shutters, and french door cut-outs are manufactured in Asia with an 8 week lead time.

#### **Composite Characteristics**

• Made with PVC base with calcium carbonate and other fillers

- · Perfect for high-humidity areas
- · Color will not fade
- · Easy cleaning with mild detergent and water

Panel Size Limitations	Minimum		Maximum		
Panel Size Limitations	2½" 3½"	4½"	2½" 3½"	4½"	
Single Panel Width (Reg.)	9"	9"	30"	26"	
Single Panel Width (Bi-fold)	9"	9"	24"	24"	
Panel Height	15"	15"	96"	96"	

<sup>\*\*</sup>Calculate the overall square footage of the French Door panel using the L-Frame price; then add the surcharge



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